

**JFROG HELP CENTER**

**JFrog REST APIs**

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## 1 | JFrog REST APIs

This documentation includes information needed for REST API automation with the JFrog Platform for all JFrog products.

- Artifactory REST APIs
- Artifactory REST API V2
- JFrog Platform REST APIs
- Introduction to the Xray REST APIs
- Distribution REST APIs
- Pipelines REST APIs
- Mission Control REST APIs
- Artifactory Query Language
- GraphQL

### Tip

To view the REST APIs for each product, select the product from the list above or from the table of contents on the left. The relevant APIs will appear in the table of contents on the right.

## 2 | Artifactory REST APIs

This documentation includes all the REST APIs for JFrog Artifactory and includes the following sections:

- Introduction to the Artifactory REST APIs
- BUILDS
- ARTIFACTS & STORAGE
- RELEASE LIFECYCLE MANAGEMENT
- EVIDENCE
- COLD STORAGE
- SEARCHES
- ARTIFACTORY SECURITY
- REPOSITORIES
- FEDERATED REPOSITORIES
- LOGGERS
- RELEASE BUNDLES V1
- PLUGINS
- IMPORT & EXPORT
- RETENTION
- ERROR RESPONSES
- Replication Configuration JSON
- Repository Configuration JSON
- Build Artifacts Request JSON
- Security Configuration JSON
- System Settings JSON

## 2.1 | Introduction to the Artifactory REST APIs

Artifactory provides a convenient and up-to-date self-descriptive API that can be used by various tools/frameworks to automate the creation of REST calls.

### Usage

### Important

With the release of Artifactory 7.49.3, the REST APIs for all JFrog Platform functions - APIs that are not specific to Artifactory - have been moved to a dedicated section, [Introduction to the JFrog Platform REST APIs](#)

These include the following sections:

- XRAY
- SUPPORT
- ACCESS
- PROJECTS
- WEBHOOKS
- ROUTER

The Platform API page also contains the new SECURITY REST APIs (Users and Groups), which will eventually replace the Artifactory Security REST APIs.

# JFrog REST APIs Displayed in the header

Artifactory REST API endpoints can be invoked in any of the standard ways to invoke a RESTful API. This section describes how to use the Artifactory REST API using cURL as an example.

## Using and Configuring cURL

/repo-key/path/to/artifact.ext

You can download cURL here. Learn how to use and configure cURL here.

### Authentication

Artifactory's REST API supports these forms of authentication:

- Basic authentication using your username and password

### Warning

Basic authentication is not considered secure and is not recommended.

- Using an access token instead of a password for basic authentication
- Using an access token as a bearer token in an authorization header (Authorization: Bearer) with your access token
- For MyJFrog authentication, see Generate a Token in MyJFrog

### Artifactory version

To use your API key for **Basic Authentication**, it must be generated using Artifactory 4.4.3 or later. If generated on a previous version, you **must** regenerate your API key and use the new key as a password for basic authentication.

Note that from Artifactory 7.47.x, the API Key is being deprecated.

### Using JFrog CLI

JFrog CLI is a compact and smart client that provides a simple interface to automate access to Artifactory. As a wrapper to the REST API, it offers a way to simplify automation scripts making them more readable and easier to maintain, features such as parallel uploads and downloads, checksum optimization, and wildcards/regular expressions make your scripts more efficient and reliable. Please note that several of the functions available through the REST API are also available through JFrog CLI and you should consider which method best meets your needs.

For more details on the download, installation, and usage of JFrog CLI, refer to the [JFrog CLI](#).

### Updating Artifactory System Configuration Files

Artifactory provides a flexible way to configure an existing Artifactory instance using a simple YAML configuration file. Run single or multiple configuration changes as needed, to create, update, and delete any elements in Artifactory. For more information, see [Artifactory YAML Configuration](#).

### Example - Deploying an Artifact

The example below demonstrates how to invoke the Deploy Artifact REST API.

- You are using cURL from the unix command line, and are presently working from the **home (~) directory** of the user **myUser**
- You wish to deploy the file **myNewFile.txt**, which is located in your Desktop directory, (**~/Desktop/myNewFile.txt**)
- You have Artifactory running on your local system, on **port 8081**
- You wish to deploy the artifact into the **my-repository** repository, under the **my/new/artifact/directory/** folder structure, and wish to store the file there as **file.txt**.
- You have configured a user in Artifactory named **myUser**, with password **myP455w0rd!**, and this user has permissions to deploy artifacts
- Your API Key is **ABcdEF**
- Where possible, the same example is demonstrated using JFrog CLI

To deploy the file using your **username and password** for authentication, you would use the following command:

# JFrog REST APIs Displayed in the header

## Using cURL with the REST API

```
curl -u myUser:myP455w0rd! -X PUT "http://localhost:8081/artifactory/my-new/artifact/directory/file.txt" -T Desktop/myNewFile.txt
```

## Using JFrog CLI

```
jfrog rt u file.txt my-repository/my/new/artifact/directory/ --user=myUser --password=myP455w0rd!
```

To deploy the file using your **API Key** for basic authentication, you would use the following command:

## Using cURL with the REST API

```
curl -u myUser:ABcdEF -X PUT "http://localhost:8081/artifactory/my-repository/my/new/artifact/directory/file.txt" -T Desktop/myNewFile.txt
```

## Using JFrog CLI

```
jfrog rt u file.txt my-repository/my/new/artifact/directory/ --apiKey=ABcdEF
```

To deploy the file using your **API Key** in a header, you would use the following command:

## Using cURL with the REST API

```
curl -H "X-JFrog-Art-Api:ABcdEF" -X PUT "http://localhost:8081/artifactory/my-repository/my/new/artifact/directory/file.txt" -T Desktop/myNewFile.txt
```

To deploy the file using your **access token** for basic authentication, you would use the following command:

## Using cURL with an access token

```
curl -u myUser:<Token> -X PUT "http://localhost:8081/artifactory/my-repository/my/new/artifact/directory/file.txt" -T Desktop/myNewFile.txt
```

To deploy the file using your **access token** in a header, you would use the following command:

## Using cURL with an access token

```
curl -H "Authorization: Bearer <Token>" -X PUT "http://localhost:8081/artifactory/my-repository/my/new/artifact/directory/file.txt" -T Desktop/myNewFile.txt
```

## Base URL

The Platform REST URL is constructed of:

```
<JFrog URL>/<Service Context>/
```

For example:

```
# Using your JFrog URL  
http://myjfrod.acme.org/artifactory/  
  
# Using your Artifactory server hostname and port  
http://ARTIFACTORY_SERVER_HOSTNAME:8081/artifactory/
```

## Working with Artifactory Cloud

JFrog Artifactory Cloud offers the same extensive functionality and capabilities for automation as an on-prem installation, including authentication, use of JFrog CLI and the REST API endpoints.

As a Cloud service, the URL is different from an on-prem installation and the REST API endpoints can be reached at:

```
https://<Server Name>.jfrog.io/artifactory/
```

## Example

The snippets below apply the same **Example - Deploying an Artifact** described above to an Artifactory Cloud instance named "myArtifactoryCloud" (instead of to an on-prem installation).

To deploy the file using your **username and password** for authentication, you would use the following command:

## Using cURL with the REST API for Artifactory Cloud

## JFrog REST APIs Displayed in the header

```
curl -u myUser:myP455w0rd! -X PUT "https://myartifactorycloud.jfrog.io/artifactory/my-repository/my/new/artifact/directory/file.txt" -T Desktop/myNewFile.txt
```

### Using JFrog CLI

```
jfrog rt u file.txt my-repository/my/new/artifact/directory/ --user=myUser --password=myP455w0rd!
```

Note that using JFrog CLI is identical with an Artifactory Cloud instance. You only need to configure JFrog CLI with the correct URL for your instance.

## 2.2 | BUILDS

Builds are managed using the following REST APIs:

- All Builds
- Build Runs
- Build Upload
- Build Append
- Build Info
- Builds Diff
- Build Promotion
- Promote Docker Image
- Delete Builds
- Build Rename
- Control Build Retention

### 2.2.1 | All Builds

**Description:** Provides information on all builds.

**Since:** 2.2.0

**Security:** Requires a privileged user (can be anonymous). From version 6.6, requires *read permission* for the build or *basic read*.

**Usage:** GET /api/build

**Query Parameters (optional):**

Field	Type	Description
projectKey	string	Limits the response to the builds contained in the specified project.

**Produces:** application/json (application/.vnd.org.jfrog.build.Builds+json)

**Sample Output:**

```
GET /api/build?project=projectKey
```

```
{
  "uri": "http://localhost:8081/artifactory/api/build"
  "builds" : [
    {
      "uri" : "/my-build",
      "lastStarted" : ISO8601 (yyyy-MM-dd'T'HH:mm:ss.SSSZ)
    },
  ]}
```

## JFrog REST APIs Displayed in the header

```
{  
    "uri" : "/jackrabbit",  
    "lastStarted" : ISO8601 (yyyy-MM-dd'T'HH:mm:ss.SSSZ)  
}  
]  
}
```

### 2.2.2 | Build Runs

**Description:** Provides information about the build runs for the given build name.

**Since:** 2.2.0

**Security:** Requires a privileged user (can be anonymous). From version 6.6, requires *read permission* for the build or *basic read*.

**Usage:** GET /api/build/{buildName}

**Query Parameters (optional):**

Field	Type	Description
projectKey	string	Limits the response to builds contained in the specified project.

**Produces:** application/json (application/vnd.org.jfrog.build.BuildsByName+json)

**Sample Output:**

```
GET /api/build/my-build?project=projectKey  
{  
    "uri": "http://localhost:8081/artifactory/api/build/my-build"  
    "buildsNumbers" : [  
        {  
            "uri" : "/51",  
            "started" : ISO8601 (yyyy-MM-dd'T'HH:mm:ss.SSSZ)  
        },  
        {  
            "uri" : "/52",  
            "started" : ISO8601 (yyyy-MM-dd'T'HH:mm:ss.SSSZ)  
        }  
    ]  
}
```

### 2.2.3 | Build Upload

**Description:** Uploads a build by providing a buildinfo JSON file.

**Security:** Requires a privileged user. From version 6.6, requires *deploy permission* for the build, and *delete permission* for overriding existing build info artifact.

**Note**

All build modules must have the build.name and build.number properties set as well as the correct SHA1 and MD5 to be properly linked in the build info.

**Usage:** PUT /api/build?project=<project> -H "Content-Type: application/json" --upload-file build.json

**Query Parameters (optional):**

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Field	Type	Description
project	string	Limits the response to builds contained in the specified project.

**Consumes:** application/json (application/vnd.org.jfrog.build.BuildsByName+json)

**Example:** curl -XPUT "http://localhost:8082/artifactory/api/build?project=project" -H "Content-Type: application/json" -T build.json

**Sample format:**

```
{
  "properties" : {
    /* Environment variables and properties collected from the CI server.
       The "buildInfo.env." prefix is added to environment variables and build related properties.
       For system variables there's no prefix. */
    "buildInfo.env.JAVA_HOME" : "",
    ...
  },
  "version" : "1.0.1", // Build Info schema version
  "name" : "My-build-name", // Build name
  "number" : "28", // Build number
  - "type" : "MAVEN", // Build type (values currently supported: MAVEN, GRADLE, ANT, IVY and GENERIC)
  - "buildAgent" : { // Build tool information
    - "name" : "Maven", // Build tool type
    - "version" : "3.0.5" // Build tool version
  },
  - "agent" : { // CI Server information
    - "name" : "Jenkins", // CI server type
    - "version" : "1.554.2" // CI server version
  },
  + "started" : "2014-09-30T12:00:19.893+0300", // Build start time in the format of yyyy-MM-dd'T'HH:mm:ss.SSSZ
  - "artifactoryPluginVersion" : "2.3.1",
  - "durationMillis" : 9762, // Build duration in milliseconds
  - "artifactoryPrincipal" : "james", // Artifactory principal (the Artifactory user used for deployment)
  - "url" : "http://my-ci-server/jenkins/job/My-project-name/28/", // CI server URL
  - "vcs" : [ {
    "revision" : "e4ab2e493af369ae7bdc90d69c912e8346a3463",
    "message": "my-message",
    "branch" : "my-branch",
    "url" : "http://my-ci-server/jenkins/job/My-project-name/28/"
  }],
  - "licenseControl" : { // Artifactory License Control information
    - "runChecks" : true, // Artifactory will run automatic license scanning after the build is complete (true/false)
    - "includePublishedArtifacts" : true, // Should Artifactory run license checks on the build artifacts, in addition to the build dependencies (true/false)
    - "autoDiscover" : true, // Should Artifactory auto discover licenses (true/false)
    - "scopesList" : "", // A space-separated list of dependency scopes/configurations to run license violation checks on. If left empty all dependencies from all scopes will be checked.
    - "licenseViolationsRecipientsList" : "" // Emails of recipients that should be notified of license violations in the build info (space-separated list)
  },
  - "buildRetention" : { // Build retention information
    - "deleteBuildArtifacts" : true, // Automatically remove build artifacts stored in Artifactory (true/false)
    - "count" : 100, // The maximum number of builds to store in Artifactory.
    - "minimumBuildDate" : 1407345768020, // Earliest build date to store in Artifactory
    - "buildNumbersNotToBeDiscarded" : [ ] // List of build numbers that should not be removed from Artifactory
  },
  /* List of build modules */
  - "modules" : [ { // The build's first module
    - "properties" : { // Module properties
      - "project.build.sourceEncoding" : "UTF-8"
    },
    - "id" : "org.jfrog.test:multi2:4.2-SNAPSHOT", // Module ID
    - /* List of module artifacts */
    - "artifacts" : [ {

```

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```
- "type" : "jar",
- "sha1" : "2ed52ad1d864aec00d7a2394e99b3abca6d16639",
- "md5" : "844920070d81271b69579e17ddc6715c",
- "name" : "multi2-4.2-SNAPSHOT.jar"
}, {
- "type" : "pom",
- "sha1" : "e8e9c7d790191f4a3df3a82314ac590f45c86e31",
- "md5" : "1f027d857ff522286a82107be9e807cd",
- "name" : "multi2-4.2-SNAPSHOT.pom"
} ],
/* List of module dependencies */
"dependencies" : [ {
- "type" : "jar",
- "sha1" : "99129f16442844f6a4a11ae22fbbee40b14d774f",
- "md5" : "1f40fb782a4f2cf78f161d32670f7a3a",
- "id" : "junit:junit:3.8.1",
- "scopes" : [ "test" ]
} ],
}, { // The build's second module
"properties" : { // Module properties
  "project.build.sourceEncoding" : "UTF-8"
},
"id" : "org.jfrog.test:multi3:4.2-SNAPSHOT", // Module ID
/* List of module artifacts */
"artifacts" : [ { // Module artifacts
- "type" : "war",
- "sha1" : "df8e7d7b94d5ec9db3bfc92e945c7ff4e2391c7c",
- "md5" : "423c24f4c6e259f2774921b9d874a649",
- "name" : "multi3-4.2-SNAPSHOT.war"
}, {
- "type" : "pom",
- "sha1" : "656330c5045130f214f954643fdc4b677f4cf7aa",
- "md5" : "b0afa67a9089b6f71b3c39043b18b2fc",
- "name" : "multi3-4.2-SNAPSHOT.pom"
} ],
/* List of module dependencies */
"dependencies" : [ {
- "type" : "jar",
- "sha1" : "a8762d07e76cfde2395257a5da47ba7c1dbd3dce",
- "md5" : "b6a50c8a15ece8753e37cbe5700bf84f",
- "id" : "commons-io:commons-io:1.4",
- "scopes" : [ "compile" ]
}, {
- "type" : "jar",
- "sha1" : "342d1eb41a2bc7b52fa2e54e9872463fc86e2650",
- "md5" : "2a666534a425add50d017d4aa06a6fca",
- "id" : "org.codehaus.plexus:plexus-utils:1.5.1",
- "scopes" : [ "compile" ]
}, {
- "type" : "jar",
- "sha1" : "449ea46b27426eb846611a90b2fb8b4dcf271191",
- "md5" : "25c0752852205167af8f31a1eb019975",
- "id" : "org.springframework:spring-beans:2.5.6",
- "mandma"scopes" : [ "compile" ]
} ]
}, {
/* List of issues related to the build */
"issues" : {
"tracker" : {
- "name" : "JIRA",
- "version" : "6.0.1"
},
- "aggregateBuildIssues" : true, //whether or not there are issues that already appeared in previous builds
- "aggregationBuildStatus" : "Released",
"affectedIssues" : [ {
- "key" : "RTFACT-1234",
- "url" : "https://www.jfrog.com/jira/browse/RTFACT-1234",
- "summary" : "Description of the relevant issue",
- "aggregated" : false //whether or not this specific issue already appeared in previous builds
}, {

```

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```
- "key" : "RTFACT-5469",
- "url" : "https://www.jfrog.com/jira/browse/RTFACT-5678",
- "summary" : "Description of the relevant issue",
- "aggregated" : true
} ]
},
}
}

+=mandatory; -=optional
```

### 2.2.4 | Build Append

**Description:** Modifies an existing build by appending one or more new modules to it.

**Security:** Requires Deploy and Delete permissions for the specified build.

**Usage:** POST /artifactory/api/build/append/{buildName}/{buildNumber}

**Path parameters:**

Parameter	Type	Description
buildName	string	The name of the parent build that will receive the module.
buildNumber	string	The number of the parent build that will receive the module.

**Query parameters (optional):**

Parameter	Type	Description
started	date/time	The start date & time of the parent build that will receive the module (ISO 8601 format).
buildRepo	string	The repository key of the parent build.
project	string	The project key of the parent build.

**Consumes:** application/vnd.org.jfrog.build.BuildInfoModule+json, application/json

**Sample Request Body:**

```
[  
 {  
   "properties": {  
     "maven.compiler.target": "1.8",  
     "maven.compiler.source": "1.8",  
     "project.build.sourceEncoding": "UTF-8"  
   },  
   "type": "maven",  
   "id": "org.example:commons:1.0.0",  
 }
```

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```
"artifacts": [
  {
    "type": "jar",
    "sha1": "e144ff29263e88b384dd5f1e6ac9915aa08dd674",
    "sha256": "2ac504eed18407b346d7dea3197a21232c1834cf052c92e537ed8c6ea10202f",
    "md5": "5f0a2bd37343401bf73c0c7b690a7651",
    "name": "commons-1.0.0.jar",
    "originalDeploymentRepo": "commons-dev-maven-virtual",
    "path": "org/example/commons/1.0.0/commons-1.0.0.jar"
  }
],
"dependencies": [
  {
    "type": "jar",
    "sha1": "e155460aaf5b464062a09c3923f089ce99128a17",
    "sha256": "28968ae55fff465494083aeba856f8824c34902329882bf61e77246a91e25aa9",
    "md5": "238dcae7363dd86b2e515a2a29e8b4d9",
    "id": "org.apache.commons:commons-lang3:3.10",
    "scopes": [
      "compile"
    ],
    "requestedBy": [
      [
        "org.example:commons:1.0.0"
      ]
    ]
  }
]
```

**Sample Response:** (none)

**Status Codes:**

Code	Description
204	Appended successfully
400	Bad Request
401	Bad Credentials
403	Permission Denied
404	Build-Info not found

### 2.2.5 | Build Info

**Description:** Returns information about the specified build.

**Since:** 2.2.0

**Notes:** Requires JFrog Container Registry or Artifactory Pro.

**Security:** Requires a privileged user with deploy permissions. From version 6.6, requires *read permission* for the build.

## JFrog REST APIs Displayed in the header

**Usage:** GET /api/build/{buildName}/{buildNumber}

**Query Parameters (optional):**

Parameter	Type	Description
started	date/time	The timestamp of when the build started.  Supported formats: yyyy-MM-dd'T'HH:mm:ss.SSSZ or yyyy-MM-dd'T'HH:mm:ss.SSS-0000 (or yyyy-MM-dd'T'HH:mm:ss.SSS+0000)
diff	string	The number of an older build to which you want to compare contents. For more information, see Builds Diff.
project	string	The project associated with the build. If a project is not specified, or if you are not working with projects, the default build-info repository associated with your Artifactory instance is used.

**Produces:** application/json (application/vnd.org.jfrog.build.BuildInfo+json), application/vnd.org.jfrog.build.BuildInfo+json

**Sample Output:**

```
GET /api/build/my-build/51
{
  "uri": "http://localhost:8081/artifactory/api/build/my-build/51"
  "buildInfo" : {
    ...
  }
}
```

(Optional) Run the command with the started parameter.

```
GET artifactory/api/build/<BUILD NAME>/<BUILD NUMBER>?started=yyyy-MM-dd'T'HH:mm:ss.SSSZ"
```

**Example**

```
curl -uadmin:password "http://172.16.10.35:8082/artifactory/api/build/generic-build-test/1?started=2022-02-23T12:39:45.777Z"
```

### 2.2.6 | Builds Diff

**Description:** Compare a build artifacts/dependencies/environment with an older build to see what has changed (new artifacts added, old dependencies deleted, etc).

**Since:** 2.6.6

**Security:** Requires a privileged user. From version 6.6, requires *read permission* for the build.

**Usage:** GET /api/build/{buildName}/{buildNumber}?diff={OlderbuildNumber}

**Produces:** application/json (application/vnd.org.jfrog.build.BuildsDiff+json)

**Sample Output:**

```
GET /api/build/my-build/51?diff=50
{
```

```

"artifacts": {
    "updated": [],
    "unchanged": [],
    "removed": [],
    "new": []
}, "dependencies": {
    "updated": [],
    "unchanged": [],
    "removed": [],
    "new": []
}, "properties": {
    "updated": [],
    "unchanged": [],
    "removed": [],
    "new": []
}
}
}
}

```

## 2.2.7 | Build Promotion

**Description:** Change the status of a build, optionally moving or copying the build's artifacts and its dependencies to a target repository and setting properties on promoted artifacts.

All artifacts from all scopes are included by default while dependencies are not. Scopes are additive (or). From version 5.7, the target repository can be a virtual repository.

**Since:** 2.3.3

**Security:** Requires a privileged user. From version 6.6, requires *Deploy permission* for the build.

**Usage:** POST /api/build/promote/{buildName}/{buildNumber} -H "Content-Type: application/json" --upload-file build-promotion.json

**Query parameters (optional):**

Field	Type	Description
project	string	The name of the project that contains the build to be promoted. If not defined, Artifactory uses the default build-info repo.

**Consumes:** application/json (application/vnd.org.jfrog.artifactory.build.PromotionRequest+json)

```

POST /api/build/promote/my-build/51
{
  "status": "staged",
  "comment" : "Tested on all target platforms.",
  "ciUser": "builder",
  "timestamp" : ISO8601,
  "dryRun" : false,
  "sourceRepo" : "libs-snapshot-local",
  "targetRepo" : "libs-release-local",
  "copy": false,
  "artifacts" : true,
  "dependencies" : false,
  "scopes" : [ "compile", "runtime" ],
  "comment" : "Tested on all target platforms.",
  "ciUser": "builder",
  "timestamp" : ISO8601,
  "dryRun" : false,
  "sourceRepo" : "libs-snapshot-local",
  "targetRepo" : "libs-release-local",

```

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```

"copy": false,
"artifacts" : true,
"dependencies" : false,
"scopes" : [ "compile", "runtime" ],
"properties": {
    "components": [ "c1","c3","c14"],
    "release-name": [ "fb3-ga"]
},
"failFast": true
}

```

The request includes the following information:

Property	Mandatory	Type	Description
status	optional	string	<p>The new status of the build. This is especially important when performing a promotion that only changes the status of the build without copying or moving artifacts and dependencies.</p> <p>If the status is not defined for a move or copy operation, the following occurs during promotion:</p> <ul style="list-style-type: none"> <li>• If targetRepo is defined, the move or copy operation is performed but the promotion is not tracked.</li> <li>• If targetRepo is not defined, the promotion is ignored (without any error).</li> </ul>
comment	optional	string	An optional comment describing the reason for the promotion.
ciUser	mandatory	string	The user that invoked promotion from the CI server.
timestamp	mandatory	date and time	<p>The time when the promotion command was received by Artifactory (ISO8601 format).</p> <p>The format is: 'yyyy-MM-dd'T'HH:mm:ss.SSSZ'. Example: '2016-02-11T18:30:24.825+0200'.</p>
dryRun	mandatory	boolean	<p>When set to true, performs a dry run of the promotion without executing any operation in Artifactory. This enables you to test whether the promotion will succeed. The results are returned in a JSON file.</p> <p>The default value is false.</p>
sourceRepo	optional	string	The repository from which the build contents will be copied or moved. If this property is not defined, the source repository is resolved automatically.
targetRepo	optional	string	The target repository to which the build contents will be copied or moved. This property does not need to be defined if the promotion involves a change of status only.
copy	mandatory	boolean	Determines how to perform the build promotion:

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Property	Mandatory	Type	Description
			<ul style="list-style-type: none"> <li>• true: <b>Copies</b> the artifacts (and optionally, the dependencies) to the targetRepo.</li> <li>• false: <b>Moves</b> the artifacts (and optionally, the dependencies) to the targetRepo.</li> </ul> <p>The default value is false (move).</p>
artifacts	mandatory	boolean	<p>Determines whether to move/copy the build's artifacts.</p> <p>The default value is true.</p>
dependencies	mandatory	boolean	<p>Determines whether to move/copy the build's dependencies.</p> <p>The default value is false (dependencies are not included).</p>
scopes	optional	array	An array of dependency scopes that indicate the circumstances under which a dependency is available. Relevant when dependencies is set to true. Common examples include compile and runtime.
properties	optional	array	A list of properties to attach to the build's artifacts (regardless of whether a targetRepo is defined).
failFast	mandatory	boolean	<p>When set to true, fails and aborts the promotion operation upon receiving an error.</p> <p>The default value is true.</p>

**Produces:** application/json (application/vnd.org.jfrog.artifactory.build.PromotionResult+json)

**Sample Output:**

```
{
  "messages" : [
    {
      "level": "error",
      "message": "The repository has denied...."
    },
    ...
  ]
}
```

**Status Codes:**

Code	Description
200	Success
401	Bad Credentials
403	Permission Denied

Code	Description
404	Not Found

## 2.2.8 | Promote Docker Image

**Description:** Promotes a Docker image from one repository to another. Supports local and Federated repositories.

**Since:** 3.7

**Notes:** Requires JFrog Container Registry or Artifactory Pro

**Security:** Requires a privileged user

**Usage:** POST api/docker/<repoKey>/v2/promote -H "Content-Type: application/json" --upload-file docker-promotion.json

**Consumes:** application/json

```
{
  "targetRepo" : "<targetRepo>",                                // The target repository for the move or copy
  "dockerRepository" : "<dockerRepository>",                  // The image name to promote
  "targetDockerRepository" : "<targetDockerRepository>" // An optional docker repository name, if null, will use the same
name as 'dockerRepository'
  "tag" : "<tag>",                                         // An optional tag name to promote, if null - the entire docker
repository will be promoted. Available from v4.10.
  "targetTag" : "<tag>",                                     // An optional target tag to assign the image after promotion, if
null - will use the same tag
  "copy": false                                              // An optional value to set whether to copy instead of move.
Default: false
}
```

**Produces:** application/text

**Sample Usage:**

```
POST api/docker/docker-local/v2/promote
{
  "targetRepo": "docker-prod",
  "dockerRepository": "jfrog/ubuntu"
}
```

## 2.2.9 | Delete Builds

**Description:** Removes builds stored in Artifactory. Useful for cleaning up old build info data.

If the artifacts parameter is evaluated as 1 (0/false by default), build artifacts are also removed provided they have the corresponding build.name and build.number properties attached to them.

If the deleteAll parameter is evaluated as 1 (0/false by default), the whole build is removed.

**Notes:** Requires Artifactory Pro

**Security:** Requires a privileged user. From version 6.6, requires delete permission for the Build.

**Produces:** application/text

**Usage 1 (since 6.13):** to delete multiple build numbers of a certain build. This includes build numbers containing special characters.

**Consumes:** application/json

```
POST /api/build/delete
```

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```
POST /api/build/delete -H "Content-type: application/json"

{
  "project": "catalina", // optional
  "buildName": "test",
  "buildNumbers": ["build1", "build2"],
  "deleteArtifacts": <true | false>, // default false
  "deleteAll": <true | false>, // default false
}POST /api/build/delete -H "Content-type: application/json"

{
  "project": "catalina",
  "buildName": "test",
  "buildNumbers": ["build1", "build2"],
  "deleteArtifacts": <true | false>,
  "deleteAll": <true | false>,
}
```

The request includes the following information:

Property	Mandatory	Type	Description
project	optional	string	The project to which the build belongs. If a project is not specified, the default project is used.
buildName	mandatory	string	The build name.
buildNumbers	optional	array	The build numbers to delete. This property can be left undefined if deleteAll is set to true.
deleteArtifacts	optional	boolean	When set to true, deletes the artifacts associated with the builds in addition to the metadata.  The default value is false (only the metadata is deleted).
deleteAll	optional	boolean	When set to true, deletes all build numbers of the defined build.  The default value is false. When set to false, you must define the relevant buildNumbers to delete.

### Usage 2 (since 2.3.0; artifact removal since 2.3.3):

```
DELETE /api/build/{buildName}[?buildNumbers=n1[,n2]][&artifacts=0/1][&deleteAll=0/1]
```

```
DELETE /api/build/my-build?buildNumbers=51,52,55&artifacts=1
```

The following builds has been deleted successfully: 'my-build#51', 'my-build#52', 'my-build#55'.

```
DELETE /api/build/my-build?deleteAll=1
```

All 'my-build' builds have been deleted successfully.

### 2.2.10 | Build Rename

**Description:** Renames a build stored in Artifactory. Typically used to keep the build info in sync with a renamed build on the CI server.

**Since:** 2.2.5

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**Notes:** Requires Artifactory Pro

**Security:** Requires a privileged user. From version 6.6, requires *deploy and delete permission* for the build.

**Usage:** POST /api/build/rename/{buildName}?to=newBuildName

**Produces:** application/text

### Sample Usage:

```
POST /api/build/rename/myJobName?to=myNewJobName
```

Build renaming of 'myJobName' to 'myNewJobName' was successfully started.

## 2.2.11 | Control Build Retention

**Description:** Specifies retention parameters for build info

**Since:** 5.2.1

**Note:** A promoted Build Info cannot be deleted using this API. Starting from version 7.68.6, when executing the Build Retention command with the `deleteBuildArtifacts` parameter set to true, the build will be deleted but the build's Artifacts might not be deleted and remain in the repository.

**Security:** Requires a privileged user. From version 6.6, requires *delete permission* for the build.

**Usage:** POST /api/build/retention/{buildName}?async=<true | false>

The `async` flag controls how the endpoint responds to the client regarding build operations. It determines whether the client will receive an immediate response or wait until the operation is complete.

- **async=true**

- Returns a response immediately to the client.
- The operation proceeds in the background.

- **async=false**

- Unless the configuration flag `build.retention.always.async` is set to true, the operation waits to complete before returning a response to the client.

**Consumes:** application/json

```
{  
    "deleteBuildArtifacts" : <true | false>,      // When true, automatically removes build artifacts stored in Artifactory.  
    "count" : <count>,                            // The maximum number of builds to store in Artifactory.  
    "minimumBuildDate" : <date>,                  // Earliest build date to store in Artifactory - ISO8601 (yyyy-MM-  
dd'T'HH:mm:ss.SSSZ)  
    "buildNumbersNotToBeDiscarded" : [ ]           // List of build numbers that should not be removed from Artifactory  
}
```

### Sample Usage:

```
POST /api/build/retention/myBuild?async=true
```

```
{  
    "deleteBuildArtifacts" : true,  
    "count" : 100, //  
    "minimumBuildDate" : 1407345768020,  
    "buildNumbersNotToBeDiscarded" : [ 5, 9]  
}
```

## 2.3 | ARTIFACTS & STORAGE

### 2.3.1 | Repository Replication APIs

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Repository Replication APIs include the following:

- Get Repository Replication Configuration
- Set Repository Replication Configuration
- Update Repository Configuration
- Delete Repository Replication Configuration
- Scheduled Replication Status
- Pull/Push Replication
- Pull/Push Replication (Deprecated)
- Create or Replace Local Multi-push Replication
- Update Local Multi-push Replication
- Delete Local Multi-push Replication
- Enable or Disable Multiple Replications
- Get Global System Replication Configuration
- Get Remote Repositories Registered for Replication
- Close all event based pull replication subscribed channels
- Block System Replication
- Unblock System Replication
- Configure Checksum Replication
- Get Checksum Replication

## 2.3.1.1 | Get Repository Replication Configuration

**Description:** Returns the replication configuration for the given repository key, if found. Supported by local and remote repositories. Note: The 'enableEventReplication' parameter refers to both push and pull replication.

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

**Usage:** GET /api/replications/{repoKey}

**Produces:** application/json (application/vnd.org.jfrog.artifactory.replications.ReplicationConfigRequest+json)

**Since:** 3.1.1 (update to include / exclude pattern on replication added in Artifactory 7.24.4)

### Sample Usage:

```
GET /api/replications/lib-repo-local
{
  "url" : "http://localhost:8081/artifactory/remote-repo",
  "socketTimeoutMillis" : 15000,
  "username" : "admin",
  "password" : "password",
  "enableEventReplication" : false,
  "enabled" : true,
  "cronExp" : "0 0 12 * * ?",
  "syncDeletes" : true,
  "syncProperties" : true,
  "syncStatistics" : false,
  "repoKey" : "lib-repo-local",    "replicationKey" : "generic-local_http__5d00703ade",
  "includePathPrefixPattern" : "/path/to/repo",
  "excludePathPrefixPattern" : "/path/to/repo",
  "checkBinaryExistenceInFilestore" : false
}
```

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**Note:** For Enterprise instances that support multipush replication, this REST API will return an array:

```
GET /api/replications/libs-release-local
[{
  "url" : "http://localhost:8081/artifactory/remote-repo",
  "socketTimeoutMillis" : 15000,
  "username" : "admin",
  "password" : "password",
  "enableEventReplication" : false,
  "enabled" : true,
  "cronExp" : "0 0 12 * * ?",
  "syncDeletes" : true,
  "syncProperties" : true,
  "syncStatistics" : false,
  "repoKey" : "libs-release-local",    "replicationKey" : "generic-local_http__5d00703ade",
  "includePathPrefixPattern" : "/path/to/repo",
  "excludePathPrefixPattern" : "/path/to/repo",
  "checkBinaryExistenceInFilestore" : false
}]
}
```

### 2.3.1.2 | Set Repository Replication Configuration

**Description:** Add or replace replication configuration for given repository key. Supported by local and remote repositories. Accepts the JSON payload returned from Get Repository Replication Configuration for a single and an array of configurations. If the payload is an array of replication configurations, then values for cronExp and enableEventReplication in the first element in the array will determine the corresponding values when setting the repository replication configuration.

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

**Usage:** PUT /api/replications/{repoKey}

**Consumes:** application/json (application/vnd.org.jfrog.artifactory.replications.ReplicationConfigRequest+json)

**Since:** 3.1.1 (update to include/exclude pattern on replication added in Artifactory 7.24.4)

**Note:** Enabling the *checkBinaryExistenceInFilestore* flag requires an Enterprise+ license. For more information, see Repository Replication. This flag will work for multi-push replication as well.

#### Sample Usage:

```
PUT /api/replications/libs-release-local
{
  "url" : "http://localhost:8081/artifactory/remote-repo",
  "socketTimeoutMillis" : 15000,
  "username" : "admin",
  "password" : "password",
  "enableEventReplication" : false,
  "enabled" : true,
  "cronExp" : "0 0 12 * * ?",
  "syncDeletes" : true,
  "syncProperties" : true,
  "syncStatistics" : false,
  "repoKey" : "libs-release-local",
  "includePathPrefixPattern" : "/path/to/repo",
  "excludePathPrefixPattern" : "/path/to/repo",
  "proxy": "proxy_id",
  "checkBinaryExistenceInFilestore" : "<true | false>" // When true, enables distributed checksum storage. For more
  // information, see Optimizing Repository Replication with Checksum-Based Storage
}
```

### 2.3.1.3 | Update Repository Replication Configuration

**Description:** Update existing replication configuration for given repository key, if found. Supported by local and remote repositories.

# JFrog REST APIs Displayed in the header

**Notes:** Requires Artifactory Pro

## Note

For multiple repository replication, refer to the Create or Replace Local Multi-push Replication REST API.

**Security:** Requires an admin user

**Usage:** POST /api/replications/{repoKey}

**Consumes:** full or partial application/json (application/vnd.org.jfrog.artifactory.replications.ReplicationConfigRequest+json)

**Since:** 3.1.1 (update to include/exclude pattern on replication added in Artifactory 7.24.4)

**Note:** Enabling the *checkBinaryExistenceInFilestore* flag requires an Enterprise+ license. For more information, see Repository Replication .

## Sample Usage:

```
POST /api/replications/libraries-release-local
```

```
{
  "url" : "http://localhost:8081/artifactory/remote-repo",
  "socketTimeoutMillis" : 15000,
  "username" : "admin",
  "password" : "password",
  "enableEventReplication" : false,
  "enabled" : true,
  "cronExp" : "0 0 12 * * ?",
  "syncDeletes" : true,
  "syncProperties" : true,
  "syncStatistics" : false,
  "repoKey" : "libraries-release-local",
  "includePathPrefixPattern" : "/path/to/repo",
  "excludePathPrefixPattern" : "/path/to/repo",
  "checkBinaryExistenceInFilestore" : "<true | false>" // When true, enables distributed checksum storage. For more
information, see Optimizing Repository Replication with Checksum- Based Storage
}
```

## 2.3.1.4 | Delete Repository Replication Configuration

**Description:** Delete existing replication configuration for given repository key. Supported by local and local-cached repositories.

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

**Usage:** DELETE /api/replications/{repoKey}

**Since:** 3.1.1

## Sample Usage:

```
DELETE /api/replications/libraries-release-local
```

## 2.3.1.5 | Scheduled Replication Status

**Description:** Returns the status of scheduled cron-based replication jobs defined in Artifactory. Supported by local, local-cached, and remote repositories. The status is returned on two levels, per replication job and per repository containing the replication jobs, as explained below.

**Notes:** Requires Artifactory Pro

**Security:** Requires a user with 'read' permission (can be anonymous)

**Since:** 2.4.2

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**Usage:** GET /api/replication/{repoKey}

**Produces:** application/json (application/vnd.org.jfrog.artifactory.replication.ReplicationStatus+json)

```
GET /api/replication/remote-libs
{
    "status": {status},
    "lastCompleted": {time},
    "targets":
    [
        { "url" : targetUrl, "repoKey": {repoKey}, "status" : {status}, "lastCompleted" : {time} },
        ...
        { "url" : targetUrl, "repoKey": {repoKey}, "status" : {status}, "lastCompleted" : {time} }
    ],
    "repositories":
    {
        {repoKey} : { "status" : {status}, "lastCompleted" : {time} },
        ...
        {repoKey} : { "status" : {status}, "lastCompleted" : {time} }
    }
}
```

where:

{status}= never\_run|incomplete(running or interrupted)|error|warn|ok|inconsistent

{time}= time in ISO8601 format (yyyy-MM-dd'T'HH:mm:ss.SSSZ), or null if never completed

### Sample Usage:

```
GET /api/replication/remote-libs
{
    "status" : "ok",
    "lastCompleted" : 2015-12-27T15:08:49.050+02:00,
    "targets":
    [
        { "url": "http://remote_host/remote-libs1", "repoKey": "remote-libs1", "status" : {status}, "lastCompleted" :
    "2015-12-27T15:07:49.050+02:00" },
        ...
        { "url" : "http://remote_host/remote-libs2", "repoKey": "remote-libs2", "status" : {status}, "lastCompleted" :
    "2015-12-27T15:07:49.050+02:00" }
    ],
    "repositories":
    {
        "remote-libs1" : { "status" : "ok", "lastCompleted" : "2015-12-27T15:07:49.050+02:00" },
        ...
        "remote-libs2" : { "status" : "ok", "lastCompleted" : "2015-12-27T15:07:49.050+02:00" }
    }
}
```

### Return Values for status

The status parameter will have one of the following return values:

Value	Description
<b>The following status return values can be returned for a single replication job:</b>	
never_run	The replication never ran.
incomplete	The replication ran but never finished.
inconsistent	The replication has no start-time but does have an end-time.

Value	Description
<b>The following status return values can be returned for a single replication job and also for the repository containing the replication jobs:</b>	
partial_failure	Some replications completed with errors.
warn	Replications completed with warnings.
error	Replications completed with errors.
ok	All replications completed successfully.

#### 2.3.1.6 | Pull/Push Replication

**Description:** Schedules immediate content replication between two Artifactory instances.

Replication can optionally include properties and delete items if they do not exist in the source repository.

This API completes the existing cron-based replication exposed via the Artifactory UI and allows for pre-scheduled execution.

**Pull Replication** - pulls content from a remote Artifactory repository to a local cache of the remote repository.

**Push Replication** - pushes content from a local repository into a local repository of another Artifactory instance.

**Multi-push Replication** - pushes content from a local repository into a local repository of several Artifactory instances. This feature is only available with Artifactory Enterprise license.

The type of replication initiated depends on the type of repository specified in the repoPath parameter.

If repoPath is a local repository, a push replication will be triggered. You may specify multiple target repositories in the payload for multi-push replication, but all must be local to their respective instances.

If repoPath is a remote repository cache, a pull replication will be triggered. Note that in this case you may only specify a single repository in the payload.

**Important note** - If no repositories are provided in the payload, Artifactory will trigger all existing replication configurations.

**Note:** Enabling the *checkBinaryExistenceInFilestore* flag requires an Enterprise+ license. For more information, see Repository Replication.

**Security:** Requires a privileged user (can be anonymous) For non-admin users, the maximum number of files that will be replicated is as defined by the *artifactory.search.userQueryLimit* system property.

**Usage:** POST /api/replication/execute/{repoPath}

**Consumes:** application/json

```
[  
  {  
    "url" : "<URL of the repository at the remote Artifactory instance, Used only by push replication>",  
    "username" : "<username at the remote Artifactory instance, Used only by push replication>",  
    "password" : "<password at the remote Artifactory instance, Used only by push replication>",  
    "proxy" : "<name of the proxy (if used) at the remote Artifactory instance, Used only by push replication>",  
    "properties" : "<true | false>", // When true, properties of replicated artifacts will be synchronized  
  }  
]  
also  
-      "delete" : "<true | false>", // When true, items that were deleted remotely will also be deleted  
locally (including properties metadata)
```

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```
-      "checkBinaryExistenceInFilestore" : "<true | false>" // When true, enables distributed checksum storage. For  
more information, see Optimizing Repository Replication with Checksum-Based storage

    }

]

+=mandatory; -=optional

Since: 4.7.5

Sample Usage:

// Single push replication
POST /api/replication/execute/libs-release-local
[
  {
    "url": "http://localhost:8082/artifactory/libs-release-local",
    "username": "admin",
    "password": "password",
    "proxy": "localProxy"
  }
]

// Pull replication
POST /api/replication/execute/libs-remote
[
  {
    "properties" : "true",
    "delete" : "true"
  }
]

// Multi-push replication
POST /api/replication/execute/libs-release-local
[
  {
    "url": "http://localhost:8082/artifactory/libs-release-local",
    "username": "admin",
    "password": "password",
    "proxy": "localProxy",
    "properties" : "true",
    "delete" : "true"
  },
  {
    "url": "http://localhost:8082/artifactory/ext-release-local",
    "username": "admin",
    "password": "password"
    "properties" : "true",
    "delete" : "true"
  },
  {
    "url": "http://localhost:8082/artifactory/plugins-release-local",
    "username": "admin",
    "password": "password"
    "properties" : "true",
    "delete" : "true"
  }
]

// Trigger configured push replication
POST /api/replication/execute/libs-release-local

// Trigger configured pull replication
POST /api/replication/execute/libs-remote
```

2.3.1.7 | Pull/Push Replication (Deprecated)

## JFrog REST APIs Displayed in the header

**Description:** Schedules immediate content replication between two Artifactory instances. Replication can include properties and can optionally delete local items if they do not exist in the source repository.

This API completes the existing cron-based replication exposed via the Artifactory UI and allows for on-demand execution.

Pull Replication - pulls content from a remote Artifactory repository to a local cache of the remote repository.

Push Replication - pushes content from a local repository into a remote Artifactory local repository.

Supported by local, local-cached, and remote repositories.

**Notes:** Requires Artifactory Pro

**Security:** Requires a privileged user (can be anonymous) For non-admin users will replicate at max the number of files as defined by the artifactory.search.userQueryLimit system property.

**Usage:** POST /api/replication/{srcRepoKey}/{srcPath}

**Consumes:** application/json (application/vnd.org.jfrog.artifactory.replication.ReplicationRequest+json)

**Since:** 2.4.0

### Sample Usage:

```
POST /api/replication/libs-release-local/com/acme
{
    //The following is only applicable for push replication
    + "url" : "https://repo.nmiy.org/repo-key", // The remote repository URL
    + "username": "replicator", //The name of a user with deploy permissions on the remote repository
    + "password": "***", //The remote repository password
    - "properties": true, //Sync item properties (true by default)
    - "delete": true, //Sync deletions (false by default)
    - "proxy": "org-prox", //A name of an Artifactory-configured proxy to use for remote requests
}
+=mandatory; -=optional
```

### 2.3.1.8 | Create or Replace Local Multi-push Replication

**Description:** Creates or replaces a local multi-push replication configuration. Supported by local repositories.

**Notes:** Requires an enterprise license

### Note

For single repository replication, refer to the Update Repository Replication Configuration REST API.

**Security:** Requires an admin user.

**Usage:** PUT /api/replications/multiple/{repo-key}

**Consumes:** application/json (application/vnd.org.jfrog.artifactory.replications.MultipleReplicationConfigRequest+json)

**Since:** 3.7

### Sample Usage:

```
PUT /api/replications/multiple/libs-release-local
{
    "cronExp":"0 0/9 14 * * ?",
    "enableEventReplication":true,
    "replications": [
        {
            + "url": "http://localhost:8081/artifactory/repo-k",
            + "socketTimeoutMillis": 15000,
            + "username": "admin",
            + "password": "password",
            - "enableEventReplication": true,
            - "enabled": true,
```

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```
-      "syncDeletes": false,
-      "syncProperties": true,
-      "syncStatistics" : false,
-      "repoKey": "libs-release-local"
    }

,
{
+      "url": "http://localhost:8081/artifactory/repo-v",
+      "socketTimeoutMillis": 15000,
+      "username": "admin",
+      "password": "password",
-      "enableEventReplication": true,
-      "enabled": true,
-      "syncDeletes": false,
-      "syncProperties": true,
-      "syncStatistics" : false,
-      "repoKey": "libs-release-local"
}

,
{
+      "url": "http://localhost:8081/artifactory/repo-k",
+      "socketTimeoutMillis": 15000,
+      "username": "admin",
+      "password": "password",
-      "enableEventReplication": true,
-      "enabled": true,
-      "syncDeletes": false,
-      "syncProperties": true,
-      "syncStatistics" : false,
-      "repoKey": "libs-release-local",
-      "checkBinaryExistenceInFilestore" : "<true | false>" // When true, enables distributed checksum storage. For more
information, see Optimizing Repository Replication with Checksum-Based Storage
}

,
{
+      "url": "http://localhost:8081/artifactory/repo-v",
+      "socketTimeoutMillis": 15000,
+      "username": "admin",
+      "password": "password",
-      "enableEventReplication": true,
-      "enabled": true,
-      "syncDeletes": false,
-      "syncProperties": true,
-      "syncStatistics" : false,
-      "repoKey": "libs-release-local",
-      "checkBinaryExistenceInFilestore" : "<true | false>" // When true, enables distributed checksum storage. For more
information, see Optimizing Repository Replication with Checksum-Based Storage
}

]
}
```

+ = mandatory; - = optional

### 2.3.1.9 | Update Local Multi-push Replication

**Description:** Updates a local multi-push replication configuration. Supported by local repositories.

**Notes:** Requires an enterprise license

**Security:** Requires an admin user.

**Usage:** POST /api/replications/multiple/{repo-key}

**Consumes:** application/json (application/vnd.org.jfrog.artifactory.replications.MultipleReplicationConfigRequest+json)

**Since:** 3.7

# JFrog REST APIs Displayed in the header

## Sample Usage:

```
POST /api/replications/multiple/libs-release-local
{
    "cronExp": "0 0/9 14 * * ?",
    "enableEventReplication": true,
    "replications": [
        {
            "url": "http://localhost:8081/artifactory/repo-k",
            "socketTimeoutMillis": 15000,
            "username": "admin",
            "password": "password",
            "enableEventReplication": true,
            "enabled": true,
            "syncDeletes": false,
            "syncProperties": true,
            "syncStatistics": false,
            "repoKey": "libs-release-local"
        },
        {
            "url": "http://localhost:8081/artifactory/repo-v",
            "socketTimeoutMillis": 15000,
            "username": "admin",
            "password": "password",
            "enableEventReplication": true,
            "enabled": true,
            "syncDeletes": false,
            "syncProperties": true,
            "syncStatistics": false,
            "repoKey": "libs-release-local"
        }
    ]
}

+=mandatory; -=optional
```

## 2.3.1.10 | Delete Local Multi-push Replication

**Description:** Deletes a local multi-push replication configuration. Supported by local repositories.

**Notes:** Requires an enterprise license

**Security:** Requires an admin user.

**Usage:** DELETE /api/replications/{repoKey}?url={replicatedURL}

If the url parameter is omitted, all multi-push replication configurations for the source repository are deleted.

**Produces:** application/json (application/vnd.org.jfrog.artifactory.replications.ReplicationConfigRequest+json), application/json (application/vnd.org.jfrog.artifactory.replications.MultipleReplicationConfigRequest+json)

**Since:** 3.7

## Sample Usage:

```
DELETE /api/replications/libs-release-local?url=http://10.0.0.1/artifactory/libs-release-local

//Delete all multi-push replication configurations for libs-release-local
DELETE /api/replications/libs-release-local
```

## 2.3.1.11 | Enable or Disable Multiple Replications

**Description:** Enables/disables multiple replication tasks by repository or Artifactory server based on include and exclude patterns where include and exclude patterns should be target repository URLs.

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**Notes:** Requires Artifactory Pro

**Security:** Requires a privileged user

**Usage:** POST /api/replications/{enable | disable}

**Consumes:** application/json

**Since:** 4.4.3

**Sample Usage:**

```
//Enable/disable all push replications except those going out to http://artimaster:port/artifactory and
//https://somearti:port/artifactory/local-repo.
POST /api/replications/{enable | disable}
{
  "include" : [ "**" ],
  "exclude" : [ "http://artimaster:port/artifactory/**", "https://somearti:port/artifactory/local-repo" ]
}

//Enable/disable all push replications expect those going out to http://artidr:port/artifactory
POST /api/replications/{enable | disable}
{
  "include" : [ "**" ],
  "exclude" : [ "http://artidr:port/artifactory/**" ]
}
```

### 2.3.1.12 | Get Global System Replication Configuration

**Description:** Returns the global system replication configuration status, i.e. if push and pull replications are blocked or unblocked.

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

**Usage:** GET /api/system/replications

**Produces:** application/json

**Since:** 4.7.2

**Sample Usage:**

```
GET /api/system/replications
{
  "blockPullReplications": false,
  "blockPushReplications": false
}
```

### 2.3.1.13 | Get Remote Repositories Registered for Replication

**Description:** This endpoint, which is run against a local repository, returns a list of all the instances subscribed for event-based pull replication by a remote repository.

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

**Usage:** GET /api/replications/channels/{repo}

**Produces:** application/json

**Since:** 6.0.0

**Sample Usage (when replication is running):**

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```
curl -uadmin:password "https://artifactory.jfrog.io/artifactory/api/replications/channels/maven-prod-local" -L  
[{"ip#{service id}", ...]  
e.g.  
["100.0.0.50#jfret@01jcpqq1syts50aj5cc1c10bz_test-maven_test-maven"]%
```

### Sample Usage (when replication is not running):

```
curl -uadmin:password "https://artifactory.jfrog.io/artifactory/api/replications/channels/maven-prod-local" -L  
["]%
```

### 2.3.1.14 | Close all event based pull replication subscribed channels

**Description:** Close the connection of all the event based pull replication instances subscribed to this Artifactory, which force them to try to reopen connection.

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

**Usage:** POST api/replications/channels/release

**Produces:** application/json

**Since:** 6.0.0

### Sample Usage:

```
POST api/replications/channels/release
```

```
200 OK
```

### 2.3.1.15 | Block System Replication

**Description:** Blocks replications globally. Push and pull are true by default. If false, replication for the corresponding type is not blocked.

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

**Usage:** POST api/system/replications/block?push=[true|false]&pull=[true|false]

**Produces:** text/plain

**Since:** 4.7.2

### Sample Usage:

```
POST /api/system/replications/block
```

```
Successfully blocked all replications, no replication will be triggered.
```

### 2.3.1.16 | Unblock System Replication

**Description:** Unblocks replications globally. Push and pull are true by default. If false, replication for the corresponding type is not unblocked.

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

**Usage:** POST api/system/replications/unblock?push=[true|false]&pull=[true|false]

**Produces:** text/plain

**Since:** 4.7.2

**Sample Usage:**

```
POST /api/system/replications/unblock
Successfully unblocked all replications
```

2.3.1.17 | Configure Checksum Replication

**Description:** Configures metadata replication of artifacts between the source Artifactory and target Artifactory while artifact replication is done with storage-level replication. The API can also set the number of days to trust the replication, which allows the transfer for a limited number of days. Allows the usage of the checkBinaryExistenceinFilestore flag in the Pull/Push Replication API on the source Artifactory.

For more information, see [Optimize Repository Replication Using Storage Level Synchronization Options](#).

**Note**

This feature is available for customers in Self-Hosted environments.

**Security:** Requires an admin user.

**Usage:** PUT /api/config/storage/checksumReplication

**Consumes:** application/json

```
[  
  {  
    "checkBinaryExistenceAllowed" : "<true | false>",      // Allows the usage of the checkBinaryExistenceinFilestore flag  
    // in the Pull/Push Replication API on the source Artifactory.  
    "daysToTrust" : "<number of days to trust the replication>" // The number of days for which the full checksum from  
    // source Artifactory is trusted. Useful for migration process. The value cannot be more than 30 days. The default is 0.  
    // Artifactory UI displays the remaining number of days to trust when the admin logs in.  
  }  
]  
+=mandatory; -=optional
```

**Since:** 7.55.2

**Sample Usage:**

```
PUT /api/config/storage/checksumReplication  
[  
  {  
    "checkBinaryExistenceAllowed" : "true"  
  }  
]
```

2.3.1.18 | Get Checksum Replication

Gets the checksum replication status on the target Artifactory. The API returns the replication status and the date until which the trust expires.

**Note**

This REST API is supported on Self-Hosted platforms only.

**Security:** Requires an admin user.

**Usage:** GET /api/config/storage/checksumReplication

**Consumes:** application/json Since: 7.55.2

**Since:** 7.55.2

**Sample Usage:**

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```
GET /api/config/storage/checksumReplication

#returns

{

  "checkBinaryExistenceAllowed": true,

  "trustUntil": "2023-03-25 21:46:46 +0200"

}
```

### 2.3.2 | Trash Can/Garbage Collection APIs

Trash Can/Garbage Collection APIs include the following:

- Empty Trash Can
- Delete Item From Trash Can
- Restore Item from Trash Can
- Run Garbage Collection
- Delete Redundant Records to Trash Can Directories (run once only)

#### 2.3.2.1 | Empty Trash Can

**Description:** Permanently deletes the entire contents of the Trash Can.

**Notes:** Requires Artifactory Pro

**Security:** Requires a valid admin user

**Usage:** POST /api/trash/empty

**Since:** 4.4.3

#### 2.3.2.2 | Delete Item From Trash Can

**Description:** Permanently deletes an item from the trash can.

**Notes:** Requires Artifactory Pro

**Security:** Requires a valid admin user

**Usage:** DELETE /api/trash/clean/{repoName/path}

**Since:** 4.4.3

**Sample usage:**

```
DELETE /api/trash/clean/npm-local
```

#### 2.3.2.3 | Restore Item from Trash Can

**Description:** Restore an item from the trash can.

**Notes:** Requires Artifactory Pro

**Security:** Requires a valid admin user

**Usage:** POST /api/trash/restore/{from path}?to={to path}

**Since:** 4.4.3

**Sample usage:**

```
POST /api/trash/restore/npm-local?to=npm-local2
```

Successfully restored trash items

#### 2.3.2.4 | Run Garbage Collection

**Description:** Deletes from the Trash Can artifacts with a retention time that has expired and deletes orphan binaries when the full garbage collection cycle runs. The full garbage collection runs after a certain number of iterations and this number can be changed by the user. The default value is 20.

**Since:** 2.0.0

**Security:** Requires an admin user.

**Usage:** POST /api/system/storage/gc

**Produces:** text/plain

**Sample Usage:**

```
POST /api/system/storage/gc
```

200 OK

#### 2.3.2.5 | Delete Redundant Records to Trash Can Directories

**Description:** This REST API is called to delete redundant records to Trash Can directories. The redundant metadata of a Trash Can directory slows down the Small Garbage Collection process and can eventually cause an overall degradation in database performance. Calling this API alleviates this problem.

**Note**

The process of deleting redundant records to Trash Can directories needs to be performed only once and no more. Performing this process more than once will cause no damage but simply has no effect.

**Security:** Requires an admin user.

**Produces:** application/json

**Usage:**

```
curl -u <user_name>:<password> -XPOST http://artifactory_host:port/artifactory/api/deleteDirectoryTrashProperty/start
```

**Since:** 7.75

**Sample Usage:**

```
curl -u admin:password -XPOST http://artifactory_host:port/artifactory/api/deleteDirectoryTrashProperty/start \
-H "Content-Type: application/json" \
-d '{
  "batchSize": "10000",
  "pauseBetweenBatchesMs": "1000",
  "batchesCount": "-1"
}'
```

**Query Parameters:**

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Field	Type	Description
batchSize	number	<p>Optional parameter. Default value: 1000.</p> <p>The number of records to retrieve for a single DB query, should be an integer greater than 0.</p>
pauseBetweenBatchesMs	number	<p>Optional parameter. Default value: 1000.</p> <p>This parameter defines the pause (in milliseconds) between successive DB query executions. Should be an integer greater than 0.</p>
batchesCount	number	<p>Optional parameter. Default value: -1 (no limit).</p> <p>This parameter limits the maximum number of DB query executions. For example, if batchesCount = 20 and batchSize is 1,000, then a maximum of <math>(20 * 1,000) = 20,000</math> records can be deleted.</p> <p><b>Note</b></p> <p>If a positive value is set for this parameter, you may need to call this API more than once until all redundant records are deleted. Review the process logs (described below) to determine if all redundant records have been deleted.</p>

## Sample Response:

```
HTTP/1.1 202 Accepted
Content-Type: application/json
{
  "info": "Remove Directories Trashcan Time task has been submitted"
}
```

## Process Logs for Deleting Redundant Records to Trash Can Directories

You can monitor how the deletion task is progressing by reviewing the process logs. During the removal process, log entries (at INFO level) are issued that can be used to follow the removal process. In the example below, the removal process is run with batchSize = 45 and pauseBetweenBatchesMs = 5000. As a result,  $45*11 + 4 = 499$  records were removed in 12 iterations, with 5 seconds between each interval.

```
2023-11-14T13:21:26.850Z [jfrt ] [INFO ] [38b4da85c8ffe560]
[moveDirsTrashcanTimeService:31] [8ffe560|art-exec-186] - Batch #0 finished. 45 records were removed
2023-11-14T13:21:32.322Z [jfrt ] [INFO ] [38b4da85c8ffe560]
[moveDirsTrashcanTimeService:31] [8ffe560|art-exec-186] - Batch #1 finished. 45 records were removed
[moveDirsTrashcanTimeService:31] [8ffe560|art-exec-186] - Batch #2 finished. 45 records were removed

...
2023-11-14T13:22:24.611Z [jfrt ] [INFO ] [38b4da85c8ffe560]
[moveDirsTrashcanTimeService:31] [8ffe560|art-exec-186] - Batch #10 finished. 45 records were removed
2023-11-14T13:22:30.229Z [jfrt ] [INFO ] [38b4da85c8ffe560]
[moveDirsTrashcanTimeService:31] [8ffe560|art-exec-186] - Batch #11 finished. 4 records were removed
2023-11-14T13:22:30.229Z [jfrt ] [INFO ] [38b4da85c8ffe560]
[moveDirsTrashcanTimeService:33] [8ffe560|art-exec-186] - Last batch reached.
Remove Directories Trashcan Time task finishes
```

When the process has completed and the maximum number of batch executions is reached, the following output is received:

```
2023-11-21T13:06:51.948Z [jfrt ] [INFO ] [4c06f1666671fb9 ]
[DirsTrashcanTimeServiceImpl:31] [6671fb9|art-exec-452] - Max number (10) of batch executions reached.
Remove Directories Trashcan Time task finishes
```

### 2.3.3 | Pruning Unreferenced Data (PUD) APIs

The Pruning Unreferenced Data (PUD) APIs are used to delete randomly existing binaries in the filestore that are not referenced in Artifactory. Because these binaries are not referenced, they cannot be deleted with Artifactory's Garbage Collection and the only way to remove them is with the PUD APIs or the PUD user interface. There are three PUD APIs:

- Start PUD Process
- Get Status of the PUD Process
- Stop PUD Process

The Start PUD Process API contains various parameters that give you control over how to run the PUD process. By default, the Start API initiates the PUD process from the beginning of the directories list. However, the API has a parameter for starting the process from a specific directory as well as a parameter for starting the process from a specific binary in a directory. You can also choose to refrain from deleting unreferenced binaries that were created after a certain date and there is a dry-run option that allows you to run the PUD process without actually deleting unreferenced binaries (this can be useful for estimating the number of unreferenced binaries in each directory without actually removing them).

The Get Status of the PUD Process API returns the current status of the PUD process (i.e., running, stopped, finished, or error) along with relevant data on the process such as total binaries deleted, total size of disk space cleaned, information on the last handled directory, and other information.

If you want to end the PUD process before it reaches the end of the directories list, the Stop PUD Process API allows you to do this.

#### 2.3.3.1 | Start PUD Process

**Description:** This REST API is called to start a new PUD process, or resume a PUD process that was stopped before completion.

**Security:** Requires an admin user.

**Produces:** application/json

**Usage:**

```
curl -u <user_name>:<password> -XPOST http://artifactory_host:port/artifactory/api/system/storage/prune/start \
-H "Content-Type: application/json" \
-d '{
  "dryRun":true,
  "startFromDirectory":"f9",
  "startFromBinary": "81",
  "binaryOlderThanDays": "2"
}'
```

**Since:** 7.72

**Query Parameters:**

Field	Type	Description
dryRun	boolean	Optional. If <b>false</b> then unreferenced binaries will be actually removed from the filestore. If <b>true</b> then unreferenced binaries will not be removed from the filestore. This mode may be useful to estimate the number of unreferenced binaries in each directory without actually removing them.  Default: <b>false</b>
startFromDirectory	string	Optional. If present, the PUD process will continue from the directory identified here.  If this parameter is omitted, the PUD process starts to prune from the beginning of the directories list.  Default: empty

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Field	Type	Description
startFromBinary	integer	<p>Optional. If present, the PUD process continues from this position in the last directory that the previous PUD process stopped at. This parameter can be found in the response of the Get Status API at <code>lastHandledDirectory&gt;binariesProcessed</code>.</p> <p>If omitted, the PUD process starts to prune from the first binary in the directory.</p> <p>Default: 0</p>
binaryOlderThanDays	integer	<p>Optional. If present, unreferenced binaries that are newer than <code>binaryOlderThanDays</code> are ignored by the PUD process. If <code>binaryOlderThanDays</code> = 0, the PUD process does not relate to the binary creation date.</p> <p>Default: 1 (ignore unreferenced binaries created in the last 24 hours)</p>

### Sample Usage:

In this example, a real pruning is performed (dryRun is not present) starting from the directory `d5`. The first 812046 binaries will be skipped in this directory since `startFromBinary` = 812047. Any binaries newer than 90 days will be skipped by the PUD process.

```
curl -u admin:password -XPOST http://artifactory_host:port/artifactory/api/system/storage/prune/start
-H "Content-Type: application/json" \
-d '{
  "startFromDirectory": "d5",
  "startFromBinary": "812047",
  "binaryOlderThanDays": "90"
}'
```

### Sample Responses:

In the response below, an error message was received since the PUD process is already running and another process cannot start.

```
HTTP/1.1 412 Precondition Failed
{
  "info": "Pruning Unreferenced Data task cannot be started"
}
```

The response below shows confirmation that the PUD process has started to run from the beginning of the directory list.

```
HTTP/1.1 202 Accepted
Content-Type: application/json
{
  "info": "Pruning Unreferenced Data task has been submitted"
}
```

The response below shows confirmation that the PUD process has started to run from a specific directory.

```
HTTP/1.1 202 Accepted
Content-Type: application/json
{
  "info": "Prune Unreferenced Data task resumes from directory f9"
}
```

### 2.3.3.2 | Get Status of the PUD Process

**Description:** Get the current status of the PUD process (i.e., running, stopped, finished, or error) along with relevant data on the process such as total binaries deleted, total size of disk space cleaned, information on the last handled directory, and other information.

**Security:** Requires an admin user.

**Produces:** application/json

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## Usage:

```
curl -u <user_name>:<password> -XGET http://artifactory_host:port/artifactory/api/system/storage/prune/status
```

Since: 7.72

## Sample Usage:

```
curl -u admin:password -XGET http://localhost:8082/artifactory/api/system/storage/prune/status
```

## Sample Responses:

If the PUD process has never run on your filestore, you will get the following response:

```
HTTP/1.1 412 Precondition Failed
Content-Type: application/json
{
    "info": "No Prune task found"
}
```

Here is a sample response, if the PUD process ran at least once on your filestore:

```
HTTP/1.1 200 OK
Content-Type: application/json
{
    "status": "running",
    "dryRun": true,
    "timing": {
        "startedAtMillis": 1692862063727,
        "startedAt": "2023-08-24T10:27:43",
        "durationMillis": 285404,
        "duration": "0:04:45.404",
        "lastUpdatedMillis": 1692862349131,
        "lastUpdated": "2023-08-24T10:32:29"
    },
    "progress": "2 of 256",
    "report": {
        "totalBinariesProcessed": 2,
        "totalBinariesCleaned": 0,
        "totalBytesCleaned": 0
    },
    "lastHandledDirectory": {
        "name": "01",
        "status": "finished",
        "binariesProcessed": 1,
        "binariesCleaned": 0,
        "bytesCleaned": 0,
        "timing": {
            "startedAtMillis": 1692862347041,
            "startedAt": "2023-08-24T10:32:27",
            "durationMillis": 2090,
            "duration": "0:00:02.090",
            "lastUpdatedMillis": 1692862349131,
            "lastUpdated": "2023-08-24T10:32:29"
        }
    }
}
```

The response includes the following information:

Property	Description
status	The status of the PUD process, which will be one of the following:

# JFrog REST APIs

## Displayed in the header

Property	Description
	<ul style="list-style-type: none"><li>• <b>running:</b> The PUD process is currently running and prune-eligible binaries are being deleted.</li><li>• <b>stopped:</b> The PUD process has been manually stopped.</li><li>• <b>finished:</b> The PUD process has finished.</li><li>• <b>error:</b> The PUD process has stopped due to an unrecoverable error. Error details will appear in the <b>error</b> element of the JSON response (this element appears only when an error occurs).</li></ul>
dryRun	<p>It is possible to execute the PUD process without actually deleting unreferenced binaries. A user might want to do this to test the PUD process or to get an estimation of the number prune-eligible binaries.</p> <p>The dryRun flag indicates whether or not the PUD process is actually deleting binaries. This flag is set when calling the Start PUD API.</p>
timing	<p>This array contains the following data:</p> <ul style="list-style-type: none"><li>• <b>startedAtMillis:</b> The time in milliseconds when the PUD process started.</li><li>• <b>startedAt:</b> The time when the PUD process started.</li><li>• <b>durationMillis:</b> – The duration of the PUD process in milliseconds up until the point when this report was issued.</li><li>• <b>duration:</b> The duration of the PUD process up until the point when this report was issued.</li><li>• <b>lastUpdatedMillis:</b> The time in milliseconds at which this report was issued.</li><li>• <b>lastUpdated:</b> The time at which this report was issued.</li></ul>
progress	<p>The number of directories that have been processed thus far.</p>
report	<p>This array contains the following data:</p> <ul style="list-style-type: none"><li>• <b>totalBinariesProcessed:</b> The total number of binaries processed thus far.</li><li>• <b>totalBinariesCleaned:</b> The total number of binaries removed thus far.</li><li>• <b>totalBytesCleaned:</b> The total number of bytes reclaimed by the PUD process.</li></ul>
lastHandledDirectory	<p>This array contains the following data:</p>

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Property	Description
	<ul style="list-style-type: none"><li>• <b>name:</b> The name of the directory that was being processed when this report was issued.</li><li>• <b>status:</b> Has the same possible values as the main status property, but relates to this directory only.</li><li>• <b>binariesProcessed:</b> The number of binaries processed in this directory.</li><li>• <b>binariesCleaned:</b> The number of binaries removed in this directory.</li><li>• <b>bytesCleaned:</b> The number of bytes reclaimed in this directory.</li><li>• <b>timing:</b> The properties in this array are the same as the main <b>timing</b> array above, but apply to the last handled directory only.</li></ul>

### 2.3.3.3 | Stop PUD Process

**Description:** This REST API is called to stop the PUD process.

**Security:** Requires an admin user.

**Produces:** application/json

**Usage:**

```
curl -u <user_name>:<password> -XPOST http://artifactory_host:port/artifactory/api/system/storage/prune/stop
```

**Since:** 7.72

**Sample Usage:**

```
curl -u admin:password -XPOST http://localhost:8082/artifactory/api/system/storage/prune/stop
```

**Sample Responses:**

The following example shows the response received when the PUD process is successfully stopped.

```
HTTP/1.1 202 Accepted
Content-Type: application/json
{
  "info": "Prune task stop request submitted at directory 5d"
}
```

The following example shows the response received when the PUD process is not running when the stop request is received.

```
HTTP/1.1 412 Precondition Failed
Content-Type: application/json
{
  "info": "No running Prune task found"
}
```

### 2.3.4 | Item Properties APIs

The Item Properties APIs include the following:

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- Get Item Properties
- Set Item Properties
- Update Item Properties
- Delete Item Properties
- Set Item SHA256 Checksum

## 2.3.4.1 | Get Item Properties

**Description:** This REST API is called to retrieve item properties. Optionally, it can return only certain requested properties.

**Since:** 2.2.1

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /api/storage/{repoKey}/{itemPath}?properties[=x[,y]]

**Produces:** application/json (application/vnd.org.jfrog.artifactory.storage.ItemProperties+json)

**Sample Output:**

```
GET /api/storage/libs-release-local/org/acme?properties\[=x[,y]\]
{
  "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme"
  "properties": {
    "p1": ["v1", "v2", "v3"],
    "p2": ["v4", "v5", "v6"]
  }
}
```

## 2.3.4.2 | Set Item Properties

**Description:** Attach properties to an existing item (file, folder, or repository). When a folder is used property attachment is recursive by default.

To supply special characters (comma (,), backslash(\), pipe(|), equals(=)) as a key/value you must add an encoded backslash (%5C) before them. For example: ...?properties=a=1%5C=1 will attach key a with 1=1 as value.

To specify multiple properties, you can separate the items in one of the following ways:

- Use a semicolon (";) (recommended)
- Use the encoding for the pipe ("|") character - %7C

Alternatively, you may configure your NGINX to encode URLs so that if an unencoded pipe is used in the URL, NGINX will encode it to %7C. We recommend that you verify that this configuration does not break any other systems served by NGINX

To specify multiple values for a single property, separate the items with a semicolon (%5C;) or a comma (,).

Supported by local and local-cached repositories.

**Notes:** Requires Artifactory Pro

The following special characters are forbidden in the key field: ){}[][\*+^\$\`!@#%&<>;,±§ and the Space character.

**Since:** 2.3.0

**Security:** Requires a privileged user (can be anonymous)

**Usage:** PUT /api/storage/{repoKey}/{itemPath}?properties=p1=v1[,v2][|p2=v3][&recursive=0]

**Sample Usage:**

```
PUT /api/storage/libs-release-local/ch/qos/logback/logback-classic/0.9.9?properties=os=win,linux|qa=done&recursive=0
```

**Tip**

For instructions about adding properties to artifacts during their deployment to Artifactory, see [Using Properties in Deployment and Resolution](#).

**Tip**

Starting with Artifactory 7.104.x, it is possible to define an upper limit on the number of artifacts on which property updates can be performed at one time. For example, if you revise a folder property and the folder contains more items than the limit defined in this system parameter, the operation will fail. This feature is useful for preventing heavy loads on the database. The limit is defined using the system parameter, `artifactory.max.artifacts.set.properties.recursive`. By default, this feature is off. There is no default value when turned on.

#### 2.3.4.3 | Update Item Properties

**Description:** Attach and modify properties to an item: file, folder, or repository. Property attachment is recursive by default. Supported by local and local-cached repositories.

**Notes:** Requires Artifactory Pro.

**Since:** 6.1.0

**Security:** Requires a privileged user (Annotate authorization required)

**Usage:** PATCH /api/metadata/{repoKey}/{itemPath}?[&recursiveProperties=0]

**Consumes:** application/json

**Sample Usage:**

```
PATCH /api/metadata/libs-release-local/org/acme?&recursiveProperties=0&atomicProperties=0
{
    "props": {
        "newKey": "newValue",
        "existingKey": "modifiedValue",
        "toBeRemovedKey": null
    }
}
```

#### 2.3.4.4 | Delete Item Properties

**Description:** Deletes the specified properties from an item (file, folder, or repository). When a folder is used property removal is recursive by default. Supported by local and local-cached repositories.

**Notes:** Requires Artifactory Pro

**Since:** 2.3.2

**Security:** Requires a privileged user (can be anonymous)

**Usage:** DELETE /api/storage/{repoKey}/{itemPath}?properties=p1[,p2][&recursive=0]

**Sample Usage:**

```
DELETE /api/storage/libs-release-local/ch/qos/logback/logback-classic/0.9.9?properties=os,qa&recursive=0
```

#### 2.3.4.5 | Set Item SHA256 Checksum

**Description:** Calculates an artifact's SHA256 checksum and attaches it as a property (with key "sha256"). If the artifact is a folder, then recursively calculates the SHA256 of each item in the folder and attaches the property to each item.

**Since:** 4.2.1

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**Security:** Requires an admin user

**Consumes:** application/json

**Usage:** POST /api/checksum/sha256 -H "Content-Type: application/json"

## Sample Usage:

```
POST /api/checksum/sha256 -H "Content-Type: application/json"
{
  "repoKey": "ext-snapshot-local",
  "path": "artifactory-powerpack-3.9.3/bin/"
}
```

## Note

Artifactory natively supports SHA-256 since Artifactory version 5.5. For more information, see [SHA-256 Support](#). Therefore, there is no longer a need to attach the checksum as a property of the artifact. This API has been maintained to provide backward compatibility for users of older Artifactory versions.

## 2.3.5 | Deploy Artifact APIs

The Deploy Artifact APIs include the following:

- [Deploy Artifact](#)
- [Deploy Artifact by Checksum](#)
- [Deploy Artifacts from Archive](#)

### 2.3.5.1 | Deploy Artifact

**Description:** Deploy an artifact to the specified destination.

**Notes:** You can also Attach Properties as part of deploying artifacts.

**Security:** Requires a user with 'deploy' permissions (can be anonymous)

**Usage:** PUT /repo-key/path/to/artifact.ext

**Produces:** application/json ([application/vnd.org.jfrog.artifactory.storage.ItemCreated+json](#))

## Important

In certain cases (particularly when working with large artifacts), the Created timestamp might be *later* than the Last Modified timestamp. This can occur because the Last Modified timestamp records when the upload began, whereas the Created timestamp is set only when the upload is complete and committed to the database.

## Sample Usage:

```
PUT /libs-release-local/my/jar/1.0/jar-1.0.jar
{
  "uri": "http://localhost:8081/artifactory/libs-release-local/my/jar/1.0/jar-1.0.jar",
  "downloadUri": "http://localhost:8081/artifactory/libs-release-local/my/jar/1.0/jar-1.0.jar",
  "repo": "libs-release-local",
  "path": "/my/jar/1.0/jar-1.0.jar",
  "created": ISO8601 (yyyy-MM-dd'T'HH:mm:ss.SSSZ),
  "createdBy": "userY",
  "size": "1024", //bytes
  "mimeType": "application/java-archive",
  "checksums": {
    "md5" : string,
    "sha1" : string
  },
  "originalChecksums": {
    "md5" : string,
    "sha1" : string
  }
}
```

```
    }  
}
```

**Status Codes:**

Status	Description
201	Created
404	Not Found
409	Duplicate/Conflict

### 2.3.5.2 | Deploy Artifact by Checksum

**Description:** Deploy an artifact to the specified destination by checking if the artifact content already exists in Artifactory.

If Artifactory already contains a user-readable artifact with the same checksum the artifact content is copied over to the new location and returns a response without requiring content transfer.

Otherwise, a 404 error is returned to indicate that content upload is expected in order to deploy the artifact.

If the **X-Cchecksum-Deploy** header is set to false, the artifact will be uploaded successfully with a 201 response, even if it didn't exist before, and submitted checksums will have status **Uploaded: Identical**.

**Notes:** You can also Attach Properties as part of deploying artifacts.

**Security:** Requires a user with 'deploy' permissions (can be anonymous)

**Usage:** PUT /repo-key/path/to/artifact.ext

**Headers:** X-Cchecksum-Deploy: true, X-Cchecksum-Sha1: sha1Value, X-Cchecksum-Sha256: sha256Value, X-Cchecksum: checksum value (type is resolved by length)

**Produces:** application/json (application/vnd.org.jfrog.artifactory.storage.ItemCreated+json)

**Since:** 2.5.1

**Sample Output:**

```
PUT /libs-release-local/my/jar/1.0/jar-1.0.jar  
{  
  "uri": "http://localhost:8081/artifactory/libs-release-local/my/jar/1.0/jar-1.0.jar",  
  "downloadUri": "http://localhost:8081/artifactory/libs-release-local/my/jar/1.0/jar-1.0.jar",  
  "repo": "libs-release-local",  
  "path": "/my/jar/1.0/jar-1.0.jar",  
  "created": "2016-01-01T12:00:00.000Z",  
  "createdBy": "userY",  
  "size": "1024", //bytes  
  "mimeType": "application/java-archive",  
  "checksums":  
  {  
    "md5" : string,  
    "sha1" : string  
  },  
  "originalChecksums":{  
    "md5" : string,  
    "sha1" : string  
  }  
}
```

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### 2.3.5.3 | Deploy Artifacts from Archive

**Description:** Deploys an archive containing multiple artifacts and extracts it at the specified destination maintaining the archive's file structure.

Deployment is performed in a single HTTP request and only the extracted content is deployed, not the archive file itself.

By default, deployment of artifacts is performed sequentially. However, from Artifactory 7.96.3 and later versions, deploying artifacts can also be performed in multiple parallel threads by means of the system parameter `artifactory=explode.archive.threads`. For example, if you set `artifactory=explode.archive.threads=10`, the deployment of the artifacts contained in the archive will be performed in 10 parallel threads per archive file and this can save considerable time for large archive files.

Supported archive types are: zip; tar; tar.gz; and tgz. If the archive is omitted from the call, a response of "100 - Continue" is returned.

#### Note

- Requires Artifactory Pro.
- Deployment of compressed archives (unlike tar) may incur considerable CPU overhead.

**Security:** Requires a user with 'deploy' permissions (can be anonymous)

**Usage:** PUT /path1/to/repo-key/ /path2/to/archive.zip

**Headers:** X-Explode-Archive: true - archive will be exploded upon deployment, X-Explode-Archive-Atomic: true - archive will be exploded in an atomic operation upon deployment.

**Produces:** text/plain

**Since:** 2.6.3

#### Sample Usage:

```
PUT /libs-release-local/ /Users/user/Desktop/archive.zip
```

### 2.3.6 | Get Folder Info

**Description:** Returns folder information.

For virtual use, the virtual repository returns the unified children. Supported by local, local-cached and virtual repositories.

**Since:** 2.2.0

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /api/storage/{repoKey}/{folder-path}

**Produces:** application/json (application/vnd.org.jfrog.artifactory.storage.FolderInfo+json)

#### Sample Output:

```
GET /api/storage/libs-release-local/org/acme
{
  "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme",
  "repo": "libs-release-local",
  "path": "/org/acme",
  "created": ISO8601 (yyyy-MM-dd'T'HH:mm:ss.SSSZ),
  "createdBy": "userY",
  "lastModified": ISO8601 (yyyy-MM-dd'T'HH:mm:ss.SSSZ),
  "modifiedBy": "userX",
  "lastUpdated": ISO8601 (yyyy-MM-dd'T'HH:mm:ss.SSSZ),
  "children": [
    {
      "uri" : "/child1",
      "folder" : "true"
    },
    {
      "uri" : "/child2",
      "folder" : "false"
    }
  ]
}
```

```
]  
}
```

### 2.3.7 | Get File Info

**Description:** Returns file information.

For virtual use the virtual repository returns the resolved file. Supported by local, local-cached and virtual repositories.

**Since:** 2.2.0

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /api/storage/{repoKey}/{filePath}

**Produces:** application/json (application/vnd.org.jfrog.artifactory.storage.FileInfo+json)

**Sample Output:**

```
GET /api/storage/libs-release-local/org/acme/lib/ver/lib-ver.pom
{
  "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme/lib/ver/lib-ver.pom",
  "downloadUri": "http://localhost:8081/artifactory/libs-release-local/org/acme/lib/ver/lib-ver.pom",
  "repo": "libs-release-local",
  "path": "/org/acme/lib/ver/lib-ver.pom",
  "remoteUrl": "http://some-remote-repo/mvn/org/acme/lib/ver/lib-ver.pom",
  "created": ISO8601 (yyyy-MM-dd'T'HH:mm:ss.SSSZ),
  "createdBy": "userY",
  "lastModified": ISO8601 (yyyy-MM-dd'T'HH:mm:ss.SSSZ),
  "modifiedBy": "userX",
  "lastUpdated": ISO8601 (yyyy-MM-dd'T'HH:mm:ss.SSSZ),
  "size": "1024", //bytes
  "mimeType": "application/pom+xml",
  "checksums": {
    "md5" : string,
    "sha1" : string,
    "sha256" : string
  },
  "originalChecksums":{
    "md5" : string,
    "sha1" : string,
    "sha256" : string
  }
}
```

### 2.3.8 | Get Storage Summary Info

**Description:** Returns storage summary information regarding binaries, file store and repositories.

**Since:** 4.2.0

**Security:** Requires a privileged user (Admin only)

**Usage:** GET /api/storageinfo

**Produces:** application/json

**Sample Output:**

```
GET /api/storageinfo
{
  "binariesSummary" : {
    "binariesCount" : "125,726" ,
    "binariesSize" : "3.48 GB" ,
    "artifactsSize" : "59.77 GB" ,
    "optimization" : "5.82%" ,
```

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```
"itemsCount" : "2,176,580" ,  
"artifactsCount" : "2,084,408"  
,  
"fileStoreSummary" : {  
    "storageType" : "filesystem" ,  
    "storageDirectory" : "/home/.../artifactory/devenv/.artifactory/data/filestore" ,  
    "totalSpace" : "204.28 GB" ,  
    "usedSpace" : "32.22 GB (15.77%)" ,  
    "freeSpace" : "172.06 GB (84.23%)"  
,  
"repositoriesSummaryList" : [  
    {  
        "repoKey" : "plugins-release" ,  
        "repoType" : "VIRTUAL" ,  
        "foldersCount" : 0 ,  
        "filesCount" : 0 ,  
        "usedSpace" : "0 bytes" ,  
        "itemsCount" : 0 ,  
        "packageType" : "Maven" ,  
        "percentage" : "0%"  
,  
    },  
    {  
        "repoKey" : "repo" ,  
        "repoType" : "VIRTUAL" ,  
        "foldersCount" : 0 ,  
        "filesCount" : 0 ,  
        "usedSpace" : "0 bytes" ,  
        "itemsCount" : 0 ,  
        "packageType" : "Generic" ,  
        "percentage" : "0%"  
,  
    },  
    ...  
    {  
        "repoKey" : "TOTAL" ,  
        "repoType" : "NA" ,  
        "foldersCount" : 92172 ,  
        "filesCount" : 2084408 ,  
        "usedSpace" : "59.77 GB" ,  
        "itemsCount" : 2176580  
    }  
]  
}
```

### 2.3.9 | Refresh Storage Summary Info

**Description:** Refreshes storage summary information regarding binaries, file store and repositories.

**Since:** 6.17.0

**Security:** Requires a privileged user (Admin only)

**Usage:** POST /api/storageinfo/calculate

**Produces:** application/json

### 2.3.10 | Get Last Modified Item

**Description:** Returns the last modified item at the given path. If the given path is a folder, the latest last modified item is searched for recursively. Supported by local and local-cached repositories.

**Since:** 2.2.5

**Notes:** Requires Artifactory Pro

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**Security:** Requires a valid user with deploy permissions

**Usage:** GET /api/storage/{repoKey}/{item-path}?lastModified

**Produces:** application/json (application/vnd.org.jfrog.artifactory.storage.ItemLastModified+json)

**Sample Output:**

```
GET /api/storage/libs-release-local/org/acme?lastModified
{
  "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme/foo/1.0-SNAPSHOT/foo-1.0-SNAPSHOT.pom",
  "lastModified": ISO8601
}
```

## 2.3.11 | File Statistics

**Description:** Item statistics record the number of times an item was downloaded, last download date, and last downloader. Supported by local and local-cached repositories.

**Since:** 3.1.0

**Security:** Requires read privileges

**Usage:** GET /api/storage/{repoKey}/{item-path}?stats

**Produces:** application/json (application/vnd.org.jfrog.storageStatsInfo+json)

**Sample Output:**

```
GET /api/storage/libs-release-local/org/acme/foo/1.0/foo-1.0.jar?stats
{
  "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme/foo/1.0/foo-1.0.jar",
  "lastDownloaded": Timestamp (ms),
  "downloadCount": 1337,
  "lastDownloadedBy": "user1"
}
```

## 2.3.12 | Zap Cache

**Description:**

Zapping cache invalidates all cached metadata artifacts downloaded from central registries like pypi.org, repo1.maven.org, registry.npmjs.org and stored in remote repo cache to speed up remote repo actions.

**Note**

The zapping action does not invalidate immutable artifacts (like software binaries). As they are immutable, there is no need to bring them again from the central repository.

After Zapping, whenever an invalidated metadata artifact is needed, Artifactory refreshes it from the central registry first. If unavailable, it falls back to the stale version.

Zapping the cache may slow down for clients who download packages requiring stale metadata updates.

**Zapping cache solves:**

- **Resolving Cache Issues:** If there are problems with the cached packages artifacts, such as corruption or inconsistencies with the central repository, zapping the cache fixes these issues.

For zapping a cache via the UI, refer to Zapping Caches.

**Since:** 7.49.3

**Security:** Requires a privileged user, **Manage** or **Delete** permissions on the Remote Repository.

**Usage:** POST https://<host>/artifactory/api/zap/<repository-name>-cache/<repository-path>

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## Sample Usage:

```
POST https://localhost:8081/artifactory/api/zap/repo1-cache/com/acme-new
```

## Sample Output:

```
{"Message":"Completed zapping cache in path repo1-cache/com/acme-new"}
```

## 2.3.13 | Retrieve Artifact

**Description:** Returns an artifact from the specified destination. skipUpdateStats param allows skip stats update.

You can also use Using Properties in Deployment and Resolution as part of retrieving artifacts.

**Security:** Requires a user with 'read' permission (can be anonymous)

**Usage:** GET /repo-key/path/to/artifact.ext?[skipUpdateStats=true]

## Sample Usage:

```
GET http://localhost:8081/artifactory/libs-release-local/ch/qos/logback/logback-classic/0.9.9/logback-classic-0.9.9.jar?  
skipUpdateStats=true
```

## 2.3.14 | Retrieve Latest Artifact

**Description:** Returns the latest artifact version from the specified destination.

**Latest Maven Release/Integration :** Specify SNAPSHOT or [RELEASE] for the version in the requested path to get the latest Maven integration or release artifact.

**Latest Non-Maven Release/Integration :** Specify [INTEGRATION] and [RELEASE] for the version in the requested path, (replacing [folderItegRev] and [fileItegRev] ),

as defined by the repository's Repository Layouts) to get the latest integration version or latest release version artifact accordingly based on alphabetical sorting.

Integration and release tokens cannot be mixed together.

You can also use Using Properties in Deployment and Resolution as part of retrieving artifacts to restrict the resolution of artifacts assigned with specific properties.

## NOTE:

- Only local, cache and virtual repositories will be used.
- To change the retrieve latest behavior to retrieve the latest version based on the created date you can add the following flag to \$JFROG\_HOME/artifactory/var/etc/artifactory/artifactory.system.properties and add the following flag **artifactory.request.searchLatestReleaseByDateCreated=true** and restart Artifactory service.
- Both [folderItegRev] and [fileItegRev] have to be defined in the repository layout.

**Notes:** Requires Artifactory Pro.

**Since:** Latest Maven: 2.6.0; Latest non-Maven: 2.6.2

**Security:** Requires a user with 'read' permission (can be anonymous)

**Usage:** GET /repo-key/path/to/artifact.ext

## Sample Usage:

Download the latest Maven unique snapshot artifact:

```
GET http://localhost:8081/artifactory/libs-release-local/ch/qos/logback/logback-classic/0.9.9-SNAPSHOT/logback-classic-0.9.9-  
SNAPSHOT.jar
```

Download the latest release artifact:

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GET http://localhost:8081/artifactory/ivy-local/org/acme/[RELEASE]/acme-[RELEASE].jar

Download the latest integration artifact:

GET http://localhost:8081/artifactory/ivy-local/org/acme/1.0-[INTEGRATION]/acme-1.0-[INTEGRATION].jar

### 2.3.15 | Retrieve Build Artifacts Archive

**Description:** Returns an archive file (supports zip/tar/tar.gz/tgz) containing all the artifacts related to a specific build, you can optionally provide mappings to filter the results; the mappings support regexp capturing groups which enables you to dynamically construct the target path inside the result archive file.

**Notes:** Requires Artifactory Pro

**Since:** 2.6.5

**Security:** Requires a privileged user (can be anonymous)

**Usage:** POST /api/archive/buildArtifacts -H "Content-Type: application/json"

**Consumes:** application/json (application/vnd.org.jfrog.artifactory.build.BuildArtifactsRequest+json)

**Produces:** application/zip (for zip archive type), application/x-tar (for tar archive type), application/x-gzip (for tar.gz/tgz archive type)

**Sample Usage:**

```
POST /api/archive/buildArtifacts -H "Content-Type: application/json"
{
  +"buildName": "build-name" // The build name for search by
  +"buildNumber": "15" // The build number to search by, can be LATEST to search for the latest build number
  -"buildStatus": "Released" // Optionally search by latest build status (e.g: "Released")
  -"repos": ["libs-release-local,ext-release-local"] // Optionally refine search for specific repos, omit to search within all repositories
  +"archiveType": "tar/zip/tar.gz/tgz" // The archive file type to return
  -"mappings": [ // Optionally refine the search by providing a list of regexp patterns to search by
    {
      "input": "(.+)/(.+)-sources.jar",
      "output": "$1/sources/$2.jar" // Optionally provide different path of the found artifacts inside the result archive, supports regexp groups tokens
    },
    {
      "input": "(.+)-release.zip"
    }
  ]
}
```

### 2.3.16 | Retrieve Folder or Repository Archive

**Description:** Returns an archive file (supports zip/tar/tar.gz/tgz) containing all the artifacts that reside under the specified path (folder or repository root). Requires Enable Folder Download to be set. See Configuring Artifactory. From version 5.10, If any artifact in the folder is blocked for download by Xray, the whole folder download is blocked and this call will return an HTTP Forbidden (403) error.

**Notes:** Requires Artifactory Pro (Multiple downloads could be slow and CPU Intensive).

Downloading a folder or a repository's root is only supported for local (or cache) repositories.

**Since:** 4.1.0

**Security:** Requires a privileged user with read permissions on the path.

**Usage:** GET /api/archive/download/{repoKey}/{path}?archiveType={archiveType}[&includeChecksumFiles=true]

**Produces:** \*/\*

**Sample Usage:**

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```
GET /api/archive/download/my-local-repo/path/to/folder?archiveType=zip
{Stream containing contents of path my-local-repo/path/to/folder}

GET /api/archive/download/my-local-repo?archiveType=zip
{Stream containing contents of repo my-local-repo}
```

### 2.3.17 | Trace Artifact Retrieval

**Description:** Simulates an artifact retrieval request from the specified location and returns verbose output about the resolution process.

This API is useful for debugging artifact retrieval issues.

**Security:** As applied to standard artifact retrieval by the requesting user.

**Since:** 2.6.0

**Usage:** GET /repo-key/path/to/artifact.ext?trace

**Produces:** text/plain

**Sample Output:**

```
GET http://localhost:8081/artifactory/libs-release-local/jmock/jmock/1.0.1/jmock-1.0.1.jar?trace

Request ID: 51c808f6
Repo Path ID: libs-release-local:jmock/jmock/1.0.1/jmock-1.0.1.jar
Method Name: GET
User: resolver
Time: 2012-05-06T10:49:09.528+03:00
Thread: pool-1-thread-31
Steps:
2012-05-06T10:49:09.587+03:00 Received request
2012-05-06T10:49:09.588+03:00 Request source = 0:0:0:0:0:0:1, Last modified = 01-01-70 01:59:59 IST, If modified since = -1, Thread name = pool-1-thread-31
2012-05-06T10:49:09.697+03:00 Retrieving info
2012-05-06T10:49:09.723+03:00 Identified resource as a file
...
2012-05-06T10:49:09.788+03:00 Responding with selected content handle
2012-05-06T10:49:09.807+03:00 Request succeeded
```

### 2.3.18 | Archive Entry Download

**Description:** Returns an archived resource from the specified archive destination.

**Security:** Requires a user with 'read' permission (can be anonymous)

**Usage:** GET /repo-key/path/to/artifact.jar!/path/to/archived/resource

**Note**

The '!' must be between the archive file name and the archive entry path, and will not work without the '/' after the '!'.

**Sample Output:**

```
> curl <username:password> -XGET https://hts1.jfrog.io/artifactory/abhi-maven-libs-release-local/com/example/demo/0.0.3/demo-0.0.3.jar!-/META-INF/MANIFEST.MF
Manifest-Version: 1.0
Created-By: Maven Jar Plugin 3.2.0
Build-Jdk-Spec: 11
Implementation-Title: demo
Implementation-Version: 0.0.3
Main-Class: org.springframework.boot.loader.JarLauncher
Start-Class: com.jfrog.Calculator
Spring-Boot-Version: 2.6.0
Spring-Boot-Classes: BOOT-INF/classes/
Spring-Boot-Lib: BOOT-INF/lib/
```

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Spring-Boot-Classpath-Index: BOOT-INF/classpath.idx  
Spring-Boot-Layers-Index: BOOT-INF/layers.idx

### 2.3.19 | Create Directory

**Description:** Create new directory at the specified destination.

**Notes:** You can also Attach Properties as part of creating directories.

**Security:** Requires a user with 'deploy' permissions (can be anonymous)

**Usage:** PUT /repo-key/path/to/directory/

**Produces:** application/json (application/vnd.org.jfrog.artifactory.storage.ItemCreated+json)

**Sample Output:**

```
curl <username> -XPUT https://hts1.jfrog.io/artifactory/example/testfolder
{ "repo" : "example",
"path" : "/testfolder",
"created" : "2024-11-25T21:56:39.689Z",
"createdBy" : "rasul",
"downloadUri" : "https://hts1.jfrog.io/artifactory/example/testfolder",
"mimeType" : "application/octet-stream",
"size" : "0",
"checksums" : { "sha1" : "da39a3ee5e6b4b0d3255bfef95601890af80709",
"md5" : "d41d8cd98f00b204e9800998ecf8427e",
"sha256" : "e3b0c44298fc1c149afb4c8996fb92427ae41e4649b934ca495991b7852b855" },
"originalChecksums" : { "sha256" : "e3b0c44298fc1c149afb4c8996fb92427ae41e4649b934ca495991b7852b855" },
"uri" : "https://hts1.jfrog.io/artifactory/example/testfolder"
}%
```

### 2.3.20 | Push a Set of Artifacts to Bintray

**Deprecation Notice**

This endpoint is deprecated and is replaced with [Distribute Artifact](#).

**Description:** Push a set of artifacts to Bintray as a version.

Uses a descriptor file (that must have bintray-info in its filename and a .json extension) that was deployed to Artifactory, the call accepts the full path to the descriptor as a parameter.

Sigining a version is controlled by the gpgSign parameter in the descriptor file, and the gpgSign parameter passed to this command. **The value passed to this command always takes precedence over the value in the descriptor file.**

If you also want a passphrase to be applied to your signature, specify gpgPassphrase=<passphrase>.

**Security:** Requires a valid user with deploy permissions and Bintray credentials defined (for more details, please refer to User Profile).

**Usage:** POST /api/bintray/push?descriptor=pathToDescriptorFile[&gpgPassphrase=passphrase][&gpgSign=true\false]

**Since:** 3.5.0

**Produces:** application/json (application/vnd.org.jfrog.artifactory.bintray.BintrayPushResponse+json)

**Sample Output:**

```
{"Message": "Pushing build to Bintray finished successfully."}
```

### 2.3.21 | Control Build Retention

**Description:** Specifies retention parameters for build info

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**Since:** 5.2.1

**Note:** A promoted Build Info cannot be deleted using this API.

**Security:** Requires a privileged user. From version 6.6, requires *delete permission* for the build.

**Usage:** POST /api/build/retention/{buildName}?async=<true | false>

The async flag controls how the endpoint responds to the client regarding build operations. It determines whether the client will receive an immediate response or wait until the operation is complete.

- **async=true**

- Returns a response immediately to the client.
- The operation proceeds in the background.

- **async=false**

- Unless the configuration flag build.retention.always.async is set to true, the operation waits to complete before returning a response to the client.

**Consumes:** application/json

```
{  
    "deleteBuildArtifacts" : <true | false>,      // When true, automatically removes build artifacts stored in Artifactory  
    "count" : <count>,                                // The maximum number of builds to store in  
Artifactory.  
    "minimumBuildDate" : <date>,                      // Earliest build date to store in Artifactory - ISO8601  
(yyyy-MM-dd'T'HH:mm:ss.SSSZ)  
    "buildNumbersNotToBeDiscarded" : [ ]             // List of build numbers that should not be removed from Artifactory  
}
```

**Sample Usage:**

POST /api/build/retention/myBuild?async=true

```
{  
    "deleteBuildArtifacts" : true,  
    "count" : 100, //  
    "minimumBuildDate" : 1407345768020,  
    "buildNumbersNotToBeDiscarded" : [ 5, 9]  
}
```

## 2.3.22 | Create Signed URL

**Description:** Generates a signed url for the provided repository path, providing temporary access to download artifacts. User may provide expiry or valid\_for\_secs optional parameter. With a maximum timeframe of one year (365 days). Default expiry is 24 hours.

**Note**

- This API is available only to Artifactory Cloud Enterprise and Cloud Enterprise+ users.
- The JSON included in the request URL cannot include %20.

**Since:** Artifactory 7.5.0

**Security:** Requires a privileged user (admin or manage permission type)

**Usage:** POST /artifactory/api/signed/url

**Produces:** application/json (the string with the signed URL)

**Sample Usage:**

```
curl -X POST "https://hts1.jfrog.io/artifactory/api/signed/url" -H "Content-Type: application/json" <username:password> -d  
'{ "repo_path": "/example/openssl-1.0.1a.tgz", "valid_for_secs":10000 }'  
https://hts1.jfrog.io/artifactory/example/openssl-1.0.1a.tgz?  
sig=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJyYXN1bCIisInVpLnJlcXVlc3QiOiJmYWxzZSIsInN1bSI6IjgwMTFmYWYzMTCzNTUyYTdmMDkwYzM1NjQzMzFhMTF1
```

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NzJlMWU2YjdmNzRmYjkyMWE3M2MzY2VkJleHai0jE3NDawODQ3ODEsImlhCI6MTc0MDA3NDc4MX0.KRk904Qr8tP1x5Xf7wWTQgshYjowi2Xn1VHfDd-MuFE%

repo_path	Full path to the artifact.
valid_for_secs	Number of seconds since generation before the URL expires.
expiry	An expiry date for the URL after which the URL will be invalid, expiry value is in Unix epoch time in milliseconds.

### Example Download resource using the signed URL:

```
curl "https://name.jfrog.io/artifactory/example-repo-local/1.java?  
sig=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJlbGlnIiwic3VtIjoiY2QwZjRiMGY4ODQ0Y2VjN2M20WI2NWI4ZTA4NTVjNmE0ZDgzMDE1OTE0NDEwN2E5YTcz0Thl  
NWM5MDY3MTBiNyIsImV4cCI6MTU0NzM5MTgyNiwiaWF0IjoxNTQ3MzgxODI2fQ.PLCBys1185H9foAtxabrMBbCZ21BtcJmYORWxXS6Mmw"
```

### 2.3.23 | Replace Signed URL Key

**Description:** Replaces the key for signing and validating signed URLs. This will invalidate any signed URLs previously created.

**Note:** This feature is available only for Artifactory Cloud Enterprise and Enterprise+ users.

**Since:** Artifactory 7.5.0

**Security:** Requires a privileged user (admin)

**Usage:** POST /artifactory/api/signed/url/key

**Sample Usage:**

```
curl -X POST "http://localhost:8080/artifactory/api/signed/url/key"  
  
201 (Success)
```

### 2.3.24 | Distribute Artifact

**Description:** Deploys artifacts from Artifactory to Bintray, and creates an entry in the corresponding Artifactory distribution repository specified

**Notes:** Requires Artifactory Pro

**Since:** 4.8

**Security:** Requires an authenticated user.

**Usage:** POST /api/distribute

**Consumes:** application/json

```
{  
    "publish" : "<true | false>" // Default: true. If true, artifacts are published when deployed to  
Bintray  
    "overrideExistingFiles" : "<true | false>" // Default: false. If true, Artifactory overwrites files already  
existing in the target path in Bintray. // Existing version attributes are also overridden if defined in the  
distribution repository Advanced Configuration  
    "gpgPassphrase" : "<passphrase>" // If specified, Artifactory will GPG sign the version deployed to  
Bintray and apply the specified passphrase  
    "async" : "<true | false>" // Default: false. If true, the artifact will be distributed  
asynchronously. Errors and warnings may be viewed in the log file  
    "targetRepo" : "<targetDistributionRepo>", // The Distribution Repository into which artifacts should be deployed
```

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```
"packagesRepoPaths" : ["<localRepo/path/to/distribute>", "<distRepo/path/to/distribute>"]      // An array of local or
distribution repositories and corresponding paths to artifacts that should be deployed to the specified target repository in
Bintray
  "dryRun" : "<true | false>"                                // Default: false. If true, distribution is only simulated. No files
are actually moved.
}
```

### Sample input:

```
POST /api/distribute
{
  "targetRepo" : "dist-repo-jfrog-artifactory",
  "packagesRepoPaths" : ["yum-local/jfrog-artifactory-pro-4.7.6.rpm"]
}
```

## 2.3.25 | File Compliance Info (Deprecated)

**Description:** Get compliance info for a given artifact path. The result includes license and vulnerabilities if any. Supported by local and local-cached repositories.

**Notes:** This API is deprecated from version 5.0.

**Since:** 3.0.0

**Security:** Requires an authenticated user.

**Usage:** GET: /api/compliance/{repoKey}/{item-path}

**Produces:** application/json

### Sample output:

```
GET: /api/compliance/libs-release-local/ch/qos/logback/logback-classic/0.9.9/logback-classic-0.9.9.jar
{
  "licenses" : [ {"name":"LGPL v3", "url": "http://"}, {"name":"APL v2", "url": "http://"}... ],
  "vulnerabilities" : [ {"name":"CVE-13427", "url": "http://"}, {"name":"CVE-1041", "url": "http://"}... ]
}
```

## 2.3.26 | Delete Item

**Description:** Deletes a file or a folder from the specified local repository or remote repository cache.

**Security:** Requires a user with 'delete' permission (can be anonymous)

**Usage:** DELETE /repo-key/path/to/file-or-folder

### Sample Usage:

For local repositories:

```
DELETE http://localhost:8081/artifactory/libs-release-local/ch/qos/logback/logback-classic/0.9.9
```

For remote repositories:

```
DELETE http://localhost:8081/artifactory/libs-release-remote-cache/ch/qos/logback/logback-classic/0.9.9
```

## 2.3.27 | Copy Item

**Description:** Copy an artifact or a folder to the specified destination. Supported for local, remote and Federated repositories only.

Optionally suppress cross-layout module path translation during copy.

You can test the copy using a dry run.

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Copy item behaves similarly to a standard file system and supports renames. If the target path does not exist, the source item is copied and optionally renamed. Otherwise, if the target exists and it is a directory,

the source is copied and placed under the target directory.

**Notes:** Requires Artifactory Pro

**Security:** Requires a privileged user (can be anonymous)

**Usage:** POST /api/copy/{srcRepoKey}/{srcFilePath}?to=/targetRepoKey/{targetFilePath} [&dry=1] [&suppressLayouts=0/1(default)][&failFast=0/1]

**Produces:** application/json (application/vnd.org.jfrog.artifactory.storage.CopyOrMoveResult+json)

**Since:** 2.2.2

### Sample Output:

```
POST /api/copy/libs-release-local/org/acme?to=/ext-releases-local/org/acme-new&dry=1
```

```
{
  "messages": [
    {
      "level": "INFO",
      "message": "copying olegk-debian-local:nginx_1.22.0-3.1_all.deb to testdeb:nginx_1.22.0-3.1_all.deb completed successfully, 1 artifacts and 0 folders were copied"
    }
  ]
}
```

## 2.3.28 | Move Item

**Description:** Moves an artifact or a folder to the specified destination. Supported by local repositories only.

Optionally suppress cross-layout module path translation during move.

You can test the move using dry run.

Move item behaves similarly to a standard file system and supports renames. If the target path does not exist, the source item is moved and optionally renamed. Otherwise, if the target exists and it is a directory,

the source is moved and placed under the target directory.

**Notes:** Requires Artifactory Pro

**Security:** Requires a privileged user (can be anonymous)

**Usage:** POST /api/move/{srcRepoKey}/{srcFilePath}?to=/targetRepoKey/{targetFilePath} [&dry=1] [&suppressLayouts=0/1(default)][&failFast=0/1]

**Produces:** application/json (application/vnd.org.jfrog.artifactory.storage.CopyOrMoveResult+json)

**Since:** 2.2.2

### Sample Output:

```
POST /api/move/libs-release-local/org/acme?to=/ext-releases-local/org/acme-new&dry=1
```

```
{
  "messages": [
    {
      "level": "INFO",
      "message": "moving olegk-debian-local:nginx_1.22.0-3.1_all.deb to testdeb:nginx_1.22.0-3.1_all.deb completed successfully, 1 artifacts and 0 folders were moved"
    }
  ]
}
```

### 2.3.29 | Artifact Sync Download

**Description:** Downloads an artifact with or without returning the actual content to the client. When tracking the progress marks are printed (by default every 1024 bytes). This is extremely useful if you want to trigger downloads on a remote Artifactory server, for example to force eager cache population of large artifacts, but want to avoid the bandwidth consumption involved in transferring the artifacts to the triggering client. If no content parameter is specified the file content is downloaded to the client.

**Notes:** This API requires Artifactory Pro.

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /api/download/{repoKey}/{filePath}[?content=none/progress][&mark=numOfBytesToPrintANewProgressMark]

**Produces:** application/octet-stream, text/plain (depending on content type)

**Since:** 2.2.2

**Sample Output:**

```
GET /api/download/my-remote/org/acme/1.0/acme-1.0.jar?content=progress&mark=512
```

```
.....  
.....  
.....
```

Completed: 150/340 bytes

### 2.3.30 | Folder Sync (Deprecated)

**Description:** Triggers a no-content download of artifacts from a remote Artifactory repository for all artifacts under the specified remote folder. Can optionally delete local files if they do not exist in the remote folder,

overwrite local files only if they are older than remote files or never overwrite local files.

The default is not to delete any local files and to overwrite older local files with remote ones. By default progress marks of the sync are displayed. The default timeout for the remote file list is 15000 milliseconds (15 seconds).

**Notes:** This API is **deprecated**. Requires Artifactory Pro

**Security:** Requires a privileged user (can be anonymous) For non-admin users will replicate at max the number of files as defined by the artifactory.search.userQueryLimit system property.

**Usage:** GET /api-sync/{remoteRepositoryKey}/{folderPath}[?progress=showProgress][&mark=numOfBytesToPrintANewProgressMark][&delete=deleteExistingFiles][&overwrite=never/force][&timeout=fileListTimeoutInMillis]

**Produces:** text/plain

**Since:** 2.2.4

**Sample Output:**

```
GET /api-sync/my-remote/org/acme/1.0?progress=1&delete=1
```

```
.....  
.....  
.....  
.....
```

Completed: 970/1702 bytes

```
.....  
.....  
.....
```

Completed: 1702/1702 bytes

Completed with 0 errors and 2 warnings (please check the server log for more details).

### 2.3.31 | File List

**Description:** Get a flat (the default) or deep listing of the files and folders (not included by default) within a folder.

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For deep listing you can specify an optional depth to limit the results.

Optionally include a map of metadata timestamp values as part of the result (only properties are displayed in since 3.0.0).

folder inclusion since 2.3.2; checksum inclusion since: 2.3.3; include folder root path since: 2.5.2. Supported by all types of repositories.

**Since:** 2.2.4

**Notes:** Requires Artifactory Pro

**Security:** Requires a non-anonymous privileged user.

**Usage:** GET /artifactory/api/storage/{repoKey}/{folder-path}?list[&deep=0/1][&depth=n][&listFolders=0/1][&mdTimestamps=0/1][&includeRootPath=0/1]

**Produces:** application/json (application/vnd.org.jfrog.artifactory.storage.FileList+json)

**Sample Output:**

```
GET /artifactory/api/storage/libs-release-local/org/acme?list&deep=1&listFolders=1&mdTimestamps=1
{
  "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme",
  "created": ISO8601,
  "files" : [
    {
      "uri": "/archived",
      "size": "-1",
      "lastModified": ISO8601,
      "folder": "true"
    },
    {
      "uri": "/doc.txt",
      "size": "253207", //bytes
      "lastModified": ISO8601,
      "folder": "false",
      "sha1": sha1Checksum,
      "mdTimestamps": { "properties" : lastModified (ISO8601) }
    },
    {
      "uri": "/archived/doc1.txt",
      "size": "253100", //bytes
      "lastModified": ISO8601,
      "folder": "false",
      "sha1": sha1Checksum,
      "mdTimestamps": { "properties" : lastModified (ISO8601) }
    },
    ...
  ]
}
```

### 2.3.32 | Get Background Tasks

**Description:** Returns list of background tasks currently scheduled or running in Artifactory. In HA, the nodeld is added to each task. Task can be in one of few states: scheduled, running, stopped, cancelled. Running task also shows the task start time.

**Since:** 4.4.0

**Security:** Requires a valid admin user

**Usage:** GET /api/tasks

**Produces:** application/json

**Sample Output:**

```
{
  "tasks" : [ {
    "id" : "artifactory.UpdateIndicesJob#d7321feb-6fd9-4e27-8f0e-954137be855b",
    "type" : "org.artifactory.addon.gems.index.GemsVirtualIndexHandler$UpdateIndicesJob",
    "state" : "scheduled",
    "start_time" : null
  }
]
```

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```
"description" : "Gems Virtual Repositories Index Calculator",
"nodeId" : "artifactory-primary"
}, {
"id" : "artifactory.VirtualCacheCleanupJob#82bb1514-ea34-4a71-940d-78a61887981e",
"type" : "org.artifactory.repo.cleanup.VirtualCacheCleanupJob",
"state" : "scheduled",
"description" : "",
"nodeId" : "artifactory-primary"
}, {
"id" : "artifactory.BinaryStoreGarbageCollectorJob#039664ac-990d-4a32-85e1-decd0b508142",
"type" : "org.artifactory.storage.binstore.service.BinaryStoreGarbageCollectorJob",
"state" : "running",
"started" : "2015-05-15T15:39:37.566+02:00"
"description" : "Binaries Garbage Collector",
"nodeId" : "artifactory-primary"
} ]
}
```

## 2.3.33 | Get RubyGem Version List

**Description:** Returns the list of versions and other metadata associated with a specific Ruby gem.

**Since:** 7.49.3

**Security:** Requires an authenticated user.

**Usage:** GET /artifactory/api/gems/{repoName}/api/v1/versions/{gemName}.<json|yaml>

**Produces:** application/json or application/yaml

**Sample Output:**

```
[
{
  "authors": "Jason Frey, Mo Morsi, Joe Rafaniello, Ken Dreyer, Achilleas Pipinellis, Josef Stribny, Dominic Cleal",
  "built_at": "2015-08-03T00:00:00.000Z",
  "created_at": "2015-08-03T16:44:53.922Z",
  "description": "General API and utility scripts to manipulate and query ruby gems and projects after being published",
  "downloads_count": 3134,
  "metadata": {},
  "number": "0.11.1",
  "summary": "Ruby Project Post-Publishing Processor",
  "platform": "ruby",
  "ruby_version": ">= 0",
  "prerelease": false,
  "licenses": [
    "MIT"
  ],
  "requirements": [
    "json (RubyGem)",
    "curb (RubyGem)",
    "i18n (RubyGem)",
    "pkgwat (RubyGem)",
    "awesome_spawn (RubyGem)",
    "gem2rpm (RubyGem)",
    "versionomy (RubyGem)",
    "vcr (RubyGem)",
    "webmock (RubyGem)",
    "git",
    "diff",
    "fedpkg",
    "md5sum",
    "koji",
    "yum",
    "rpmdev-packager (from rpmdevtools)"
  ],
  "sha": "7a89428951ecd4a19797efbf4e52f93d1c76f3e97f168615de435b16e150a8c"
}
```

```
    }  
]
```

### 2.3.34 | Get the Open Metrics for Artifactory

**Description:** Returns the open metrics collected for Artifactory.

**Security:** Requires an admin user

**Usage:** GET /api/v1/metrics

**Produces:** text/plain (in Open Metrics format)

**Sample Usage:**

```
GET /api/v1/metrics

If metrics is not enabled - empty text.  
If enabled :  
# HELP sys_cpu_totaltime_seconds Total cpu time from the threads in seconds  
# UPDATED sys_cpu_totaltime_seconds 1595837402515  
# TYPE sys_cpu_totaltime_seconds gauge  
sys_cpu_totaltime_seconds 129.909 1595837402516  
# HELP app_disk_total_bytes Used bytes for app home directory disk device  
# UPDATED app_disk_total_bytes 1595837402515  
# TYPE app_disk_total_bytes gauge  
app_disk_total_bytes 1.038806e+11 1595837402516  
# HELP app_disk_free_bytes Free bytes for app home directory disk device  
# UPDATED app_disk_free_bytes 1595837402515  
# TYPE app_disk_free_bytes gauge  
app_disk_free_bytes 1.009052e+11 1595837402516  
# HELP jfrt_artifacts_gc_duration_seconds Time taken for garbage collection  
# UPDATED jfrt_artifacts_gc_duration_seconds 1595837402515  
# TYPE jfrt_artifacts_gc_duration_seconds gauge  
jfrt_artifacts_gc_duration_seconds{end="1595837400008",start="1595837400001",status="COMPLETED",type="TRASH_AND_BINARIES"}  
0.007 1595837402516  
# UPDATED jfrt_http_connections_available_total 1602763596303  
jfrt_http_connections_available_total{max="50",pool="insight-remote-1602763529314"} 46 1602763596305  
# UPDATED jfrt_http_connections_leased_total 1602763596303  
jfrt_http_connections_leased_total{max="50",pool="insight-remote-1602763529314"} 0 1602763596305  
# UPDATED jfrt_http_connections_pending_total 1602763596303  
jfrt_http_connections_pending_total{max="50",pool="insight-remote-1602763529314"} 0 1602763596305  
# UPDATED jfrt_http_connections_max_total 1602763596303  
jfrt_http_connections_max_total{max="50",pool="insight-remote-1602763529314"} 50 1602763596305  
# UPDATED jfrt_runtime_heap_freememory_bytes 1602763596303  
jfrt_runtime_heap_freememory_bytes 9.229538e+08 1602763596305  
# UPDATED jfrt_runtime_heap_maxmemory_bytes 1602763596303  
jfrt_runtime_heap_maxmemory_bytes 2.147484e+09 1602763596305  
# UPDATED jfrt_runtime_heap_totalmemory_bytes 1602763596303  
jfrt_runtime_heap_totalmemory_bytes 2.147484e+09 1602763596305  
# UPDATED jfrt_runtime_heap_processors_total 1602763596303  
jfrt_runtime_heap_processors_total 4 1602763596305  
# UPDATED sys_cpu_totaltime_seconds 1602763596305  
sys_cpu_totaltime_seconds 1576.388 1602763596305  
# UPDATED app_disk_total_bytes 1602763596301  
app_disk_total_bytes 1.038806e+11 1602763596305  
# UPDATED app_disk_free_bytes 1602763596301  
app_disk_free_bytes 9.599553e+10 1602763596305
```

### 2.3.35 | Optimize System Storage

**Description:**

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- **From Artifactory Self-Hosted 4.6.0 to 7.98.x:** Raises a flag to invoke balancing between redundant storage units of a shared filestore following the next full garbage collection.
- **From Artifactory Self-Hosted 7.104.5 and later:** Immediately triggers balancing between redundant storage units of a sharded filestore. If balancing is already running, the process is skipped.

**Since:** 4.6.0

**Notes:** This is an advanced feature intended for administrators.

**Security:** Requires a valid admin user.

**Usage:** POST /api/system/storage/optimize

**Produces:** text/plain

**Sample Usage:**

```
POST /api/system/storage/optimize
```

```
200 OK
```

## 2.4 | RELEASE LIFECYCLE MANAGEMENT

The REST APIs for Release Lifecycle Management are divided into the following categories:

- Release Bundle V2 APIs
- Release Bundle V2 Promotion APIs
- Release Bundle V2 Distribution APIs

### Note

See [Common Optional Query Parameters](#) for a list of query parameters that are available for all Release Lifecycle Management APIs.

### 2.4.1 | Release Bundle V2 APIs

This section includes the following APIs:

- [Create Release Bundle v2 Version](#)
- [Get Release Bundle v2 Names](#)
- [Get Release Bundle v2 Groups](#)
- [Get Release Bundle v2 Versions](#)
- [Get Release Bundle v2 Version Details](#)
- [Get Release Bundle v2 Versions with a Specific Artifact](#)
- [Get Release Bundle v2 Versions in a Specific Environment](#)
- [Get Release Bundle v2 Version Signature](#)
- [Get Release Bundle v2 Version Status](#)
- [Delete Release Bundle v2 Version](#)

#### 2.4.1.1 | Create Release Bundle v2 Version

**Description:** Creates a new Release Bundle v2, uniquely identified by a combination of repository key, name, and version. For more information, see [Understanding Release Bundles v2](#).

**Since:** 7.63.2

**Usage:** POST /lifecycle/api/v2/release\_bundle

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## Usage restrictions:

- The {name} string is limited to 128 characters.
- The {version} string is limited to 32 characters.
- The {name} and {version} strings must begin with a letter, digit, or underscore.
- The {name} and {version} strings must consist only of letters, digits, underscores, periods, and hyphens.

## Query Parameters (optional):

Field	Type	Description
async	boolean	Determines whether the operation should be asynchronous (true) or synchronous (false). The default value is "true".

## Note

See [Common Optional Query Parameters](#) for additional query parameters that are available for all Release Lifecycle Management APIs.

**Request Header:** X-JFrog-Signing-Key-Name (key-pair name to use for signature creation)

## Note

See [Create Key Pair](#) for instructions about creating the key pair in Artifactory.

If the Release Bundle is intended for distribution using JFrog Distribution, you must propagate the key pair from Artifactory to the Distribution Edge nodes. For more information, see [Propagate Public Signing Key](#).

The creation and distribution action will fail if the signing key has expired.

If you do not specify a key in the header, Artifactory will use a default key named **default-rsa-key**.

**Consumes:** application/json

You can create a Release Bundle version using any of the following source types:

- Source Type - AQL
- Source Type - Artifacts
- Source Type - Builds
- Source Type - Release Bundles

## Sample Response:

```
{  
  "repository_key": "release-bundles-v2",  
  "release_bundle_name": "Commons-Bundle",  
  "release_bundle_version": "1.0.0",  
  "created": "2023-05-18T07:41:47.023Z"  
}
```

## Status Codes:

Code	Description
200	Submitted (async)

Code	Description
201	Created (sync)
400	Bad Request
401	Bad Credentials
403	Permission Denied
404	Not Found
409	Already Exists

#### 2.4.1.1.1 | Source Type - AQL

Use this source type to create a Release Bundle v2 version by collecting source artifacts from an AQL query result.

**Security:** Requires Read permissions to source artifact repository paths; requires Read and Create permissions to the Release Bundles.

#### Note

A complex AQL query may result in a time-consuming operation. Consider using asynchronous mode in such cases.

**Usage restrictions:** See [here](#) for details.

**Sample Usage:** POST /lifecycle/api/v2/release\_bundle?project=default&async=false --header 'X-JFrog-Signing-Key-Name: my-signing-key' -H 'Content-Type: application/json' --upload-file aql.json

**Consumes:** application/json

#### Sample Request:

```
{
  "release_bundle_name": "Commons-Bundle",
  "release_bundle_version": "1.0.0",
  "skip_docker_manifest_resolution": false,
  "source_type": "aql",
  "source": {
    "aql": "items.find({$and} : [{repo: {$match}: \"repository-prefix-*\"}, {name: {$match}: \"artifact-prefix-*\"}}])"
  }
}
```

The request includes the following information:

Property	Description
source_type	Should be set to aql.
source.aql	The contents of the AQL query.

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Property	Description
skip_docker_manifest_resolution	Determines whether to skip the resolution of the Docker manifest, which adds the image layers to the Release Bundle.  The default value is <code>false</code> (the manifest is resolved and image layers are included).

**Sample Response:** See [here](#) for an example.

### 2.4.1.1.2 | Source Type - Artifacts

Use this source type to create a Release Bundle v2 version by collecting source artifacts from a list of path/checksum pairs. The source path of the artifacts must be a local or Federated repository.

#### Note

Starting with release 7.106.2, local repositories aggregated inside a virtual repository are also supported.

**Security:** Requires Read permissions to source artifact repository paths; requires Read and Create permissions to the Release Bundles.

**Usage restrictions:** See [here](#) for details.

**Sample Usage:** POST /lifecycle/api/v2/release\_bundle?project=default&async=false --header 'X-JFrog-Signing-Key-Name: my-signing-key' -H 'Content-Type: application/json' --upload-file artifacts.json

**Consumes:** application/json

#### Sample Request:

```
{  
    "release_bundle_name": "Commons-Bundle",  
    "release_bundle_version": "3.0.0",  
    "skip_docker_manifest_resolution": false,  
    "source_type": "artifacts",  
    "source": {  
        "artifacts": [  
            {  
                "path": "commons-dev-docker-local/commons/1.0.0/manifest.json",  
                "sha256": "35888e382c9a035a7e1aa25c22a42da73db4d5393f696e08891498e8e5aaa3e9"  
            },  
            {  
                "path": "commons-dev-maven-local/org/apache/tomcat/commons/1.0.0/commons-1.0.0.pom",  
                "sha256": "82a7fc9aa5d3edc1a32df11ecbece5177f0fe1ce2fed3caa6b18837176c1396a"  
            },  
            {  
                "path": "commons-dev-generic-local/commons/release-notes-1.0.0.txt",  
                "sha256": "f87e4c72e60300b451739d545afc0251a6e2f4bd1beaa1902ba739455897ecb8"  
            }  
        ]  
    }  
}
```

The request includes the following information:

Property	Description
source_type	Should be set to <code>artifacts</code> .

## JFrog REST APIs Displayed in the header

Property	Description
source.artifacts	The path for each artifact is mandatory. The sha256 is optional.
skip_docker_manifest_resolution	Determines whether to skip the resolution of the Docker manifest, which adds the image layers to the Release Bundle.  The default value is false (the manifest is resolved and image layers are included).

**Sample Response:** See [here](#) for an example.

### 2.4.1.1.3 | Source Type - Builds

Use this source type to create a Release Bundle v2 version by collecting source artifacts from one or multiple builds (also known as build-info).

By default, only build artifacts are included, not their dependencies. Dependencies located in local or Federated repositories can be included by adding the relevant property in the request body. Dependencies located in a remote cache repository can be included by copying them to a local repository before creating the Release Bundle.

If the list of builds contains aggregated builds (containing one or more nested builds), these builds are resolved and included recursively.

A build may optionally contain a Release Bundle manifest, which defines which build contents are included in the Release Bundle. A manifest may be linked to a build during its creation using the property buildInfo.env.RBV2\_MANIFEST. The manifest may be stored in any local or Federated repository and may be given an arbitrary file name. For more information, see [Release Bundle Manifest for Builds](#).

#### Note

To exclude selected artifacts in the build from the Release Bundle, see [Exclude Artifacts from a Release Bundle \(v2\)](#).

**Security:** Requires Read permissions to build-info path, source artifact repository paths, and (optionally) the build manifest repository path; requires Read and Create permissions to the Release Bundles.

**Usage restrictions:** See [here](#) for details.

**Sample Usage:** POST /lifecycle/api/v2/release\_bundle?project=default&async=false --header 'X-JFrog-Signing-Key-Name: my-signing-key' -H 'Content-Type: application/json' --upload-file builds.json

**Consumes:** application/json

#### Sample Request:

```
{  
    "release_bundle_name": "Commons-Bundle",  
    "release_bundle_version": "2.0.0",  
    "skip_docker_manifest_resolution": false,  
    "source_type": "builds",  
    "source": {  
        "builds": [  
            {  
                "build_repository": "artifactory-build-info",  
                "build_name": "Commons-Build",  
                "build_number": "1.0.1",  
                "build_started": "2023-04-05T07:00:00.000+0200",  
                "include_dependencies": false  
            }  
        ]  
    }  
}
```

The request includes the following information:

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Property	Description
build_name	Name of the build.
build_number	Number (run) of the build.
build_started	(Optional) Timestamp when the build was created. If omitted, the system uses the latest build run, as identified by the <code>build_name</code> and <code>build_number</code> combination.  The timestamp is provided according to the ISO 8601 standard.
build_repository	(Optional) The repository key of the build. If omitted, the system uses the default built-in repository, <code>artifactory-build-info</code> .
include_dependencies	Determines whether to include build dependencies in the Release Bundle. The default value is <code>false</code> .  <b>Important</b>  Dependencies must be located in local or Federated repositories to be included in the Release Bundle. Dependencies located in remote repositories are not supported.
skip_docker_manifest_resolution	Determines whether to skip the resolution of the Docker manifest, which adds the image layers to the Release Bundle.  The default value is <code>false</code> (the manifest is resolved and image layers are included).

**Sample Response:** See [here](#) for an example.

### 2.4.1.1.4 | Source Type - Release Bundles

Use this source type to create a Release Bundle v2 version by collecting source artifacts from existing Release Bundle versions.

#### Note

If a single source Release Bundle is specified, this is the equivalent of a "clone" operation. If multiple source Release Bundles are specified, this is the equivalent of a "merge" operation.

**Security:** Requires Read permissions to source Release Bundle paths; requires Read and Create permissions to the Release Bundles.

**Usage restrictions:** See [here](#) for details.

**Sample Usage:** POST /lifecycle/api/v2/release\_bundle?project=default&async=false --header 'X-JFrog-Signing-Key-Name: my-signing-key' -H 'Content-Type: application/json' --upload-file release-bundles.json

**Consumes:** application/json

#### Sample Request:

```
{
  "release_bundle_name": "Tomcat-Bundle",
  "release_bundle_version": "1.0.0",
  "skip_docker_manifest_resolution": false,
  "source_type": "release_bundles",
  "source": {
```

## JFrog REST APIs Displayed in the header

```
"release_bundles": [
    {
        "project_key": "default",
        "repository_key": "release-bundles-v2",
        "release_bundle_name": "Commons-Bundle",
        "release_bundle_version": "1.0.0"
    },
    {
        "project_key": "catalina",
        "repository_key": "catalina-release-bundles-v2",
        "release_bundle_name": "Catalina-Bundle",
        "release_bundle_version": "1.0.0"
    }
]
```

The request includes the following information:

Property	Description
source_type	Should be set to release_bundles.
skip_docker_manifest_resolution	Determines whether to skip the resolution of the Docker manifest, which adds the image layers to the Release Bundle.  The default value is false (the manifest is resolved and image layers are included).

### Note

Each source Release Bundle in the request body may include a repository key, a project key, or both to specify the context from which it must be selected.

**Sample Response:** See [here](#) for an example.

### 2.4.1.2 | Get Release Bundle v2 Names

**Description:** Returns a list of Release Bundle v2 names mapped to their repository key (and project key, where applicable).

**Since:** 7.63.2

**Security:** Requires Read permissions to Release Bundle paths. Forbidden Release Bundles are excluded from the results.

**Usage:** GET /lifecycle/api/v2/release\_bundle/names

**Query Parameters (optional):**

### Note

See [Common Optional Query Parameters](#) for the query parameters that are available for all Release Lifecycle Management APIs.

**Sample Response:**

```
{
    "release_bundles": [
        {
            "repository_key": "catalina-release-bundles-v2",
            "release_bundle_name": "Catalina-Bundle",
            "project_key": "catalina",
            "project_name": "Catalina"
        },
    ]}
```

# JFrog REST APIs Displayed in the header

```
{  
    "repository_key": "release-bundles-v2",  
    "release_bundle_name": "Commons-Bundle",  
    "project_key": "default",  
    "project_name": "Default"  
}  
]  
}
```

## Status Codes:

Code	Description
200	Fetched
401	Bad Credentials
403	Permission Denied

### 2.4.1.3 | Get Release Bundle v2 Groups

**Description:** Returns a list of Release Bundle v2 names mapped to their repository key. Each element includes the latest version and the total number of versions.

**Since:** 7.63.2

**Security:** Requires Read permissions to each target Release Bundle path. Release Bundles that are not permitted are excluded from the response.

**Usage:** GET /lifecycle/api/v2/release\_bundle/groups

#### Query Parameters (optional):

Field	Type	Description
offset	integer	Sets the number of records to skip before returning the query response. Used for pagination purposes.
limit	integer	Sets the maximum number of versions to return at one time. Used for pagination purposes.
filter_by	string	Defines a filter using a prefix of the Release Bundle name.
order_by {created createdMillis createdBy}	string	Defines the criterion by which to order the list of promotions: created (standard timestamp or milliseconds), createdBy

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Field	Type	Description
order_asc {true false}	boolean	<p>Defines whether to list the promotions in ascending (true) or descending (false) order.</p> <p>The default value is false.</p>

### Note

See [Common Optional Query Parameters](#) for additional query parameters that are available for all Release Lifecycle Management APIs.

### Sample Response:

```
{
  "release_bundles": [
    {
      "repository_key": "catalina-release-bundles-v2",
      "project_key": "catalina",
      "project_name": "Catalina",
      "service_id": "jfrt@01h0nvs1pwjtzs15x7kbtv1sve",
      "created": "2023-05-18T11:26:02.912Z",
      "release_bundle_name": "Catalina-Bundle",
      "release_bundle_version_latest": "1.0.0",
      "release_bundle_versions_count": 1
    },
    {
      "repository_key": "release-bundles-v2",
      "project_key": "default",
      "project_name": "Default",
      "service_id": "jfrt@01h0nvs1pwjtzs15x7kbtv1sve",
      "created": "2023-05-18T11:25:35.936Z",
      "release_bundle_name": "Commons-Bundle",
      "release_bundle_version_latest": "1.0.0",
      "release_bundle_versions_count": 1
    }
  ],
  "total": 2,
  "limit": 10,
  "offset": 0
}
```

### Status Codes:

Code	Description
200	Fetched

### 2.4.1.4 | Get Release Bundle v2 Versions

**Description:** Returns a list of versions for a specified Release Bundle v2. Records are provided regardless of status, including failed attempts at creation.

### Note

To get a list of versions for a specified Release Bundle **v1**, see [Get Release Bundle v1 Versions](#).

**Since:** 7.63.2

**Security:** Requires Read permissions to the target Release Bundle path.

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**Usage:** GET /lifecycle/api/v2/release\_bundle/records/{name}

## Query Parameters (optional):

Field	Type	Description
include {messages permissions}	string	messages: Returns any error messages generated when creating the Release Bundle version.  permissions: Returns the permission settings for promoting, distributing, and deleting these Release Bundle versions.
offset	integer	Sets the number of records to skip before returning the query response. Used for pagination purposes.
limit	integer	Sets the maximum number of versions to return at one time. Used for pagination purposes.
filter_by	string	Defines a filter for the list of Release Bundle versions.  You can filter according to release_bundle_version and created_by.
order_by {created created_by release_bundle_version}	string	Defines the criterion by which to order the list of Release Bundle versions: created, created_by, release_bundle_version
order_asc {true false}	boolean	Defines whether to list the Release Bundle versions in ascending (true) or descending (false) order.  The default value is false.

## Note

See [Common Optional Query Parameters](#) for additional query parameters that are available for all Release Lifecycle Management APIs.

## Sample Response:

```
{
  "release_bundles": [
    {
      "status": "FAILED",
      "repository_key": "release-bundles-v2",
      "release_bundle_name": "Commons-Bundle",
      "release_bundle_version": "1.0.1",
      "service_id": "jfrrt@01h0nvs1pwjtzs15x7kbtv1sve",
      "created_by": "admin",
      "created": "2023-05-18T11:40:51.848Z",
      "messages": [
        {
          "text": "Invalid AQL query for Release Bundle creation"
        }
      ],
      "permissions": {
        "promote": true,
        "distribute": true,
        "delete": true
      }
    }
  ]
}
```

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```
        "delete": false
    },
},
{
    "status": "COMPLETED",
    "repository_key": "release-bundles-v2",
    "release_bundle_name": "Commons-Bundle",
    "release_bundle_version": "1.0.0",
    "service_id": "jfrt@01h0nvs1pwjtzs15x7kbtv1sve",
    "created_by": "admin",
    "created": "2023-05-18T11:25:35.936Z",
    "permissions": {
        "promote": true,
        "distribute": true,
        "delete": false
    }
},
],
"total": 2,
"limit": 1000,
"offset": 0
}
```

The response includes the following information:

Property	Description
status	Status of the Release Bundle: STARTED, FAILED, COMPLETED, DELETING
created_by	The name of the user who created the Release Bundle.  <b>Note</b>  Names longer than 64 characters will appear truncated.
created	Timestamp when the new version was created (ISO 8601 standard).
messages	(Optional) Error messages related to the processing of the operation.
permissions	(Optional) Whether the user has permission to promote, distribute, and delete these Release Bundle versions.

### Status Codes:

Code	Description
200	Submitted (asynchronous)
401	Bad Credentials
403	Permission Denied

Code	Description
404	Not Found (repository/build)

#### 2.4.1.5 | Get Release Bundle v2 Version Details

**Description:** Returns the details of a selected Release Bundle v2 version, such as its creation time, the user who created it, the artifacts it includes, and so on. The details are stored in the form of a DSSE attestation, a signature envelope with a Base64-encoded payload, which contains a snapshot of the items in the Release Bundle.

**Since:** 7.63.2

**Security:** Requires Read permissions to the target Release Bundle path.

**Usage:** GET /lifecycle/api/v2/release\_bundle/records/{name}/{version}

**Query Parameters (optional):**

Field	Type	Description
offset	integer	Sets the number of records to skip before returning the query response. Used for pagination purposes. The default is 0.
limit	integer	Sets the maximum number of artifacts to return at one time. Used for pagination purposes.

#### Note

See [Common Optional Query Parameters](#) for additional query parameters that are available for all Release Lifecycle Management APIs.

#### Sample Response:

```
{
  "service_id": "jfrrt@01j800t90khnyz0mcy3py50r0d",
  "created_by": "admin",
  "created": "2024-09-17T13:25:55.013Z",
  "created_millis": 1726579555013,
  "total_artifacts_count": 16,
  "artifacts": [
    {
      "path": "catalina/1.0.1/sha256_cd46d47a0b5cca1b85334f6775120e58b676cb24b6bdf2c6328788b6336d1e04",
      "checksum": "cd46d47a0b5cca1b85334f6775120e58b676cb24b6bdf2c6328788b6336d1e04",
      "source_repository_key": "catalina-dev-docker-local",
      "package_type": "docker",
      "package_name": "catalina",
      "package_version": "1.0.1",
      "size": 206,
      "properties": [
        {
          "key": "build.name",
          "values": [
            "Catalina-Build"
          ]
        },
        {
          "key": "build.number",
          "values": [
            "1.0.1"
          ]
        }
      ]
    }
  ]
}
```

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```
        ]
    },
{
    "key": "build.timestamp",
    "values": [
        "1726579000304"
    ]
},
{
    "key": "sha256",
    "values": [
        "cd46d47a0b5cca1b85334f6775120e58b676cb24b6bdf2c6328788b6336d1e04"
    ]
}
],
{
    "path": "catalina/1.0.1/sha256_fee54f469a2a999a89cf8659ae0eb33450d675f11109093382a7142152cfe4ff",
    "checksum": "fee54f469a2a999a89cf8659ae0eb33450d675f11109093382a7142152cfe4ff",
    "source_repository_key": "catalina-dev-docker-local",
    "package_type": "docker",
    "package_name": "catalina",
    "package_version": "1.0.1",
    "size": 657,
    "properties": [
        {
            "key": "build.name",
            "values": [
                "Catalina-Build"
            ]
        },
        {
            "key": "build.number",
            "values": [
                "1.0.1"
            ]
        },
        {
            "key": "build.timestamp",
            "values": [
                "1726579000304"
            ]
        },
        {
            "key": "sha256",
            "values": [
                "fee54f469a2a999a89cf8659ae0eb33450d675f11109093382a7142152cfe4ff"
            ]
        }
    ]
},
{
    "path": "commons/1.0.1/manifest.json",
    "checksum": "09a6aa2c159946d264854baea15ebf0378a432157f2ffbd8737aff541cb9ed00",
    "source_repository_key": "commons-dev-docker-local",
    "package_type": "docker",
    "package_name": "commons",
    "package_version": "1.0.1",
    "size": 523,
    "properties": [
        {
            "key": "artifactory.content-type",
            "values": [
                "application/vnd.docker.distribution.manifest.v2+json"
            ]
        },
        {
            "key": "build.name",
            "values": [
                "Commons-Build"
            ]
        }
    ]
}
```

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```
        ]
    },
{
    "key": "build.number",
    "values": [
        "1.0.1"
    ]
},
{
    "key": "build.timestamp",
    "values": [
        "1726579003176"
    ]
},
{
    "key": "docker.manifest",
    "values": [
        "1.0.1"
    ]
},
{
    "key": "docker.manifest.digest",
    "values": [
        "sha256:09a6aa2c159946d264854baea15ebf0378a432157f2ffbd8737aff541cb9ed00"
    ]
},
{
    "key": "docker.manifest.type",
    "values": [
        "application/vnd.docker.distribution.manifest.v2+json"
    ]
},
{
    "key": "docker.repoName",
    "values": [
        "commons"
    ]
},
{
    "key": "oci.artifact.type",
    "values": [
        "application/vnd.docker.container.image.v1+json"
    ]
},
{
    "key": "sha256",
    "values": [
        "09a6aa2c159946d264854baea15ebf0378a432157f2ffbd8737aff541cb9ed00"
    ]
}
]
}
]
```

The response includes the following information:

Property	Description
service_id	The unique identifier of the Artifactory instance where the Release Bundle version was created.
created_by	The name of the user who created the Release Bundle version.

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Property	Description
	<b>Note</b>
	Names longer than 64 characters will appear truncated.
created	The timestamp when the Release Bundle version was created (ISO 8601 standard).
created_millis	The timestamp when the Release Bundle version was created (in milliseconds).
total_artifacts_count	The total number of artifacts included in the Release Bundle version.
artifacts	The properties of the artifact, as described below.
artifacts.path	The path of a Release Bundle item relative to its contents directory.
artifacts.checksum	The SHA-256 checksum of the source artifact.
artifacts.source_repository_key	The source repository of the artifact.
artifacts.package_type	The package type of the source repository associated with the artifact.
artifacts.package_name	The name of the package associated with the artifact.
artifacts.package_version	The version of the package associated with the artifact.
artifacts.size	The size of the artifact (in bytes).
artifacts.properties	The source artifact properties that were present when the Release Bundle version was created (each property includes a key and values).

### Status Codes:

Code	Description
200	Fetched
401	Bad Credentials
403	Permission Denied

Code	Description
404	Not Found (Release Bundle/version)

#### 2.4.1.6 | Get Release Bundle v2 Versions with a Specific Artifact

**Description:** Returns a list of Release Bundle v2 versions that contain the specified artifact.

**Since:** 7.107.1

**Security:** Requires Read permissions to Release Bundle paths. Forbidden Release Bundles are excluded from the results.

**Usage:** GET /lifecycle/api/v2/release\_bundle/search-by-artifact?{artifact\_path}&{sha256}

**Query Parameters (optional):**

Field	Type	Description
artifact_path	string	<p>The complete path of the artifact to search for.</p> <p><b>Important</b></p> <p>The request must contain either the artifact_path, the sha256, or both.</p>
sha256	string	<p>The SHA-256 checksum of the artifact.</p> <p><b>Important</b></p> <p>The request must contain either the artifact_path, the sha256, or both.</p>
project	string	[optional] Defines the project associated with the Release Bundles. If this parameter is not specified, the default global project is assumed.
origin	string	<p>Defines where to search for the artifact:</p> <ul style="list-style-type: none"> <li>source: Searches the Release Bundle versions that have been created on this device.</li> <li>target: Searches the Release Bundle versions that have been received by this device when acting as a destination target. For example, this option enables you to search for Release Bundle versions received by an Edge node.</li> </ul> <p>If this parameter is not specified, both source and target Release Bundle versions are searched.</p>
order_by	string	<p>[optional] Defines the criterion by which to order the returned records: release_bundle_name, release_bundle_version</p> <p>The default is release_bundle_name.</p>

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Field	Type	Description
order_asc {true false}	boolean	[optional] Defines whether to list the Release Bundle versions in ascending (true) or descending (false) order.  The default value is true.

### Sample Request (sha256 defined):

```
curl http://localhost:8082/lifecycle/api/v2/release_bundle/search-by-artifact?  
sha256=ddf2f7b01600275ab94084db143d4f14b9d73f224b0f35a8f93d378138c60ff6&origin=target --header 'Authorization: Bearer  
*****'
```

### Sample Request (artifact\_path defined):

```
curl --location 'http://{artifactory_url}/lifecycle/api/v2/release_bundle/search-by-artifact?artifact_path=commons-1.0.0.txt'  
\  
--header 'Authorization: Bearer *****'
```

### Sample Response:

```
{
  "release_bundles": [
    {
      "repository_key": "release-bundles-v2",
      "release_bundle_name": "rb1",
      "release_bundle_version": "1.0.0",
      "origin": "source"
      "project_key": "default"
    },
    {
      "repository_key": "release-bundles-v2",
      "release_bundle_name": "rb2",
      "release_bundle_version": "1.0.2",
      "origin": "source"
      "project_key": "default"
    },
    {
      "repository_key": "release-bundles-v2",
      "release_bundle_name": "rb3",
      "release_bundle_version": "1.0.1",
      "origin": "target"
      "source_project_key": "default"
    }
  ]
}
```

The response includes the following information:

Property	Description
release_bundle_name	The Release Bundle name.
release_bundle_version	The Release Bundle version.
origin	The origin of the Release Bundle version:

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Property	Description
project_key	
source_project_key	The project associated with the Release Bundle. When the origin is target, the API returns the project key associated with the Release Bundle version at its source.

### Note

The response is limited to a maximum of 1000 records.

### Status Codes:

Code	Description
200	Fetched
400	Bad Request (no criteria specified)
403	Permission Denied

### Note

This API returns 200 with an empty body, if:

- The artifact isn't a part of any Release Bundle v2 version.
- The user does not have permission to see the relevant Release Bundle v2 version.

```
{  
  "release_bundles": []  
}
```

### 2.4.1.7 | Get Release Bundle v2 Versions in a Specific Environment

**Description:** Returns a list of all versions of every Release Bundle v2 located in a specified environment.

**Since:** 7.107.1

**Security:** Requires Read permissions to the target Release Bundle path.

**Usage:** GET /lifecycle/api/v2/promotion/release-bundles-by-environment/{{environment}}

**Path Parameter (mandatory):**

Parameter	Type	Description
environment	string	The name of the environment.

**Query Parameters (optional):**

Parameter	Type	Description
offset	integer	Sets the number of records to skip before returning the query response. Used for pagination purposes.
limit	integer	Sets the maximum number of versions to return at one time. Used for pagination purposes.
order_by	string	Defines the criterion by which to order the list of Release Bundle versions: created, created_by, release_bundle_name, release_bundle_version, environment
order_asc	boolean	Defines whether to list the promotions in ascending (true) or descending (false) order. The default value is false.

**Note**

See [Common Optional Query Parameters](#) for additional query parameters that are available for all Release Lifecycle Management APIs.

**Sample Request:**

```
curl --location --request GET 'http://localhost:8082/lifecycle/api/v2/promotion/release-bundles-by-environment/DEV?limit=10&offset=0&order_by=release_bundle_name' \
--header 'Content-Type: application/json' \
--header 'Authorization: Basic YWRtaW46cGFzc3dvcmQ=' \
```

**Sample Response:**

```
{
  "promotions": [
    {
      "repository_key": "release-bundles-v2",
      "release_bundle_name": "RC-bundle",
      "release_bundle_version": "1.0.0",
      "environment": "QA",
      "created": "2025-01-23T11:39:04.815Z",
      "created_millis": 1737632344815,
      "created_by": "admin",
      "project_key": "default"
    },
    {
      "repository_key": "release-bundles-v2",
      "release_bundle_name": "Commons-Bundle",
      "release_bundle_version": "1.0.7",
      "environment": "QA",
      "created": "2025-01-23T11:38:54.499Z",
      "created_millis": 1737632334499,
      "created_by": "admin",
      "project_key": "default"
    },
    {
      "repository_key": "release-bundles-v2",
```

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```
"release_bundle_name": "Commons-Bundle",
"release_bundle_version": "1.0.8",
"environment": "QA",
"created": "2025-01-23T11:38:51.276Z",
"created_millis": 1737632331276,
"created_by": "admin",
"project_key": "default"
}
],
"offset": 3
}
```

The response includes the following information:

Property	Description
repository_key	The repository that contains the Release Bundle version. The default value is release-bundles-v2. If a project was specified, the name of the project is appended to the beginning of the repository name.
release_bundle_name	The Release Bundle name.
release_bundle_version	The Release Bundle version.
environment	The target environment to which the Release Bundle version was promoted.
created	The timestamp of the promotion (ISO 8601 standard).
created_millis	The timestamp of the promotion in milliseconds.
created_by	The name of the user who initiated the promotion operation. <b>Note</b> Names longer than 64 characters will appear truncated.
project_key	The project associated with the Release Bundle version.

### Status Codes:

Code	Description
200	Submitted (asynchronous)
401	Bad Credentials

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Code	Description
403	Permission Denied
404	Not Found (repository/build)

### 2.4.1.8 | Get Release Bundle v2 Version Signature

**Description:** Returns the DSSE attestation contents of the specified Release Bundle v2 version.

**Since:** 7.63.2

**Security:** Requires Read permissions to the target Release Bundle path.

**Usage:** GET /lifecycle/api/v2/release\_bundle/signatures/{name}/{version}

**Query Parameters (optional):**

**Note**

See [Common Optional Query Parameters](#) for the query parameters that are available for all Release Lifecycle Management APIs.

**Sample Response:**

```
{  
    "payload": "eyJzY2hlbW....W119fQ==",  
    "payloadType": "application/vnd.in-toto+json",  
    "signatures": [  
        {  
            "keyid": "Primary",  
            "sig":  
                "LS0tLS1CRUdJTiBQR1AgU01HTkFUVVJFLS0tLS0KVmVyc21vbjogQkNQRyB2MS420AoKaVFHY0JBQUJDQUFHQ1FKa2pIcnRBQW9KRU56WDAzMHJVZzFrejB3TC9B  
eHZ4QUZPSjlsV3BWYVJaUko4Z216aQo0QkZIWx5VDhzNGtXek1Bdf11b1h1L2twNzBIanRIUK15UhtZCt6UlpuWh1kejh1NGR1VWxpQjJFNkk0UTJMCKrOcGNNb  
0N1TE1HY3gxm03WmpqZ2R1MWRoSvU5WXYxN0FFd3BQMGJiNHo4MUJXdDFXUjUrWDXuYk16bHN5MzIKR01VV1E0aGpTTDRWTzFDanNoOEYzYV1POW9Tb243SHR6Vm  
5hakFLMS81c0F4SF13cHg3N2JxbWYzeWh0U2kvKwowR1lpQnU2RnJkRUXCV25td3NSbkzNj1jc1EveThPwV13TkFPS0F1RGJI20o0b1dCWHk5Nju4cGXUEE5THN  
mCkprOU1HTmpXZ0dGeWc2MVI4QnJZQ5mQzIzRDZ4TjNaQml0UnzzFY5Nkh0NFJDSj1PwNBQTOIZSwVMcUdUQmwKUmRoS0ZnWFA0Y2Rqb3B4ZVJQmpIeFZacnBa  
LzhWNEV0NU51YVpEWjVMY2g4L3BHeS90WTI1RjEwR3VTM2Ni0QpjcnNrRXU2enRwaWo0dHhVRWRyQtGUws2MDBLWnhPNHFSbWZCdzIvV3hjaVRGZndClWVFjamZIS  
XXFQjdJdm9pC1ZEb0hpZjh1RkN0UzJwcFhEOW1W1ppY1F5dUdPdE5UVkFiSDRDTnN1UT09Cj1nWC9wCi0tLS0tRU5EIFBHUCBTSUdOQVRVUkUtLS0tLQo="  
    }  
]  
}
```

**Status Codes:**

Code	Description
200	Fetched
401	Bad Credentials
403	Permission Denied
404	Not Found (Release Bundle/version)

#### 2.4.1.9 | Get Release Bundle v2 Version Status

**Description:** Returns the current status of the selected Release Bundle v2 version, including any messages connected to the version.

**Since:** 7.63.2

**Security:** Requires Read permissions to the target Release Bundle path.

**Usage:** GET /lifecycle/api/v2/release\_bundle/statuses/{name}/{version}

**Query Parameters (optional):**

##### Note

See Common Optional Query Parameters for the query parameters that are available for all Release Lifecycle Management APIs.

**Sample Response (without errors):**

```
{  
    "status": "COMPLETED"  
}
```

**Sample Response (with errors, sample payload)**

```
{  
    "status": "FAILED",  
    "messages": [  
        {  
            "text": "Invalid AQL query for Release Bundle creation"  
        }  
    ]  
}
```

The response includes the following information:

Property	Description
status	Status of the creation: STARTED, FAILED, COMPLETED, DELETING
messages	Error messages generated when attempting to create a release bundle.

##### Status Codes:

Code	Description
200	Fetched
401	Bad Credentials
403	Permission Denied
404	Not Found (Release Bundle/version)

#### 2.4.1.10 | Delete Release Bundle v2 Version

**Description:** Deletes the selected Release Bundle v2 version with all its promotions. Both the Release Bundle attestation and all artifacts are removed.

##### Note

To delete a Release Bundle **v1** version, see Delete Release Bundle v1 Version. For information about the difference between v1 and v2 Release Bundles, see Types of Release Bundles.

##### Warning

Deleted Release Bundle v2 versions are **not** sent to the trash can even when the trash can is enabled. This means that once deleted, the version cannot be recovered.

**Since:** 7.63.2

**Security:** Requires Read and Delete permissions to the target Release Bundle path.

**Usage:** DELETE /lifecycle/api/v2/release\_bundle/records/{rb-name}/{rb-version}

**Query Parameters (optional):**

Field	Type	Description
async	boolean	Determines whether the operation should be asynchronous (true) or synchronous (false). The default value is “true”.

##### Note

See Common Optional Query Parameters for additional query parameters that are available for all Release Lifecycle Management APIs.

**Response body:** {empty}

**Status Codes:**

Code	Description
200	Submitted (Async)
204	Deleted (Sync)
401	Bad Credentials
403	Permission Denied
404	Not Found

Tip

In addition to deleting Release Bundle v2 versions manually as described above, administrators can define a Cleanup policy that removes Release Bundle versions automatically according to defined criteria. For more information, see [CLEANUP POLICIES - RELEASE BUNDLES V2 APIs](#).

#### 2.4.1.11 | Release Bundle Manifest for Builds

Release Bundle v2 manifests are an optional feature that enable you to limit a Release Bundle v2 to a subset of modules within a build. In addition to limiting the build contents to a specific module or package type, you can define include and exclude patterns to select specific artifacts and dependencies. Examples of manifests are described [below](#).

Note

To exclude selected artifacts in the build from the Release Bundle, see [Exclude Artifacts from a Release Bundle \(v2\)](#).

A manifest can have any filename and can be stored in any repository. Builds are connected to their manifests via the build property `buildInfo.env.RBV2_MANIFEST`.

**Manifest Template**

```
{
  "modules": [
    {
      "id": "{module-id}",
      "type": "{module-type}",      //optional
      "artifacts": {                //optional
        "include": [
          "{ant-path-matcher}"
        ],
        "exclude": [
          "{ant-path-matcher}"
        ]
      },
      "dependencies": {
        "include": [
          "{ant-path-matcher}"
        ],
        "exclude": [
          "{ant-path-matcher}"
        ]
      }
    }
  ]
}
```

**Release Bundle Manifest Examples**

**Example 1:** Select all contents of the module with the ID "module-001"

```
{
  "modules": [
    {
      "id": "module-001"
    }
  ]
}
```

**Example 2:** Select all contents of the module with the ID "module-002" that are of the type "maven"

```
{
  "modules": [
    {
      "id": "module-002",
      "type": "maven"
    }
  ]
}
```

```
    ]  
}
```

**Example 3:** Select all contents of the module with the ID "module-003" that are of the type "maven", and the contents of "module-004", regardless of type. From "module-004" *include* those artifacts that end with the extension "\*bin", and *exclude* all dependencies that start with "README".

```
{  
  "modules": [  
    {  
      "id": "module-003",  
      "type": "maven"  
    },  
    {  
      "id": "module-004",  
      "artifacts": {  
        "include": [  
          "**.bin"  
        ]  
      },  
      "dependencies": {  
        "exclude": [  
          "README**"  
        ]  
      }  
    }  
  ]  
}
```

## 2.4.2 | Release Bundle V2 Promotion APIs

This section includes the following APIs:

- Promote Release Bundle v2 Version
- Get Release Bundle v2 Promotions
- Get Release Bundle v2 Version Promotions
- Get Release Bundle v2 Version Promotion Details
- Get Release Bundle v2 Version Promotion Status
- Get Release Bundle v2 Version Promotions with a Specific Artifact
- Delete Release Bundle v2 Version Promotion

### 2.4.2.1 | Promote Release Bundle v2 Version

**Description:** Promotes the selected Release Bundle v2 version.

**Since:** 7.63.2

**Security:** Requires Read and Promote permissions for the Release Bundles; requires Deploy/Cache permissions to target artifact repository paths.

**Usage:** POST /lifecycle/api/v2/promotion/records/{name}/{version}

**Query Parameters (optional):**

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Field	Type	Description
async	boolean	<p>Determines whether the operation should be asynchronous (true) or synchronous (false): The default value is true.</p> <p>When running in asynchronous mode, the timeline shows the promotion as being "in progress" until the operation completes successfully, fails, or times out. In the meantime, you are free to continue working in Artifactory.</p> <p>When running in synchronous mode, you must wait until the promotion operation completes successfully, fails, or times out.</p> <p><b>Note</b></p> <p>When using Xray to scan Release Bundles before they are promoted, it may take several minutes for Xray to complete the scan and determine whether to block the promotion or allow it to proceed. This can cause a significant delay when promoting in synchronous mode, as you cannot perform other operations in Artifactory until the promotion (including the scan) is done.</p> <p>For more information about scanning promotions, see Scan Release Bundles (v2) with Xray.</p>
operation	string	<p>Determines how to perform the promotion:</p> <ul style="list-style-type: none"><li>copy: Copies of the contents of the Release Bundle version to the target repository. The contents remain in the source repository. This is the default.</li><li>move: Moves the contents of the Release Bundle version to the target repository. The contents are removed from the source repository.</li></ul>

### Note

See [Common Optional Query Parameters](#) for additional query parameters that are available for all Release Lifecycle Management APIs.

### Note

If any artifact in the promotion has a different checksum than the same artifact in the target environment, the promotion stops, and an error message is displayed.

### Important

If the Release Bundle v2 version belongs to a specific project, you must specify either the `repository_key` or the `project`. The `repository_key` refers to the system repository that contains the Release Bundles related to the project (`<project_key>-release_bundles-v2`).

**Request Header:** `X-JFrog-Signing-Key-Name` (key-pair name to use for signature creation)

### Important

If you do not specify a key, Artifactory will use the same key that was used when creating this Release Bundle version.

**Consumes:** application/json

### Sample Request:

```
{  
  "environment": "QA",  
  "included_repository_keys": [],  
  "excluded_repository_keys": []  
}
```

The request includes the following information:

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Property	Description
environment	Name of the target environment for the promotion.
included_repository_keys	<p>Defines specific repositories to include in the promotion.</p> <p>If this property is left undefined, <i>all</i> repositories (except those specifically excluded) are included in the promotion.</p> <p>Important: If one or more repositories are specifically <i>included</i>, all other repositories are excluded (regardless of what is defined in excluded_repository_keys).</p>
excluded_repository_keys	Defines specific repositories to exclude from the promotion.

## Sample Response:

```
{  
    "repository_key": "release-bundles-v2",  
    "release_bundle_name": "Commons-Bundle",  
    "release_bundle_version": "1.0.0",  
    "environment": "QA",  
    "included_repository_keys": [  
        "commons-qa-generic-local",  
        "commons-qa-docker-local",  
        "commons-qa-maven-local"  
    ],  
    "excluded_repository_keys": [],  
    "created": "2023-05-19T06:21:44.916Z",  
    "created_millis": 1684477304916  
}
```

Additional information included in the response:

Property	Description
created	Timestamp when the new version was created (ISO 8601 standard).
created_millis	Timestamp when the new version was created (in milliseconds).

## Status Codes:

Code	Description
200	Submitted (asynchronous)
201	Promoted (synchronous)
400	Bad Request

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Code	Description
404	Not Found

### 2.4.2.2 | Get Release Bundle v2 Promotions

**Description:** Returns the records of all promotions for the specified Release Bundle v2 (regardless of version). All promotion records are provided regardless of status, including failed attempts.

**Since:** 7.63.2

**Security:** Requires Read permissions to the target Release Bundle path.

**Usage:** GET /lifecycle/api/v2/promotion/records/{name}

**Query Parameters (optional):**

Field	Type	Description
include {messages}	string	Returns any error messages generated when creating the promotion.
offset	integer	Sets the number of records to skip before returning the query response. Used for pagination purposes.
limit	integer	Sets the maximum number of versions to return at one time. Used for pagination purposes.
filter_by	string	<p>Defines a filter for the list of promotions.</p> <p>You can filter according to:</p> <ul style="list-style-type: none"> <li>• bundle_version (for example, filter_by=1.0.0)</li> <li>• promotion_environment (for example, filter_by=QA)</li> <li>• promotion_created_by (for example, filter_by=user1)</li> </ul>
order_by {created created_millis created_by release_bundle_version environment}	string	Defines the criterion by which to order the list of promotions: created (standard timestamp or

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Field	Type	Description
order_asc {true false}	boolean	<p>milliseconds), created_by, release_bundle_version, environment</p> <p>Defines whether to list the promotions in ascending (true) or descending (false) order.</p> <p>The default value is false.</p>

### Note

See [Common Optional Query Parameters](#) for additional query parameters that are available for all Release Lifecycle Management APIs.

### Sample Response:

```
{
  "promotions": [
    {
      "status": "FAILED",
      "repository_key": "release-bundles-v2",
      "release_bundle_name": "Commons-Bundle",
      "release_bundle_version": "1.0.0",
      "environment": "QA",
      "service_id": "jfrt@01h0nvs1pwjtzs15x7kbtv1sve",
      "created_by": "admin",
      "created": "2023-05-19T06:47:56.518Z",
      "created_millis": 1684478876518,
      "xray_retrieval_status": "NOT_APPLICABLE",
      "messages": [
        {
          "text": "Target artifact already exists: commons-qa-generic-local/commons/release-notes-1.0.0.txt"
        }
      ]
    },
    {
      "status": "COMPLETED",
      "repository_key": "release-bundles-v2",
      "release_bundle_name": "Commons-Bundle",
      "release_bundle_version": "1.0.0",
      "environment": "QA",
      "service_id": "jfrt@01h0nvs1pwjtzs15x7kbtv1sve",
      "created_by": "admin",
      "created": "2023-05-19T06:21:44.916Z",
      "created_millis": 1684477304916,
      "xray_retrieval_status": "NOT_APPLICABLE"
    }
  ],
  "total": 2,
  "limit": 1000,
  "offset": 0
}
```

The response includes the following information:

Property	Description
status	Status of the promotion: STARTED, FAILED, COMPLETED, DELETING

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Property	Description
repository_key	Unique identifier for the Release Bundles repository.
release_bundle_name	Name of the Release Bundle.
release_bundle_version	Release Bundle version.
environment	Name of the target environment for the promotion.
service_id	The unique identifier of the Artifactory instance where the Release Bundle was promoted.
created_by	Name of the user who initiated the promotion.
created	Timestamp when the promotion was created (ISO 8601 standard).
created_millis	Timestamp when the promotion was created in milliseconds.
xray_retrieval_status	The current status of the processing of this promotion by Xray.
messages	Error messages related to the processing of the operation (if any).

## Status Codes:

Code	Description
200	Fetched
401	Bad Credentials
403	Permission Denied

### 2.4.2.3 | Get Release Bundle v2 Version Promotions

**Description:** Returns the details of all promotions for the specified Release Bundle v2 version. All promotion records are provided regardless of status, including failed attempts.

**Since:** 7.63.2

**Security:** Requires Read permissions to the target Release Bundle path.

**Usage:** GET /lifecycle/api/v2/promotion/records/{name}/{version}

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### Query Parameters (optional):

Field	Type	Description
include {messages}	string	Returns any error messages generated when creating the promotion.
offset	integer	Sets the number of records to skip before returning the query response. Used for pagination purposes.
limit	integer	Sets the maximum number of versions to return at one time. Used for pagination purposes.
filter_by	string	<p>Defines a filter for the list of promotions.</p> <p>You can filter according to:</p> <ul style="list-style-type: none"> <li>• bundle_version (for example, filter_by=1.0.0)</li> <li>• promotion_environment (for example, filter_by=QA)</li> <li>• promotion_created_by (for example, filter_by=user1)</li> </ul>
order_by {created created_millis created_by environment}	string	Defines the criterion by which to order the list of promotions: created (standard timestamp or milliseconds), created_by, environment
order_asc {true false}	boolean	<p>Defines whether to list the promotions in ascending (true) or descending (false) order.</p> <p>The default value is false.</p>

### Note

See [Common Optional Query Parameters](#) for additional query parameters that are available for all Release Lifecycle Management APIs.

**Request Body:** {none}

**Sample Response:**

```
{
  "promotions": [
    {
      "status": "FAILED",
      "repository_key": "release-bundles-v2",
      "release_bundle_name": "Commons-Bundle",
      "release_bundle_version": "1.0.0",
      "environment": "QA",
      "service_id": "jfrrt@01h0nvs1pwjtzs15x7kbtv1sve",
      "created_by": "admin",
      "created": "2023-05-19T06:47:56.518Z",
      "created_millis": 1684478876518,
      "xray_retrieval_status": "NOT_APPLICABLE",
      "messages": [
        {
          "message": "The promotion failed due to an internal server error."}
      ]
    }
  ]
}
```

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```
{  
    "text": "Target artifact already exists: commons-qa-generic-local/commons/release-notes-1.0.0.txt"  
}  
]  
,  
{  
    "status": "COMPLETED",  
    "repository_key": "release-bundles-v2",  
    "release_bundle_name": "Commons-Bundle",  
    "release_bundle_version": "1.0.0",  
    "environment": "QA",  
    "service_id": "jfrt@01h0nvs1pwjtzs15x7kbv1sve",  
    "created_by": "admin",  
    "created": "2023-05-19T06:21:44.916Z",  
    "created_millis": 1684477304916,  
    "xray_retrieval_status": "NOT_APPLICABLE"  
}  
],  
"total": 2,  
"limit": 1000,  
"offset": 0  
}
```

The response includes the following information:

Property	Description
status	Status of the promotion: SUBMITTED, STARTED, PENDING, FAILED, REJECTED
repository_key	Unique identifier for the Release Bundles repository.
release_bundle_name	Name of the Release Bundle.
release_bundle_version	Release Bundle version.
environment	Name of the target environment for the promotion.
service_id	The unique identifier of the Artifactory instance where the Release Bundle was promoted.
created_by	Name of the user who initiated the promotion.
created	Timestamp when the promotion was created (ISO 8601 standard).
created_millis	Timestamp when the promotion was created in milliseconds.
xray_retrieval_status	The current status of the processing of this promotion by Xray.
messages	(Optional) Error messages related to the processing of the operation.

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Property	Description
total	The total number of promotions for the specified Release Bundle version.
limit	Defines the maximum number of versions returned at one time. Used for pagination purposes.
offset	Sets the number of records that are skipped before returning the query response. Used for pagination purposes.

#### Status Codes:

Code	Description
200	Fetched
401	Bad Credentials
403	Permission Denied

#### 2.4.2.4 | Get Release Bundle v2 Version Promotion Details

**Description:** Returns the specification of the specified Release Bundle v2 version promotion. The specification file contains a snapshot of the items in the promotion.

Since: 7.63.2

**Security:** Requires Read permissions to the target Release Bundle path.

**Usage:** GET /lifecycle/api/v2/promotion/records/{name}/{version}/{created\_millis}

#### Query Parameters (optional):

### Note

See [Common Optional Query Parameters](#) for the query parameters that are available for all Release Lifecycle Management APIs.

### **Sample Response:**

```
{  
  "environment": "QA",  
  "created_by": "admin",  
  "created": "2023-05-19T06:21:44.916Z",  
  "created_millis": 1684477304916,  
  "artifacts": [  
    {  
      "path": "commons-qa-maven-local/org/apache/tomcat/commons/1.0.0/commons-1.0.0.jar",  
      "checksum": "0d2053f76605e0734f5251a78c5dade5ee81b0f3730b3f603aedb90bc58033fb",  
      "package_type": "maven",  
      "package_name": "commons",  
      "package_version": "1.0.0"  
    },  
    {  
      "path": "commons-qa-maven-local/commons/commons-net-1.0.0-test"  
    }  
  ]  
}
```

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```
        "checksum": "f87e4c72e60300b451739d545afc0251a6e2f4bd1beaa1902ba739455897ecb8",  
        "package_type": "generic"  
    }  
]  
}
```

The response includes the following information:

Property	Description
environment	Name of the target environment for the promotion.
created_by	The user who created the Release Bundle.
created	The timestamp when the Release Bundle was created (ISO 8601 standard).
created_millis	The timestamp when the Release Bundle was created (in milliseconds).
path	The path of a Release Bundle item relative to its contents directory.
checksum	The SHA-256 checksum of the source artifact.
package_type	The package type of the source repository associated with the artifact.
package_name	The name of the package associated with the artifact.
package_version	The version of the package associated with the artifact.

### Status Codes:

Code	Description
200	Fetched
401	Bad Credentials
403	Permission Denied
404	Not Found (Release Bundle version/promotion)

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### 2.4.2.5 | Get Release Bundle v2 Version Promotion Status

**Description:** Returns the current status of the specified Release Bundle v2 version promotion.

**Since:** 7.63.2

**Security:** Requires Read permissions to the target Release Bundle path.

**Usage:** GET /lifecycle/api/v2/promotion/statuses/{name}/{version}/{created\_millis}

**Query Parameters (optional):**

**Note**

See [Common Optional Query Parameters](#) for the query parameters that are available for all Release Lifecycle Management APIs.

**Sample Response (without errors):**

```
{  
    "status": "COMPLETED"  
}
```

**Sample Response (with errors, sample payload):**

```
{  
    "status": "FAILED",  
    "messages": [  
        {  
            "text": "Target artifact already exists: commons-qa-generic-local/commons/release-notes-1.0.0.txt"  
        }  
    ]  
}
```

The response includes the following information:

Property	Description
status	Status of the promotion: STARTED, FAILED, COMPLETED, DELETING
messages	Error messages generated by a failed promotion.

**Status Codes:**

Code	Description
200	Fetched
401	Bad Credentials
403	Permission Denied
404	Not Found (Release Bundle version/promotion)

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### 2.4.2.6 | Get Release Bundle v2 Version Promotions with a Specific Artifact

**Description:** Returns a list of promoted Release Bundle v2 versions that contain the specified artifact.

**Since:** 7.106.2

**Security:** Requires Read permissions to the target Release Bundle path.

**Usage:** GET /lifecycle/api/v2/promotion/{{repository\_path}}

**Path Parameters:**

Field	Type	Description
repository_path	string	The full path of the artifact to search for.

**Query Parameters (optional):**

Field	Type	Description
project	string	Defines the project associated with the Release Bundles. If this parameter is not specified, the default global project is assumed.
order_by	string	Defines the criterion by which to order the returned records: release_bundle_name, release_bundle_version, environment, created_by  The default is created_by.
order_asc {true false}	boolean	Defines whether to list the Release Bundle versions in ascending (true) or descending (false) order.  The default value is false.
offset	integer	Sets the number of records to skip before returning the query response. Used for pagination purposes. The default value is 0.
limit	integer	Sets the maximum number of records to return at one time. Used for pagination purposes. The default value is 100. The maximum valid value is 1000.

**Sample Request:**

```
curl --location 'http://localhost:8082/lifecycle/api/v2/promotion/commons-dev-generic-local/commons-1.0.0.txt?  
limit=3&offset=3' \  
--header 'Authorization: Bearer *****'
```

**Sample Response:**

```
"promotions": [  
    {  
        "repository_key": "release-bundles-v2",  
        "release_bundle_name": "ccc",  
        "release_bundle_version": "1.0.0",  
        "environment": "DEV",  
        "created": "2025-01-19T11:02:43.536Z",  
        "created_millis": 1737284563536,
```

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```
"created_by": "admin",
"project_key": "default"
},
{
"repository_key": "release-bundles-v2",
"release_bundle_name": "bbb",
"release_bundle_version": "1.0.2",
"environment": "DEV",
"created": "2025-01-19T10:52:30.901Z",
"created_millis": 1737283950901,
"created_by": "admin",
"project_key": "default"
},
{
"repository_key": "release-bundles-v2",
"release_bundle_name": "aaa",
"release_bundle_version": "1.0.3",
"environment": "DEV",
"created": "2025-01-19T10:51:53.394Z",
"created_millis": 1737283913394,
"created_by": "admin",
"project_key": "default"
}
],
"offset": 3
```

The response includes the following information:

Property	Description
repository_key	The repository that contains the Release Bundle version. The default value is release-bundles-v2. If a project was specified, the name of the project is appended to the beginning of the repository name.
release_bundle_name	The Release Bundle name.
release_bundle_version	The Release Bundle version.
environment	The target environment to which the Release Bundle version was promoted.
created	The timestamp of the promotion (ISO 8601 standard).
created_millis	The timestamp of the promotion in milliseconds.
created_by	The user who initiated the promotion operation.
project_key	The project associated with the Release Bundle version.

### Note

The response is limited to a maximum of 1000 records at a time.

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## Status Codes:

Code	Description
200	Fetched
400	Bad Request (no criteria specified)
403	Permission Denied

## Note

This API returns 200 with an empty body, if:

- The artifact isn't a part of any Release Bundle v2 version.
- The artifact is part of a Release Bundle v2 version that has not been promoted.
- The user does not have permission to see the relevant Release Bundle v2 version.

```
{  
  "promotions": [],  
  "offset": 0  
}
```

### 2.4.2.7 | Delete Release Bundle v2 Version Promotion

**Description:** Deletes the selected Release Bundle v2 version promotion with all its artifacts. Each promoted artifact may be deleted only if there is no other promotion that refers to it by the same repository path and binary checksum. Any evidence attached to the promotion is also deleted.

## Warning

Deleted Release Bundle v2 promotions are **not** sent to the trash can even when the trash can is enabled. This means that once deleted, the promotion cannot be recovered.

**Since:** 7.63.2

**Security:** Requires Read and Delete permissions to the target Release Bundle path; requires Delete permissions to the promoted repository paths.

**Usage:** DELETE /lifecycle/api/v2/promotion/records/{name}/{version}/{created\_mills}

## Query Parameters (optional):

Field	Type	Description
async	boolean	Determines whether the operation should be asynchronous (true) or synchronous (false). The default value is true.

## Note

See [Common Optional Query Parameters](#) for additional query parameters that are available for all Release Lifecycle Management APIs.

**Response body:** {empty}

**Status Codes:**

Code	Description
200	Submitted (Async)
204	Deleted (Sync)
401	Bad Credentials
403	Permission Denied

### Tip

In addition to deleting Release Bundle versions manually as described above, administrators can define a Cleanup policy that removes Release Bundle versions automatically according to defined criteria. For more information, see [Create Cleanup Policy - Release Bundle V2](#).

## 2.4.3 | Release Bundle V2 Distribution APIs

This section includes the following distribution APIs:

- Distribute Release Bundle Version v2
- Abort Release Bundle V2 Distribution
- Get Release Bundle V2 Distributions
- Remote Delete Release Bundle V2 Distribution
- Propagate Public Signing Key

In addition, this section contains the following APIs that are relevant for Air Gap environments:

- Export Release Bundle Version v2 Archived File
- Get Exported Release Bundle Version v2 Status
- Delete Exported Release Bundle v2 Archive File

### Note

Release Bundles v2 use the same import API as Release Bundles v1. For more information, see [Import Release Bundle Version](#).

### 2.4.3.1 | Distribute Release Bundle Version v2

**Description:** Distributes a Release Bundle v2 version.

**Since:** 7.63.2 (Artifactory), 2.19.1 (Distribution)

**Security:** Requires permissions to distribute Release Bundles; requires destination permissions to the target Release Bundle path.

**Usage:** POST /lifecycle/api/v2/distribution/distribute/{release\_bundle\_name}/{release\_bundle\_version}

**Query Parameters (optional):** repository\_key, project. See [Common Optional Query Parameters](#).

# JFrog REST APIs Displayed in the header

## Important

If the Release Bundle v2 version belongs to a specific project, you must specify either the repository\_key or the project. The repository\_key refers to the system repository that contains the Release Bundles related to the project (<project\_key>-release\_bundles-v2).

**Consumes:** application/json

### Sample Request:

```
http://localhost:8082/lifecycle/api/v2/distribution/distribute/bundleName/1.0.0?repository_key=release-bundles-v2
{
    "auto_create_missing_repositories": "false",
    "distribution_rules": [
        {
            "site_name": "*"
        }
    ],
    "modifications": {
        "default_path_mapping_by_last_promotion": false,
        "mappings": [
            {
                "input": "(.+)/(.+)",
                "output": "$1/mapping/$2"
            }
        ]
    }
}
```

The request includes the following information:

Property	Description
auto_create_missing_repositories	<p>Determines whether to create missing repositories automatically on the distribution targets. The default value is <code>false</code>, which means that if a missing repository is encountered in a particular target, the distribution to that target will fail.</p> <p><b>Note</b></p> <p>In Distribution versions prior to 2.19.0, the option to create missing repositories automatically could not work together with path mappings (defined under <code>modifications</code> as described below), unless a special configuration parameter (<code>distribute.auto-create-target-repo-advance</code>) was changed from its default setting to <code>true</code>.</p> <p>Starting with 2.19.0, the default setting of this parameter has changed to <code>true</code>, which removes this limitation.</p> <p>If you want to prevent missing repositories from being created automatically when path mappings are defined, change the setting of <code>distribute.auto-create-target-repo-advance</code> back to <code>false</code>.</p>
distribution_rules	<p>Defines which distribution targets to include when distributing the Release Bundle.</p>
modifications	<p>(Optional) Specifies the path mapping for the artifacts on the distribution targets in the form of input and output regex mapping pairs. These mapping pairs define where the queried artifact is</p>

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Property	Description
modifications.default_path_mapping_by_last_promotion	<p>located and where it should be placed. Use this option if the path on the target is different than the source path.</p>
modifications.mappings	<p><b>Note</b></p> <p>Requires Distribution 2.26.1 or higher.</p> <p>When this property is <b>not</b> set, the default path mapping is determined by the <code>default-path-mapping-by-last-promotion</code> property in the Distribution Application Config YAML file. For more information, see <a href="#">Configure Path Mapping from the Last Promotion</a>.</p> <p>When this property <b>is</b> set, this setting <i>overrides</i> the configuration property in the Distribution Application Config YAML file:</p> <ul style="list-style-type: none"><li>• When set to <code>true</code>, the repositories used for the most recent promotion of the Release Bundle version are provided as the path mapping.</li><li>• When set to <code>false</code>, the default destination repositories will match those at the source.</li></ul> <p><b>Note</b></p> <p>Setting this property to <code>true</code> can be used, for example, to facilitate a gradual rollout of the feature (default path mapping by last promotion), by limiting its use to specific API requests.</p> <p>Defines the input and output regex mapping pairs.</p> <p><b>Warning</b></p> <p>Do not configure mappings when <code>default_path_mapping_by_last_promotion</code> is set to <code>true</code>.</p>

## Sample Response:

```
{  
  "id": 721286369066762240,  
  "sites": [  
    {  
      "name": "infra-dist-yevdoa-08244892-edge-2",  
      "service_id": "jfrt@01h2wh4psm4mhf04w2n00p0rp4",  
      "type": "artifactory"  
    },  
    {  
      "name": "HOME",  
      "service_id": "jfrt@01h2wgyv4wn0c40jbv881c0www",  
      "type": "artifactory"  
    },  
    {  
      "name": "infra-dist-yevdoa-08244892-edge-1",  
      "service_id": "jfrt@01h2wh54qwn5rk1wp2rfzh032n",  
      "type": "artifactory"  
    },  
    {  
      "name": "infra-dist-yevdoa-08244892-edge-0",  
      "service_id": "jfrt@01h2wh9ebwyw5v01nanend06zf",  
      "type": "artifactory"  
    }  
  ]  
}
```

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```
        }  
    ]  
}
```

The response includes the following information:

Property	Description
id	The ID number of the distribution operation.
sites	The name, service_id and type of each destination target.
name	The name of Edge node serving as the destination target for the distributed Release Bundle.
service_id	The unique identifier of the Artifactory instance where the Release Bundle was distributed.
type	The destination target device type (e.g. Artifactory).

### Status Codes:

Code	Description
200	Success
400	Bad Request
404	Not Found
409	Already Exists

### 2.4.3.2 | Abort Release Bundle V2 Distribution

**Description:** Aborts the distribution of a Release Bundle v2 version. The Abort operation affects only those targets that have not yet received the complete Release Bundle.

#### Note

If the auto\_create\_missing\_repositories option was set to true during distribution, any repositories created before the Abort operation was implemented are **not** removed.

**Since:** 7.63.2 (Artifactory), 2.19.1 (Distribution)

**Security:** Requires permissions to distribute Release Bundles

**Usage:**PUT /lifecycle/api/v2/distribution/abort/{release\_bundle\_name}/{release\_bundle\_version}

## JFrog REST APIs Displayed in the header

### Sample Response:

```
[  
  {  
    "name": "infra-dist-yevdoa-11144318-edge-0",  
    "service_id": "jfrt@01h2zddn8dkpqphce94pr0z02",  
    "type": "artifactory"  
  },  
  {  
    "name": "infra-dist-yevdoa-11144318-edge-1",  
    "service_id": "jfrt@01h2zdjvf5wpar14tr39za1k6f",  
    "type": "artifactory"  
  },  
  {  
    "name": "infra-dist-yevdoa-11144318-edge-2",  
    "service_id": "jfrt@01h2zdgc0cpe3f0dfhqyj90n55",  
    "type": "artifactory"  
  },  
  {  
    "name": "HOME",  
    "service_id": "jfrt@01h2zdbf9v2snv0tmbbbxt17c6",  
    "type": "artifactory"  
  }  
]
```

The response includes the following information:

Property	Description
name	The name of the distribution target.
serviceId	The serviceId of the distribution target.
type	The distribution target type (e.g. Artifactory, Edge).

### Status Codes:

Code	Description
202	Request accepted for processing
204	Nothing was aborted
403	Permission Denied

### 2.4.3.3 | Get Release Bundle V2 Distributions

**Description:** Returns a list of distributions for a specified Release Bundle v2 version.

**Since:** 7.63.2 (Artifactory), 2.19.1 (Distribution)

**Security:** Required Read permissions.

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**Usage:** GET /lifecycle/api/v2/distribution/trackers/{{release\_bundle\_name}}/{{release\_bundle\_version}}

**Query Parameters (optional):** repository\_key, project. See [Common Optional Query Parameters](#).

**Sample Response:**

```
[  
  {  
    "distribution_tracker_friendly_id": 1,  
    "type": "DISTRIBUTEEXPORT_RELEASE_BUNDLE",  
    "release_bundle_name": "CommonsRBv2-094351-Bundle088",  
    "release_bundle_version": "2.0.0v-094351-091",  
    "storing_repository": "release-bundles-v2",  
    "status": "IN_PROGRESSCOMPLETED",  
    "distributed_by": "admin",  
    "created": "20232024-0611-15T1217T11:0645:26.47129.142+00000200",  
    "start_timefinish_time": "20232024-0611-15T1217T11:0645:28.88130.020+00000200",  
    "targets": [  
      "HOME",  
      "infra-dist-yevdoa-11144318-edge-2",  
      "infra-dist-yevdoa-11144318-edge-0",  
      "infra-dist-yevdoa-11144318-edge-1"  
    ]  
  }  
]
```

The response includes the following information:

Property	Description
distribution_tracker_friendly_id	The sequential distribution number of this Release Bundle version.
type	Indicates whether this action was a distribution request or a remote delete request.
release_bundle_name	Name of the Release Bundle.
release_bundle_version	Release Bundle version.
storing_repository	Name of the source repository.
status	The current status of the Release Bundle: IN_PROGRESS, COMPLETED, CREATED, FAILED, ABORTED, PARTIALLY_ABORTED, ABORT_IN_PROGRESS
distributed_by	The user who initiated distribution.
created	Timestamp when the Release Bundle was created.
finish_time	Timestamp when distribution of the Release Bundle version finished.

# JFrog REST APIs Displayed in the header

Property	Description
targets	The list of distribution targets.

## Status Codes:

Code	Description
200	Fetched
403	Permission Denied
404	Not Found

### 2.4.3.4 | Get Release Bundle V2 Distribution Details

**Description:** Returns the details of a specific distribution of a Release Bundle v2 version.

**Since:** 7.63.2 (Artifactory), 2.20.1 (Distribution)

**Security:** Required Read permissions.

**Usage:** GET

/lifecycle/api/v2/distribution/trackers/{release\_bundle\_name}/{release\_bundle\_version}/{distribution\_id}

**Query Parameters (optional):** repository\_key, project. See [Common Optional Query Parameters](#).

**Sample Response:**

```
{  
    "distribution_id": 748118725179052032,  
    "distribution_friendly_id": 1,  
    "type": "distribute",  
    "release_bundle_name": "release-bundle",  
    "release_bundle_version": "1.0.0",  
    "status": "Completed",  
    "distributed_by": "admin",  
    "start_time": "2023-08-27T12:56:48.255+0300",  
    "finish_time": "2023-08-27T12:56:49.792+0300",  
    "duration": 1537,  
    "distribution_rules": [  
        {  
            "site_name": "*",  
            "city_name": "*",  
            "country_codes": [],  
            "groups": []  
        }  
    ],  
    "sites": [  
        {  
            "status": "Completed",  
            "target_artifactory": {  
                "name": "edge1",  
                "service_id": "jfrt@01h8v6akhjj66w1zbec3qy07wn",  
                "type": "artifactory"  
            },  
        },  
    ]  
}
```

## JFrog REST APIs Displayed in the header

```
"total_files": 4,  
"total_bytes": 1672201,  
"distributed_files": 4,  
"distributed_bytes": 1672201,  
"distributed_by": "admin",  
"start_time": "2023-08-27T12:56:43.473+0300",  
"finish_time": "2023-08-27T12:56:49.785+0300",  
"file_errors": [],  
"files_in_progress": []  
}  
]  
}
```

The response includes the following information:

Property	Description
distribution_friendly_id	The sequential distribution number of this Release Bundle version.
type	Indicates whether this action was a distribution request or a remote delete request.
release_bundle_name	Name of the Release Bundle.
release_bundle_version	Release Bundle version.
status	The current status of the Release Bundle: IN_PROGRESS, COMPLETED, CREATED, FAILED, ABORTED, PARTIALLY_ABORTED, ABORT_IN_PROGRESS
distributed_by	The user who initiated distribution.
start_time	Timestamp when distribution of the Release Bundle version started.
finish_time	Timestamp when distribution of the Release Bundle version finished.
duration	The duration of the distribution from start to finish (in ms).
distribution_rules	Defines which distribution targets were included in this distribution.
sites	Provides the details of the distribution operation to each designated target.

### Status Codes:

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200 - Success

## 2.4.3.5 | Remote Delete Release Bundle V2 Distribution

**Description:** Deletes the Release Bundle v2 version from the distribution targets. (The Release Bundle version is not deleted locally.)

**Since:** 7.63.2 (Artifactory), 2.19.1 (Distribution)

**Security:** Requires permissions to delete Release Bundles; requires destination permissions to the target Release Bundle path.

**Usage:** POST /lifecycle/api/v2/distribution/remote\_delete/{release\_bundle\_name}/{release\_bundle\_version}

### Sample Request:

```
{  
  "distribution_rules": [  
    {  
      "site_name": "*"  
    }  
  ]  
}
```

The request includes the following information:

Property	Description
distribution_rules	Defines which distribution targets (site_name) to include when performing remote delete.

### Sample Response:

```
{  
  "id": 721286933968207872,  
  "sites": [  
    {  
      "name": "infra-dist-yevdoa-08244892-edge-2",  
      "service_id": "jfrt@01h2wh4psm4mhf04w2n00p0rp4",  
      "type": "artifactory"  
    },  
    {  
      "name": "infra-dist-yevdoa-08244892-edge-1",  
      "service_id": "jfrt@01h2wh54qwn5rk1wp2rfzh032n",  
      "type": "artifactory"  
    },  
    {  
      "name": "infra-dist-yevdoa-08244892-edge-0",  
      "service_id": "jfrt@01h2wh9ebwyw5v01nanend06zf",  
      "type": "artifactory"  
    }  
  ]  
}
```

The response includes the following information:

Property	Description
id	The ID number of the distribution operation.

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Property	Description
sites	The name, service_id and type of each destination target.

### Status Codes:

Code	Description
202	Accepted for Deletion
403	Permission Denied

### 2.4.3.6 | Propagate Public Signing Key

**Description:** Propagates the public signing key created in Artifactory to Distribution Edge nodes. This enables Distribution to distribute a Release Bundle v2 using the same signing key used in Artifactory to create and promote the Release Bundle.

**Since:** 7.63.2 (Artifactory), 2.19.1 (Distribution)

**Security:** Requires Admin permissions.

**Usage:** POST /lifecycle/api/v2/distribution/key/propagate/{key\_name}

#### Sample Response:

```
{  
  "status": "SUCCESS",  
  "details": [  
    {  
      "jpd_id": "JPD-1",  
      "name": "HOME",  
      "key_alias": "rbv2key",  
      "status": "SUCCESS"  
    },  
    {  
      "jpd_id": "JPD-4",  
      "name": "infra-dist-yevdoa-08244892-edge-0",  
      "key_alias": "rbv2key",  
      "status": "SUCCESS"  
    },  
    {  
      "jpd_id": "JPD-2",  
      "name": "infra-dist-yevdoa-08244892-edge-2",  
      "key_alias": "rbv2key",  
      "status": "SUCCESS"  
    },  
    {  
      "jpd_id": "JPD-3",  
      "name": "infra-dist-yevdoa-08244892-edge-1",  
      "key_alias": "rbv2key",  
      "status": "SUCCESS"  
    }  
  ]  
}
```

The response includes the following information:

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Property	Description
status	The overall status of the propagation operation.
jpd_id	The ID of the Distribution Edge node.
name	The name of the Edge node.
key_alias	The unique key identifier for the public key.
status	The propagation status for the specified Distribution Edge node.

### 2.4.3.7 | Export Release Bundle Version v2 Archived File

**Description:** Triggers the Release Bundle v2 export process from JFrog Distribution. This is used when working in an Air Gap environment.

#### Note

To *import* a Release Bundle v2 version, use the same API that is used to import a Release Bundles v1 version. For details, see [Import Release Bundle Version](#).

**Since:** 7.63.2 (Artifactory), 2.19.1 (Distribution)

**Security:** Requires Release Bundle distribute permissions.

**Usage:** POST /lifecycle/api/v2/distribution/export/{release\_bundle\_name}/{release\_bundle\_version}

**Query Parameters (optional):** repository\_key, project. See [Common Optional Query Parameters](#).

**Consumes:** application/json

#### Sample Request:

```
{  
    "modifications": {  
        "mappings": [  
            {  
                "input": "(.+)/(.*)",  
                "output": "$1/mapping/$2"  
            }  
        ]  
    }  
}
```

The request includes the following information:

Property	Description
mappings	Specifies the path mapping for the artifacts in the form of input and output regular expressions. These expressions define where the artifacts are located and where they should be exported.

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Property	Description
input	The input regular expression that defines where the artifacts to export are located.
output	The output regular expression that defines the target artifact path with parameters from the input regex.

### Status Codes:

Code	Description
202	Accepted
400	Bad Request
404	Not Found
409	Already Exists

### 2.4.3.8 | Get Exported Release Bundle Version v2 Status

**Description:** Returns the status of an exported Release Bundle v2 operation.

**Since:** 7.63.2 (Artifactory), 2.19.1 (Distribution)

**Security:** Requires Release Bundle distribute permissions.

**Usage:** GET /lifecycle/api/v2/distribution/export/status/{release\_bundle\_name}/{release\_bundle\_version}

**Query Parameters (optional):** repository\_key, project. See [Common Optional Query Parameters](#).

**Sample Response:**

```
{  
  "status": "COMPLETED",  
  "exported_by": "admin",  
  "exported_at": 1731836729142,  
  "relative_download_url": "/release-bundles-v2/RBv2-094351-088/v-094351-091/RBv2-094351-088-v-094351-091.zip",  
  "download_url": "http://localhost:8046/artifactory/release-bundles-v2/RBv2-094351-088/v-094351-091/RBv2-094351-088-v-094351-091.zip"  
}
```

The response includes the following information:

Property	Description
status	The status of the export operation: IN PROGRESS, FAILED, NOT TRIGGERED, COMPLETED

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Property	Description
exported_by	The name of the user who created the export archive.
exported_at	The timestamp when the export operation was performed.
relative_download_url	The relative path to the Release Bundle v2 ZIP file, which includes only the repository and the path (no hostname).
download_url	The URL for downloading the exported Release Bundle v2 ZIP file. To ensure a proper link, make sure to configure a <a href="#">Base URL</a> in the JFrog platform UI.

### Status Codes:

Code	Description
200	Completed
400	Bad Request
404	Not Found

### 2.4.3.9 | Delete Exported Release Bundle v2 Archive File

**Description:** Deletes the exported Release Bundle v2 archive from Distribution.

**Since:** 7.63.2 (Artifactory), 2.19.1 (Distribution)

**Security:** Requires Admin permissions.

**Usage:** `DELETE /lifecycle/api/v2/distribution/export/delete/{release_bundle_name}/{release_bundle_version}`

**Response body:** {empty}

### Status Codes:

Code	Description
200	Submitted
401	Bad Credentials

Code	Description
403	Permission Denied

#### 2.4.4 | Lifecycle System YAML

The table below describes the parameters related to Release Lifecycle Management that can be configured in the Artifactory system YAML.

Parameter	Default	Description
lifecycle.enableUiHints	true	Enables/disables auxiliary features in the Release Lifecycle UI, for example, previously used signing key names and build-info hints, both related to Release Bundle v2 names.
lifecycle.cleanupCronSchedule	"0 0 0 ? * SUN" (at midnight every Sunday)	Defines the schedule (as Quartz cron expression) for cleaning up deprecated Release Bundle v2 creation and promotion records, as well as Release Bundle action messages.
lifecycle.cleanupAfterPeriodMin	2880 (2 days)	Defines the time period (in minutes) for determining when a deprecated record is a candidate for cleanup.
lifecycle.releaseBundlePreviewLimit	1000	Defines the number of Release Bundle v2 <i>names</i> to display on the Release Lifecycle dashboard.
lifecycle.releaseBundleDashboardLimit	200	Defines the number of Release Bundle v2 <i>versions</i> to display on the Release Lifecycle dashboard.
lifecycle.releaseBundleCreationTimeoutMin	360 (6 hours)	Defines the timeout value (in minutes) when <i>creating</i> a Release Bundle v2 (STARTED status).  If this threshold is exceeded, the status of the Release Bundle changes to FAILED.
lifecycle.promotionCreationTimeoutMin	360 (6 hours)	Defines the timeout value (in minutes) when <i>promoting</i> a Release Bundle v2 (PROCESSING status).  If this threshold is exceeded, the status of the Release Bundle changes to FAILED.
lifecycle.defaultSigningKeyName	[none]	Defines the name of the global default signing key to use when creating and promoting Release

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Parameter	Default	Description
lifecycle.defaultProjectSigningKeyNames	[none]	Bundles v2.  This key replaces the X-JFrog-Signing-Key-Name request header.
lifecycle.excludedPropertyKeys	[none]	Defines the default signing key name for each defined project.  These keys have a higher priority than the defaultSigningKeyName.
lifecycle.dbMetricsIntervalMillis	3600000 (1 hour)	A comma-separated list of property keys that must be excluded from being applied to artifacts upon Release Bundle v2 promotion.  By default, there are no excluded property keys.
lifecycle.xray.schedule.indexingCronExpression	"0 0 X/6 ? * * *" (where X is a random number)	Defines the internal for the collection of Release Bundle v2 statistics for OpenMetrics.
lifecycle.xray.schedule.indexingWindowMin	4320 (72 hours)	Defines the schedule (as Quartz cron expression) for retrying the delivery of Release Bundle v2 versions to Xray for indexing.
lifecycle.xray.schedule.promotionCronExpression	"0 X/30 * ? * * *" (where X is a random number)	Defines the retry period (in minutes) for Release Bundle v2 versions that were not delivered to Xray for indexing.
lifecycle.xray.schedule.promotionWindowMin	4320 (72 hours)	Defines the schedule (as Quartz cron expression) for retrying the delivery of Release Bundle v2 promotions to Xray for indexing.

## 2.4.5 | Common Optional Query Parameters

All APIs in this section include the following optional query parameters:

Field	Type	Description
repository_key	string	Optional Release Bundles repository identifier that identifies where a Release Bundle version resides. If this parameter and the project query parameter are not specified, the default value of release-

Field	Type	Description
project	string	bundles-v2 is assumed.  Optional project key used to determine the Release Bundles repository. By convention, each project may contain only one Release Bundles system repository with the name <project-key>-release-bundles-v2. This query parameter may be used instead of repository_key.

### Important

You must specify either the repository\_key or the project when performing an operation (for example, promotion or distribution) on a Release Bundle v2 that belongs to a specific project.

### Note

Additional query parameters are listed for each API where relevant.

## 2.5 | EVIDENCE

Evidence is managed using the following REST APIs:

- Deploy Evidence
- Delete Evidence

In addition, you can use GraphQL to perform the following operations:

- Search Evidence
- Get Evidence

### 2.5.1 | Deploy Evidence

#### Subscription Information

This feature is supported with the **Enterprise+** license.

**Description:** Deploys an evidence file for the designated subject that complies with the DSSE framework and the in-toto Attestation Framework. For details about the sequence of events during deployment, see Evidence Deployment Workflow.

### Important

This API endpoint deploys an external evidence file that was created elsewhere. An efficient method for attaching evidence to a subject, such as an artifact, is to use the Create Evidence CLI. Using the CLI ensures that the payload conforms to the in-toto framework and that the envelope conforms to the DSSE framework. The CLI invokes the Deploy Evidence API to upload the evidence to Artifactory.

**Since:** 7.104.2

**Security:** Requires a valid token; requires Read and Annotate permissions to the subject repository path

**Usage:** POST /evidence/api/v1/subject/{subject-repo-path}

**Content Type:** application/json

**Sample Request:**

```
curl -T evidence.json -X POST "{artifactory-host}/evidence/api/v1/subject/{subject-repository-path}
```

**Sample Response:**

```
{
  "repository": "commons-dev-generic-local",
  "path": "commons/1.0.0/file.txt",
```

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```
"name": "code-review-1717748704938.json",
"uri": "commons-dev-generic-
local/.evidence/6899195b7f70e1362509b729a278ee58311b366f38630281c70dfc2ebef20f4d/69d29925ba75eca8e67e0ad99d1132b47d599c206382
049bc230f2edd2d3af30/code-review-1717748704938.json",
"sha256": "cb3ba23a1da137668c03fd609b6fc4c1a35b6fd5cc98cce238465f8170a57a7a",
"predicate_category": "Quality",
"predicate_type": "https://jfrog.com/evidence/code-review/v0.1",
"predicate_slug": "code-review",
"created_at": "2025-01-01T00:00:00.000Z",
"created_by": "admin"
}
```

## Status Codes:

Code	Description
201	Created
401	Bad Credentials
403	Permission Denied
404	Not Found

## 2.5.2 | Search Evidence

**Description:** Returns the requested data about evidence files associated with the subject defined by the criteria in the GraphQL query. Use the query to define which subjects should return evidence and what evidence data is included about each one.

### Tip

Use the Get Evidence API to return the details of a specific evidence file returned by this API.

**Since:** 7.104.2

**Security:** Requires a valid token; requires Read permissions to the subject repository

**Usage:** POST /onemodel/api/v1/graphql

### Sample Usage:

```
curl --location -X POST -H "Content-Type: application/json" -H "Authorization: Bearer *****"
https://johnf.company.io/onemodel/api/v1/graphql -d '{"query": ""}'
```

### Sample query in GraphQL format (for readability):

```
{
  evidence {
    searchEvidence(
      where: { hasSubjectWith: { repositoryKey: "graph-repo" } }
    ) {
      totalCount
    }
    pageInfo {
      hasNextPage
      hasPreviousPage
      startCursor
      endCursor
    }
    edges {
```

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```
cursor
  node {
    name
    path
    repositoryKey
      downloadPath
    sha256
    predicateSlug
      path
      name
    subject {
      repositoryKey
      path
      name
    }
    predicateType
    predicate
  }
  createdAt
  createdBy
  verified
  signingKey {
  }
}
}
}
}
```

**Sample query after conversion to JSON (for purposes of execution):**

```
{
  "query": "{ evidence { searchEvidence( where: {hasSubjectWith: {repositoryKey: \"commons-dev-generic-local\", path: \"1/a\", name: \"file.txt\", sha256:\"69d29925ba75eca8e67e0ad99d1132b47d599c206382049bc230f2edd2d3af30\"}} ) { totalCount pageInfo { hasNextPage hasPreviousPage startCursor endCursor } edges { cursor node { name path repositoryKey downloadPath sha256 predicateSlug predicateCategory predicateType predicate createdAt createdBy verified publicKey { alias } } } } } }"
}

  "query": "{ evidence { searchEvidence( where: { hasSubjectWith: { repositoryKey: \"graph-repo\" } } ) { totalCount edges { node { downloadPath path name subject { repositoryKey path name } predicateType predicate createdBy } } } } }"
}
```

## Tip

Use a GraphQL to JSON body converter (available online) to create the proper payload for the REST API POST request. Alternatively, the GraphQL query can be used in tools such as GraphiQL.

The search query uses the following filter criteria to determine which evidence subjects are included in the response:

Property	Sub-property	Mandatory/Optional	Description
hasSubjectWith	repositoryKey	optional	<p>Defines the filter criteria related to the evidence subject.</p> <p>The repository key related to the evidence file.</p> <p><b>Note</b></p> <p>If the repositoryKey is not defined, the default <b>release-bundles-v2</b> repository is used.</p>

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Property	Sub-property	Mandatory/Optional	Description
	path	optional	The directory path.
	name	optional	The subject filename.
	sha256	optional	The checksum of the subject.

The search query can include one or more of the following properties, which determine the data field to return from each evidence file associated with the defined subject:

Property	Sub-property	Description
node		Defines which data to return from each evidence file associated with the defined subject.
	downloadPath	The full repository path of the evidence file, which can be used for downloading the file.
	subject	Details about the evidence subject: <ul style="list-style-type: none"> <li>• path: The directory path of the evidence subject + the filename of the subject.</li> <li>• name: The name of the evidence file.</li> <li>• repositoryKey: The name of the repository that contains the evidence file.</li> </ul>
	sha256	The checksum of the evidence file.
	predicateSlug	A simplified version of the predicateType (after removing the http:// or https:// schema, the query string, the trailing version, and the jfrog.com domain) provided for better readability.  For example, the predicateType <a href="https://jfrog.com/evidence/release-bundle/v1">https://jfrog.com/evidence/release-bundle/v1</a> is shortened to <b>release-bundle</b> .
	predicateCategory	The category in which the evidence file is classified. Categories include:

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Property	Sub-property	Description
		<ul style="list-style-type: none"> <li><b>Audit</b> (for example, approvals)</li> <li><b>Quality</b> (for example, test results)</li> <li><b>Security</b> (for example, evidence related to SAST and code scans)</li> <li><b>Workflow</b> (for example, internal evidence relating to the promotion and distribution of Release Bundles)</li> <li><b>Custom</b> (other types of external evidence attached by the user)</li> </ul>
	predicateType	The URL type associated with the predicate. For more information, see Evidence Payload.
	predicate	The contents of the claims made in the evidence file.
	createdAt	The timestamp of when the evidence file was created.
	createdBy	The user who created the evidence.
	verified	Whether the evidence has been verified on the server side in Artifactory using the public key.
	signingKey.alias	The name of the public key used to verify the evidence.

### Note

As a general rule, it is recommended to limit the response data to those properties that are actually of interest. It is also recommended to avoid including properties such as predicate, which are relatively data-heavy. After returning the list of evidence files associated with the subject, you can use the Get Evidence API to return the predicate (that is, the contents) of the specific evidence file you are interested in.

### Sample response:

```
{
  "data": {
    "evidence": {
      "searchEvidence": {
        "totalCount": 1,
        "pageInfo": {
          "hasNextPage": false,
          "hasPreviousPage": false,
          "startCursor": "ZXZpZGVuY2U6MQ==",
          "endCursor": "ZXZpZGVuY2U6OA=="
        },
        "edges": [

```

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```
{
  "cursor": "ZXZpZGVuY2U6MQ==",
  {
    "node": {
      "downloadPath": "graph-
repo/.evidence/8aba4330bb05cb8a8900f01118de6cdbc8be6f0b43021cd80245ed13bf71ad9/f87e4c72e60300b451739d545afc0251a6e2f4bd1beaa
1902ba739455897ecb8/code-review-1741006559813.json",
      "path": "commons-1.0.0.txt",
      "name": "code-review-1741006559813.json",
      "path": "1/a/file.txt",
      "repositoryKey": "commons-dev-generic-local",
      "downloadPath": "commons-dev-generic-
local/.evidence/f9f3100eea27f7884a9f3e6883d22191cc6cf4a5421f2617bcf6b42f9a2f7a1/69d29925ba75eca8e67e0ad99d1132b47d599c206382
049bc230f2edd2d3af30/code-review-1723466456662.json",
      "sha256": "8b252e932373e05f82e5e1771505cae1e485736c2a48530c0ddc9fb3ae0a7767",
      "predicateSlug": "code-review",
      "subject": {
        "repositoryKey": "graph-repo",
        "path": "commons-1.0.0.txt",
        "name": "code-review-1741006559813.json"
      },
      "predicateType": "https://jfrog.com/evidence/code-review/v0.1",
      "predicate": {
        "commiter": "Admin",
        "review-result": "PASSED",
        "reviewLink": "https://git.jfrog.com/commons/abc",
        "reviewer": "Superadmin",
        "timestamp": "2030-01-01T00:00:00.000Z"
      },
      "createdBy": "admin"
    }
  }
},
],
"createdAt": "2025-01-01T00:00:00.000Z",
"createdBy": "admin",
"verified": false
"publicKey": {
  "alias": "RSA-4096"
}
},
{
  "cursor": "ZXZpZGVuY2U6NQ==",
  "node": {
    "name": "code-review-1723477086000.json",
    "path": "1/a/file.txt",
    "repositoryKey": "commons-dev-generic-local",
    "downloadPath": "commons-dev-generic-
local/.evidence/f9f3100eea27f7884a9f3e6883d22191cc6cf4a5421f2617bcf6b42f9a2f7a1/69d29925ba75eca8e67e0ad99d1132b47d599c206382
049bc230f2edd2d3af30/code-review-1723477086000.json",
    "sha256": "e4dea090445947bf1b1657ad3f1e06948d5d9951d6ec22ded8efc056c26c4a21",
    "predicateSlug": "code-review",
    "predicateCategory": "Custom",
    "predicateType": "https://jfrog.com/evidence/code-review/v0.1",
    "predicate": {
      "commiter": "Dennis Sheridan",
      "review-result": "PASSED",
      "reviewLink": "https://git.jfrog.com/commons/abc",
      "reviewer": "Itay Keller",
      "timestamp": "2030-01-01T00:00:00.000Z"
    },
    "createdAt": "2025-01-01T00:00:00.000Z",
    "createdBy": "super-long-token-name-that-breaks-creating-and-promoting-rele...",,
    "verified": false
    "publicKey": {
      "alias": "RSA-4096"
    }
  }
},
{
}
```

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## Status Codes:

Code	Description
200	OK
401	Bad Credentials
403	Permission Denied

### 2.5.3 | Get Evidence

**Description:** Returns the requested data for the evidence file defined by the GraphQL query. Use the query to determine what data about the file is returned.

## Tip

Use the Search Evidence API to return data about all the evidence files associated with a particular subject.

**Since:** 7.104.2

**Security:** Requires a valid token; requires Read permissions to the subject repository

**Usage:** POST /onemode1/api/v1/graphql

#### **Sample Usage:**

## JFrog REST APIs Displayed in the header

```
curl --location -X POST -H "Content-Type: application/json" -H "Authorization: Bearer *****"  
https://johnf.company.io/onemodel/api/v1/graphql -d '{"query":""}'
```

### Sample query in GraphQL format (for readability):

```
{
  evidence {
    getEvidence(
      name: "code-review-1740575440462.json") {
      name
      path
      repositoryKey
        downloadPath
      sha256
      predicateSlug
      predicateCategory
      predicateType
      predicate
      createdAt
      createdBy
      verified
      signingKey {
        subject {
          repositoryKey
          path
          name
        }
        sha256
        predicateSlug
        predicateCategory
        predicateType
        predicate
        createdAt
        createdBy
        verified
        signingKey {
          alias
        }
      }
    }
  }
}
```

### Sample query after conversion to JSON (for purposes of execution):

```
{
  "query": "{ evidence { getEvidence( name: \"code-review-1740575440462.json\") { downloadPath subject { repositoryKey path name } sha256 predicateSlug predicateCategory predicateType predicate createdAt createdBy verified signingKey { alias } } } }"
}
```

### Tip

Use a GraphQL to JSON body converter (available online) to create the proper payload for the REST API POST request. Alternatively, the GraphQL query can be used in tools such as GraphiQL.

The query uses the following criteria to determine which evidence file to include in the response:

Property	Sub-property	Mandatory/Optional	Description
downloadPath		optional	The full repository path of the evidence file, which can be used for downloading the file.
subject			The evidence subject.

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Property	Sub-property	Mandatory/Optional	Description
	repositoryKey	optional	The name of the repository that contains the evidence file.
	path	optional	The directory path + filename of the evidence subject.
	name	optional	The filename of the evidence file.
	sha256	optional	The checksum of the subject.

The search query can include one or more of the following properties, which determine the data fields to return from the evidence file:

Property	Description
sha256	The checksum of the evidence file.
predicateSlug	A simplified version of the predicateType (after removing the http:// or https:// schema, the query string, the trailing version, and the jfrog.com domain) provided for better readability.  For example, the predicateType <a href="https://jfrog.com/evidence/release-bundle/v1">https://jfrog.com/evidence/release-bundle/v1</a> is shortened to release-bundle.
predicateCategory	The category in which the evidence file is classified, as defined by the predicateType. Categories include: <ul style="list-style-type: none"> <li>• <b>Audit</b> (for example, approvals)</li> <li>• <b>Quality</b> (for example, test results)</li> <li>• <b>Security</b> (for example, evidence related to SAST and code scans)</li> <li>• <b>Workflow</b> (for example, internal evidence relating to the promotion and distribution of Release Bundles)</li> <li>• <b>Custom</b> (other types of external evidence attached by the user)</li> </ul>
predicateType	The URL type associated with the predicate. For more information, see Evidence Payload.
predicate	The contents of the claims made in the evidence file.

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Property	Description
createdAt	The timestamp of when the evidence file was created.
createdBy	The user who created the evidence.
verified	Whether the evidence has been verified on the server side in Artifactory using the public key.
signingKey.alias	The name of the public key used to verify the evidence.

## Sample response:

```
{  
    "data": {  
        "evidence": {  
            "getEvidence": {  
                "downloadPath": "graph-  
repo/.evidence/8aba4330bb05cb8a8900f01118de6cdbcd8be6f0b43021cd80245ed13bf71ad9/f87e4c72e60300b451739d545afc0251a6e2f4bd1beaa  
1902ba739455897ecb8/code-review-1741006559813.json",  
                "repositoryKey": "graph-repo",  
                "path": "commons-1.0.0.txt",  
                "subject": {  
                    "repositoryKey": "graph-repo",  
                    "path": "commons-1.0.0.txt",  
                    "name": "code-review-1741006559813.json"  
                },  
                "path": "1/a/file.txt",  
                "repositoryKey": "commons-dev-generic-local",  
                "downloadPath": "commons-dev-generic-  
local/.evidence/f9f3100eea27f7884a9f3e6883d22191cc6cf4a5421f2617bcf6b42f9a2f7a1/69d29925ba75eca8e67e0ad99d1132b47d599c206382  
049bc230f2edd2d3af30/code-review-1723469267345.json",  
                "sha256": "1eabcdcc540892a292d59303b0cc6cee32750731b2c794fb2e603b1e98e0811f",  
                "predicateSlug": "code-review",  
                "predicateCategory": "Custom",  
                "predicateType": "https://jfrog.com/evidence/code-review/v0.1",  
                "predicate": {  
                    "committer": "Dennis Sheridan",  
                    "review-result": "PASSED",  
                    "reviewLink": "https://git.jfrog.com/commons/abc",  
                    "reviewer": "Mickey Keller",  
                    "timestamp": "2030-01-01T00:00:00.000Z"  
                },  
                "createdAt": "2025-01-01T00:00:00.000Z",  
                "createdBy": "admin",  
                "verified": true  
            },  
            "publicKey": {}  
        }  
    }  
}
```

## Status Codes:

Code	Description
200	OK
401	Bad Credentials
403	Permission Denied

#### 2.5.4 | Delete Evidence

**Description:** Deletes the specified evidence file and its database record.

**Since:** 7.104.2

**Security:** Requires a valid token; requires Read and Delete permissions to the subject repository path

**Usage:** `DELETE /evidence/api/v1/evidence/{subject-repo-path}/{evidence-name}`

**Sample Query:**

```
curl --location --request DELETE 'http://<url>/evidence/api/v1/evidence/<path to the artifact>/<artifact full name>/<evidence's file name as was downloaded>' \
--header 'Authorization: *****'
```

**Query Parameters (optional):**

Field	Type	Description
sha256	string	An optional checksum of the evidence file.

**Response Body:** (empty)

**Status Codes:**

Code	Description
204	Deleted
401	Bad Credentials
403	Permission Denied
404	Not Found

# JFrog REST APIs Displayed in the header

## 2.5.5 | Evidence One Model GraphQL Schema

To start using OneModel GraphQL queries for Evidence, refer to the schema and usage example below.

### Note

When using OneModel GraphQL, make sure your token audience is configured as wildcard, or \*@\*. For more information, see [Create Token](#).

```
"""
Executable directive to specify the date format to use for Date fields in the query response
"""
directive @dateFormat(format: DateFormat! = ISO8601) on FIELD

"""
Schema directive, used to specify the owner of an entity type. This directive must be used on all entity types, only by the
owner of the entity, not by subgraph providers which extend the entity.
Used for both documenting ownership and enforcing having a single owner.
"""
directive @owner(
    """
    JFrog product which is the owner of the type
    """
    product: String!
) on SCALAR | OBJECT | INTERFACE | UNION | ENUM | INPUT_OBJECT

"""
Schema directive, used to mark a type or a field as experimental, i.e. not part of the contract and can be removed / changed
at any time.
"""
directive @experimental(
    """
    Optional comment on the experimental schema item
    """
    comment: String
) on SCALAR | OBJECT | FIELD_DEFINITION | ARGUMENT_DEFINITION | INTERFACE | UNION | ENUM | ENUM_VALUE | INPUT_OBJECT | INPUT_FIELD_DEFINITION

"""
Supported date formats for Date fields
"""
enum DateFormat @owner(product: "onemode") {
    """
    ISO-8601 - e.g. 1994-11-05T13:15:30.972Z
    """
    ISO8601
    """
    ISO-8601-Date - e.g. 1994-11-05
    """
    ISO8601_DATE_ONLY
    """
    e.g. 05 Nov 1994
    """
    DD_MMM_YYYY
}

"""
Possible directions in which to order a sorted list of items when provided an `orderBy` argument
"""
enum SortOrderDirection @owner(product: "onemode") {
    """
    Ascending order
    """
    ASC
    """
    Descending order
    """
    DESC
}
```

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```
"""
Date type, string value, supports the @dateFormat directive, by default follows the [ISO-8601 standard]
(https://www.w3.org/TR/NOTE-datetime) with millisecond precision and timezone. For example: "1994-11-05T13:15:30.972Z"
"""

scalar Date @owner(product: "onemode1")

"""

Unified Resource Identifier type, string value, follows the [RFC-3986](https://datatracker.ietf.org/doc/html/rfc3986)
standard
"""

scalar URI @owner(product: "onemode1")

"""

[Relay Cursor](https://relay.dev/graphql/connections.htm#sec-Cursor) type, an obfuscated string value representing a position
during pagination.
"""

scalar Cursor @owner(product: "onemode1")

"""

Digest type, string value, in the format: "<alg>:<digest>"
Example:
sha256:68e656b251e67e8358bef8483ab0d51c6619f3e7a1a9f0e75838d41ff368f728
"""

scalar Digest @owner(product: "onemode1")

"""

SHA-256 string formatted as HEX value (lowercase).
Matches regular expression: "[a-f0-9]{64}$".

Example: "7ab0a6527f661c55b02b29fb3b7d2a7313215c1140337b0cd980d06c3975a14" (SHA-256 of "JFrog")
"""

scalar Sha256 @owner(product: "onemode1")

"""

Arbitrary JSON object.
"""

scalar JSON @owner(product: "onemode1")

"""

Page information, part of results pagination, as defined by [Relay PageInfo](https://specs.apollo.dev/federation/v2.9", import: ["@key", "@shareable", "@composeDirective"])
@link(url: "https://jfrog.com/onemode1/v1.0", import: ["@owner", "@experimental"])
@composeDirective(name: "@owner")
@composeDirective(name: "@experimental")
extend type Query {
    evidence: EvidenceQueries!
```

# JFrog REST APIs Displayed in the header

```
}

"""

Queries for getting evidence.

"""

type EvidenceQueries @owner(product: "jfevd") {

    """
    Get an evidence by its repository key, path, name, and optional sha256.
    """

    getEvidence(repositoryKey: String!, path: String!, name: String!, sha256: Sha256): Evidence @goField(forceResolver: true)

    """
    Search for evidence based on the provided where clause. Where clause consists of repository key, optional path, optional name, and optional sha256.
    """

    searchEvidence(where: EvidenceWhereInput!, first: Int, after: Cursor): EvidenceConnection @goField(forceResolver: true)
}

"""

Where clause for searching evidence of subjects that match the given input.

"""

input EvidenceWhereInput @owner(product: "jfevd") {
    hasSubjectWith: EvidenceSubjectWhereInput!
}

"""

The desired subjects parameters to search for evidence.

"""

input EvidenceSubjectWhereInput @owner(product: "jfevd") {
    repositoryKey: String!
    path: String
    name: String
    sha256: Sha256
}

"""

Connection for evidence. Allows pagination over the evidence.

"""

type EvidenceConnection @owner(product: "jfevd") {
    edges: [EvidenceEdge!]
    pageInfo: PageInfo!
    totalCount: Int!
}

"""

Edge for evidence with its cursor in the paginated evidence.

"""

type EvidenceEdge @owner(product: "jfevd") {
    node: Evidence!
    cursor: Cursor
}

"""

Evidence represents an artifact (subject) evidence.

"""

type Evidence @owner(product: "jfevd") {
    downloadPath: String
    repositoryKey: String
    path: String
    name: String
    sha256: Sha256
    predicateCategory: String
    predicateType: String
    predicateSlug: String
    predicate: JSON @goField(forceResolver: true)
    createdAt: Date
    createdBy: String
    verified: Boolean
    signingKey: EvidenceSigningKey
}
```

# JFrog REST APIs Displayed in the header

```
"""
Evidence signing key represents the signing key used to sign the evidence.
"""

type EvidenceSigningKey @owner(product: "jfevd") {
    alias: String
}
```

## 2.6 | COLD STORAGE

The sections below provide a comprehensive listing of the REST resources exposed by Cold Storage. These API calls must be performed on the Live Artifactory instance.

### Authentication

To use your API key for **Basic Authentication**, it must be generated using Artifactory 7.27.3 or later. If generated using a previous version, you **must** regenerate your API key and use the new key as a password for basic authentication.

#### 2.6.1 | Base URL

The Platform REST URL is constructed of:

```
<Live_Artifactory_URL>/<Service Context>/api/
```

For example:

```
# Using your JFrog URL
http://myjfrog.acme.org/artifactory/api/retention
```

```
# Using your Live Artifactory server hostname and the Artifactory router port
http://LIVE_ARTIFACTORY_SERVER_HOSTNAME:8081/artifactory/api/retention
```

#### 2.6.2 | Example - Running an Archive Policy

The example below demonstrates how to invoke the Run Archive Policy REST API with the following assumptions:

- You are using cURL from the Unix command line, and are presently working from the **home (~) directory** of the admin user **myUser**
- You have the Live Artifactory instance running on your local system on **port 8082**
- You wish to run an archive policy called *myPolicy*
- You have configured an admin user named **myUser**, with the password **myP455w0rd!**
- Your API Key is **ABcdEF**

To execute a call using basic authentication, you would use the following command:

```
curl -u myUser:myP455w0rd! -X POST http://SERVER_HOSTNAME:8082/artifactory/api/retention/archive/policies/mPolicy/trigger
```

To execute a call using your **API Key** for basic authentication, you would use the following command:

```
curl -u myUser:ABcdEF -X POST http://SERVER_HOSTNAME:8082/artifactory/api/retention/archive/policies/mPolicy/trigger
```

To execute a call using your **API Key** in a header, you would use the following command:

```
curl -H "X-JFrog-Art-Api:ABcdEF" -X POST
http://SERVER_HOSTNAME:8082/artifactory/api/retention/archive/policies/mPolicy/trigger
```

To execute a call using an **access token** for basic authentication, you would use the following command:

```
curl -u myUser:<Token> -X POST http://SERVER_HOSTNAME:8082/artifactory/api/retention/archive/policies/mPolicy/trigger
```

To execute a call **access token** in a header, you would use the following command:

```
curl -H "Authorization: Bearer <Token>" -X POST
http://SERVER_HOSTNAME:8082/artifactory/api/retention/archive/policies/mPolicy/trigger
```

### 2.6.3 | Create an Archive Policy

**Description:** Creates a new archive policy in Artifactory using the provided policy configuration.

#### Note

This Cold Storage feature is available only for Artifactory Enterprise and Enterprise+ users.

**Since:** Artifactory 7.27.3

**Security:** Requires an admin user

**Usage:** POST /api/retention/archive/policies/{key}

**Produces:** application/json

**Consumes:** application/json

#### Request Parameters:

Parameters	Type	Description	Required/Optional
packageRetention	boolean	Determines whether the archive policy works on packages (true) or artifacts (false).  The default value is false.	Required
key	string	Unique policy key that identifies the policy.	Required
enabled	boolean	Enable/disable policy. If disabled, policy execution is blocked.	Required
cronExp	string	The Cron expression for scheduling the policy.	Required
aqlQuery	string	Search for artifacts to be archived using <a href="#">Artifactory Query Language (AQL)</a> . This can be used instead of <code>searchCriteriaForm</code> to include/exclude artifacts in the retention policy.  The AQL query can be to: <ul style="list-style-type: none"><li>• Include or exclude a repository, inner path, or artifact name (one or many)</li><li>• Include or exclude associated properties (one or many)</li><li>• Include an age</li><li>• Last downloaded before configurable X (weeks, months, years)</li><li>• Deployed before configurable X (weeks, months, years)</li></ul>	Required if <code>searchCriteriaForm</code> is not provided.  <b>Note</b>  <code>aqlquery</code> cannot be used for packages.

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Parameters	Type	Description	Required/Optional
<b>Note</b>			
		You may run AQL queries only on the <b>Item</b> domain. Other primary domains, such as Build, Entry, Promotion, and Release are not supported.	
searchCriteriaForm	string	Search Criteria Form for retention policy. This can be used instead of aqlQuery to include/exclude artifacts in the retention policy.	Required if aqlQuery is not provided
description	string	Description for the policy.	Optional
durationInMinutes	long	The maximum duration (in minutes) for policy execution. If policy execution exceeds this period, it is stopped.	Optional
expirationTimeInMonths	long	The expiration period (in months) that it takes for archived artifacts to be cleaned up from the Cold instance.	Optional
skipTrashcan	boolean	Prevent the transfer of the artifacts to the trash can repository, and allow the artifacts to be deleted by a full GC cleanup.  Default value is <b>false</b> .	Optional

### Package Search Criteria Form

Field	Type	Description	Required/Optional
packageType	string	The package type to be archived (for example, Docker).	Required
componentName	string	Wildcards are supported.	Optional
version	string	Wildcards are supported.	Optional
packageRepos	string	List of repository keys included in the package to be archived.	Required
createdBefore	long	Include all items that were created before the time provided (in ms).	Optional

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Field	Type	Description	Required/Optional
downloadedBefore	long	Include all items that were last downloaded before the time provided (in ms).	Optional

## Artifact Search Criteria Form

You must define at least one of the following criteria in your search:

- Properties
- Path
- Names
- Repositories

Field	Type	Description
properties	string	<p>Include/Exclude all properties with the specified propertyKey and a single propertyValue.</p> <p>Supports and/or operator.</p> <p>Example</p> <pre>"properties": {   "include": {     "operator": "or",     "values": [       {         "propertyKey": "example-prop-key-1",         "propertyValue": "prop-val-1"       },       {         "propertyKey": "example-prop-key-1",         "propertyValue": "prop-val-2"       }     ],     "exclude": {       "operator": "or",       "values": [         {           "propertyKey": "example-prop-key-2",           "propertyValue": "prop-val-1"         }       ]     } }</pre>
repositories	string	<p>Include/Exclude all repository keys.</p> <p>Supports and/or operator.</p> <p>Example</p> <pre>"repositories": {   "include": {     "operator": "or",     "values": [       "repo-1",       "repo-2"     ]   } }</pre>

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Field	Type	Description
		<pre>         ],       },       "exclude": {         "operator": "and",         "values": [           "repo-*",           "*-3"         ]       }     }   } } </pre>
path	string	<p>Include/Exclude all items with specified paths</p> <p>Supports and/or operator.</p> <p><b>Example</b></p> <pre> "paths": {   "include": {     "operator": "or",     "values": [       "path-1",       "path-2"     ]   },   "exclude": {     "operator": "or",     "values": [       "path-3"     ]   } } </pre>
name	string	<p>Include/Exclude all items with the specified names.</p> <p>Supports and/or operator.</p> <p><b>Example</b></p> <pre> "names": {   "include": {     "operator": "or",     "values": [       "name-1",       "name-2"     ]   },   "exclude": {     "operator": "or",     "values": [       "name-3"     ]   } } </pre>
createdBefore	long	Include all items that were created before the time provided (in months).
downloadedBefore	long	Include all items that were last downloaded before the time provided (in months).

Sample Artifact Request: Using aqlQuery parameter

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**POST /api/retention/archive/policies/example-policy-key**

```
{  
  "key": "example-policy-key",  
  "enabled": true,  
  "description": "policy description",  
  "aqlQuery": "items.find({\"type\":{\"$eq\":\"file\"}})",  
  "cronExp": "0 15 10 L * ?",  
  "durationInMinutes": 0,  
  "expirationTimeInMonths": 0,  
  "skipTrashcan": true  
}
```

**Sample Response:** Same as request.

**Sample Artifact Request: Using searchCriteriaForm parameter**

**POST /api/retention/archive/policies/example-policy-key**

```
{  
  "key": "myPolicy",  
  "description": "Demo policy - archive using search criteria form",  
  "enabled": true,  
  "searchCriteriaForm": {  
    "properties": {  
      "include": {  
        "values": [{  
          "propertyKey": "sd",  
          "propertyValue": "sd"  
        }]  
      },  
      "exclude": {  
        "values": [  
        ]  
      }  
    },  
    "repositories": {  
      "include": {  
        "values": [  
          "include-*",  
          "*-repo"  
        ]  
      },  
      "exclude": {  
        "values": []  
      }  
    },  
    "paths": {  
      "include": {  
        "values": []  
      },  
      "exclude": {  
        "values": [  
          "exclude-*",  
          "*-path"  
        ]  
      }  
    },  
    "createdBefore": 2,  
    "downloadedBefore": 3  
  }  
}
```

**Sample Response:** Same as request.

**Sample Package Request:**

```
{  
  "key": "package-local-to-local-policy-6095",  
  "enabled": true,  
  "skipTrashcan": true,
```

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```
"packageRetention": true,  
"packageSearchCriteriaForm": {  
    "packageType": "docker",  
    "packageRepos": [  
        "package-archive-local-to-local-repo-6095"  
    ]  
}  
}
```

**Sample Response:** Same as request.

### Status:

201: Success

409: If a policy with the specified policyKey already exists, the call fails with a 409 response.

### 2.6.4 | Convert Search Criteria Form to AQL

**Description:** Generates an AQL query according to the given search criteria form. The generated AQL query can then be used to perform a search.

#### Note

This Cold Storage feature is available only for Artifactory Enterprise and Enterprise+ users.

**Since:** Artifactory 7.27.3

**Security:** Requires an admin user

**Usage:** POST /api/retention/archive/policies/convertToAql

**Produces:** application/json

**Consumes:** text/plain

#### Query Parameters:

Field	Type	Description
properties	string	<p>Include/Exclude all properties with the specified “propertyKey” and a single “propertyValue”. Supports and/or operator. <b>Example</b></p> <pre>"properties": {     "include": {         "operator": "or",         "values": [             {                 "propertyKey": "example-prop-key-1",                 "propertyValue": "prop-val-1"             },             {                 "propertyKey": "example-prop-key-1",                 "propertyValue": "prop-val-2"             }         ]     },     "exclude": {         "operator": "or",         "values": [             {                 "propertyKey": "example-prop-key-2",                 "propertyValue": "prop-val-1"             }         ]     } }</pre>

# JFrog REST APIs Displayed in the header

Field	Type	Description
repositories	string	<pre>         }       ]     } } </pre> <p>Include/Exclude all repository keys. Supports and/or operator.</p> <p><b>Example</b></p> <pre> "repositories": {   "include": {     "operator": "or",     "values": [       "repo-1",       "repo-2"     ]   },   "exclude": {     "operator": "and",     "values": [       "repo-*",       "*-3"     ]   } } </pre>
path	string	<p>Include/Exclude all items with specified paths Supports and/or operator.</p> <p><b>Example</b></p> <pre> "paths": {   "include": {     "operator": "or",     "values": [       "path-1",       "path-2"     ]   },   "exclude": {     "operator": "or",     "values": [       "path-3"     ]   } } </pre>
name	string	<p>Include/Exclude all items with the specified names. Supports and/or operator.</p> <p><b>Example</b></p> <pre> "names": {   "include": {     "operator": "or",     "values": [       "name-1",       "name-2"     ]   } } </pre>

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Field	Type	Description
		<pre>         },         "exclude": {           "operator": "or",           "values": [             "name-3"           ]         }       }     }   } } </pre>
createdBefore	long	Include all items that were created before the time provided (in months)
downloadedBefore	long	Include all items that were last downloaded before the time provided (in months)

### Sample Request:

**POST /api/retention/archive/policies/convertToAql**

```
{
  "properties": {
    "include": {
      "operator": "or",
      "values": [
        {
          "propertyKey": "example-prop-key-1",
          "propertyValue": "prop-val-1"
        },
        {
          "propertyKey": "example-prop-key-1",
          "propertyValue": "prop-val-2"
        }
      ]
    },
    "exclude": {
      "operator": "or",
      "values": [
        {
          "propertyKey": "example-prop-key-2",
          "propertyValue": "prop-val-1"
        }
      ]
    }
  },
  "repositories": {
    "include": {
      "operator": "or",
      "values": [
        "repo-1",
        "repo-2"
      ]
    },
    "exclude": {
      "operator": "and",
      "values": [
        "repo-*",
        "*-3"
      ]
    }
  },
  "paths": {
    "include": {
      "operator": "or",
      "values": [

```

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```
"path-1",
"path-2"
]
},
"exclude": {
  "operator": "or",
  "values": [
    "path-3"
  ]
}
},
"names": {
  "include": {
    "operator": "or",
    "values": [
      "name-1",
      "name-2"
    ]
  },
  "exclude": {
    "operator": "or",
    "values": [
      "name-3"
    ]
  }
},
"createdBefore": 1628668945,
"downloadedBefore": 1628668945
}
```

## Sample Response:

```
items.find(
{
  "$and": [
    {
      "$or": [
        {
          "@example-prop-key-1": {
            "$match": "prop-val-1"
          }
        },
        {
          "@example-prop-key-1": {
            "$match": "prop-val-2"
          }
        }
      ]
    },
    {
      "$or": [
        {
          "@example-prop-key-2": {
            "$nmatch": "prop-val-1"
          }
        }
      ]
    },
    {
      "$or": [
        {
          "repo": {
            "$match": "repo-1"
          }
        },
        {
          "repo": {
            "$match": "repo-2"
          }
        }
      ]
    }
  ]
},
```

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```
        ]
    },
{
    "$and": [
        {
            "repo": {
                "$nmatch": "repo-*"
            }
        },
        {
            "repo": {
                "$nmatch": "*-3"
            }
        }
    ]
},
{
    "$or": [
        {
            "path": {
                "$match": "path-1"
            }
        },
        {
            "path": {
                "$match": "path-2"
            }
        }
    ]
},
{
    "$or": [
        {
            "path": {
                "$nmatch": "path-3"
            }
        }
    ]
},
{
    "$or": [
        {
            "name": {
                "$match": "name-1"
            }
        },
        {
            "name": {
                "$match": "name-2"
            }
        }
    ]
},
{
    "$or": [
        {
            "name": {
                "$nmatch": "name-3"
            }
        }
    ]
},
{
    "created": {
        "$lt": "1628668945"
    }
},
{
    "stat.downloaded": {
        "$lt": "1628668945"
    }
}
```

```
        }
    ]
}
)
```

**Status:**

200: Success

## 2.6.5 | Run an Archive Policy

**Description:** Runs an archive policy based on the provided policy key.

**Note**

This Cold Storage feature is available only for Artifactory Enterprise and Enterprise+ users.

**Since:** Artifactory 7.27.3

**Security:** Requires an admin user

**Usage:** POST /api/retention/archive/policies/{key}/trigger

**URL Parameters:**

Parameters	Type	Description	Required/Optional
key	string	Key of the policy that needs to be run.	Required

**Sample Request:**

```
POST /api/retention/archive/policies/example-policy-key/trigger
```

**Sample Response:**

Retention policy ‘example-policy-key’ execution request has been accepted for processing.

**Status:**

200: Success

## 2.6.6 | Update an Archive Policy

**Description:** Updates an existing archive policy based on the policy key.

**Note**

This Cold Storage feature is available only for Artifactory Enterprise and Enterprise+ users.

**Since:** Artifactory 7.27.3

**Security:** Requires an admin user

**Usage:** PUT /api/retention/archive/policies/{key}

**Produces:** application/json

**Consumes:** application/json

**Request Parameters:**

# JFrog REST APIs Displayed in the header

Parameters	Type	Description	Required/Optional
key	string	Unique policy key that identifies the policy.	Required
enabled	boolean	Enable/disable policy. If disabled, policy execution is blocked.	Required
cronExp	string	The Cron expression for scheduling the policy.	Required
aqlQuery	string	<p>Search for artifacts to be archived using <a href="#">Artifactory Query Language (AQL)</a>. This can be used instead of <code>searchCriteriaForm</code> to include/exclude artifacts in the retention policy.</p> <p>The AQL query can be based on these properties:</p> <ul style="list-style-type: none"> <li>Include or exclude repository and an inner path (one or many)</li> <li>Include or exclude associated properties (one or many)</li> <li>Include an age</li> <li>Last downloaded before configurable X (weeks, months, years)</li> <li>Deployed before configurable X (weeks, months, years)</li> </ul>	Required if <code>searchCriteriaForm</code> is not provided
searchCriteriaForm	string	Search Criteria Form for retention policy. This can be used instead of <code>aqlQuery</code> to include/exclude artifacts in the retention policy.	Required if <code>aqlQuery</code> is not provided
description	string	Description for the policy.	Optional
durationInMinutes	long	<p>The maximum duration (in minutes) for policy execution. If policy execution exceeds this period, it is stopped.</p> <p>Default value is 0.</p>	Optional
expirationTimeInMonths	long	<p>The expiration period (in months) that it takes for archived artifacts to be cleaned up from the Cold instance.</p> <p>Default value is 0.</p>	Optional
skipTrashcan	boolean	<p>Prevent the transfer of the artifacts to the trash can repository, and allow the artifacts to be deleted by a full GC cleanup.</p> <p>Default value is <code>false</code>.</p>	Optional

# JFrog REST APIs

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### Search Criteria Form

Field	Type	Description
properties	string	<p>Include/Exclude all properties with the specified "propertyKey" and a single "propertyValue".</p> <p>Supports and/or operator.</p> <p><b>Example</b></p> <pre>"properties": {   "include": {     "operator": "or",     "values": [       {         "propertyKey": "example-prop-key-1",         "propertyValue": "prop-val-1"       },       {         "propertyKey": "example-prop-key-1",         "propertyValue": "prop-val-2"       }     ],     "exclude": {       "operator": "or",       "values": [         {           "propertyKey": "example-prop-key-2",           "propertyValue": "prop-val-1"         }       ]     } }</pre>
repositories	string	<p>Include/Exclude all repository keys.</p> <p>Supports and/or operator.</p> <p><b>Example</b></p> <pre>"repositories": {   "include": {     "operator": "or",     "values": [       "repo-1",       "repo-2"     ]   },   "exclude": {     "operator": "and",     "values": [       "repo-*",       "*-3"     ]   } }</pre>
path	string	<p>Include/Exclude all items with specified paths</p> <p>Supports and/or operator.</p> <p><b>Example</b></p>

# JFrog REST APIs Displayed in the header

Field	Type	Description
		<pre> "paths": {   "include": {     "operator": "or",     "values": [       "path-1",       "path-2"     ]   },   "exclude": {     "operator": "or",     "values": [       "path-3"     ]   } } </pre>
name	string	<p>Include/Exclude all items with the specified names.</p> <p>Supports and/or operator.</p> <p><b>Example</b></p> <pre> "names": {   "include": {     "operator": "or",     "values": [       "name-1",       "name-2"     ]   },   "exclude": {     "operator": "or",     "values": [       "name-3"     ]   } } </pre>
createdBefore	long	Include all items that were created before the relative time provided (such as, 2 years ago, 3 months ago)
downloadedBefore	long	Include all items that were last downloaded before the relative time provided (such as, 2 years ago, 3 months ago)

## Sample Request: Using aqlQuery parameter

**PUT /api/retention/archive/policies/example-policy-key**

```
{
  "key": "example-policy-key",
  "enabled": true,
  "description": "policy description",
  "aqlQuery": "items.find({\"type\":{$eq:\"file\"}})",
  "cronExp": "0 15 10 L * ?",
  "durationInMinutes": 0,
  "expirationTimeInMonths": 0,
  "skipTrashcan": true
}
```

## Sample Response: For aqlQuery parameter

# JFrog REST APIs Displayed in the header

```
{  
    "key": "example-policy-key",  
    "enabled": true,  
    "description": "policy description",  
    "aqlQuery": "items.find({\"type\":{\"$eq\":\"file\"}})",  
    "cronExp": "0 15 10 L * ?",  
    "durationInMinutes": 0,  
    "expirationTimeInMonths": 0,  
    "skipTrashcan": true  
}
```

## Sample Request: Using searchCriteriaForm parameter

```
{  
    "key": "myPolicy",  
    "description": "Demo policy - archive using search criteria form",  
    "enabled": false,  
    "searchCriteriaForm": {  
        "properties": {  
            "include": {  
                "values": [{  
                    "propertyKey": "updated",  
                    "propertyValue": "updated"  
                }]  
            },  
            "exclude": {  
                "values": [  
                ]  
            }  
        },  
        "repositories": {  
            "include": {  
                "values": [  
                    "include-*",  
                    "*-repo"  
                ]  
            },  
            "exclude": {  
                "values": []  
            }  
        },  
        "paths": {  
            "include": {  
                "values": []  
            },  
            "exclude": {  
                "values": [  
                    "exclude-*",  
                    "*-path"  
                ]  
            }  
        },  
        "createdBefore": 2,  
        "downloadedBefore": 3  
    }  
}
```

## Sample Response: : Using searchCriteriaForm parameter

```
{  
    "key": "myPolicy",  
    "enabled": false,  
    "description": "Demo policy - archive using search criteria form",  
    "durationInMinutes": 0,  
    "expirationTimeInMonths": 0,  
    "skipTrashcan": false,  
    "searchCriteriaForm": {  
        "properties": {  
            "include": {  
                "operator": "or",  
                "values": [  
                ]  
            }  
        }  
    }  
}
```

## JFrog REST APIs Displayed in the header

```
{  
    "propertyKey": "updated",  
    "propertyValue": "updated"  
}  
]  
,  
"exclude": {  
    "operator": "or",  
    "values": []  
}  
}  
,  
"repositories": {  
    "include": {  
        "operator": "or",  
        "values": [  
            "include-*",  
            "*-repo"  
        ]  
    },  
    "exclude": {  
        "operator": "or",  
        "values": []  
    }  
},  
"paths": {  
    "include": {  
        "operator": "or",  
        "values": []  
    },  
    "exclude": {  
        "operator": "or",  
        "values": [  
            "exclude-*",  
            "*-path"  
        ]  
    }  
},  
"createdBefore": 2,  
"downloadedBefore": 3  
}  
}
```

### Status:

201: Success

## 2.6.7 | Stop Policy Execution

**Description:** Stops the execution of an archive policy based on the policy key.

### Note

This Cold Storage feature is available only for Artifactory Enterprise and Enterprise+ users.

**Since:** Artifactory 7.27.3

**Security:** Requires an admin user

**Usage:** POST /api/retention/archive/policies/{key}/stop

**Produces:** application/json

**Consumes:** application/json

### Query Parameters:

## JFrog REST APIs Displayed in the header

Parameters	Type	Description	Required/Optional
key	string	Unique policy key that identifies the policy to be stopped.	Required

### Sample Request:

```
POST /api/retention/archive/policies/{key}/stop
```

```
POST /api/retention/archive/policies/{key}/stop
```

### Status:

202

## 2.6.8 | Delete an Archive Policy

**Description:** Deletes an existing archive policy based on policy key.

### Note

This Cold Storage feature is available only for Artifactory Enterprise and Enterprise+ users.

**Since:** Artifactory 7.27.3

**Security:** Requires an admin user

**Usage:** DELETE /api/retention/archive/policies/{key}

### URL Parameters:

Parameters	Type	Description	Required/Optional
key	string	Key of the policy that needs to be deleted.	Required

### Sample Request:

```
DELETE /api/retention/archive/policies/example-policy-key
```

### Sample Response:

Retention policy example-policy-key was deleted successfully.

### Status:

201: Success

## 2.6.9 | Get All Archive Policies

**Description:** Returns a list of all available archive policies.

### Note

This Cold Storage feature is available only for Artifactory Enterprise and Enterprise+ users.

**Since:** Artifactory 7.27.3

**Security:** Requires an admin user

# JFrog REST APIs Displayed in the header

**Usage:** GET /api/retention/archive/policies

**Produces:** application/json

**Sample Request:**

```
GET /api/retention/archive/policies
```

**Sample Response:** (myPolicy without cronExp, myPolicy2 with cronExp)

```
[  
  {  
    "key": "myPolicy",  
    "enabled": false,  
    "description": "Demo policy - archive using search criteria form",  
    "durationInMinutes": 0,  
    "expirationTimeInMonths": 0,  
    "skipTrashcan": false,  
    "searchCriteriaForm": {  
      "properties": {  
        "include": {  
          "operator": "or",  
          "values": [  
            {  
              "propertyKey": "updated",  
              "propertyValue": "updated"  
            }  
          ]  
        },  
        "exclude": {  
          "operator": "or",  
          "values": []  
        }  
      },  
      "repositories": {  
        "include": {  
          "operator": "or",  
          "values": [  
            "include-*",  
            "*-repo"  
          ]  
        },  
        "exclude": {  
          "operator": "or",  
          "values": []  
        }  
      },  
      "paths": {  
        "include": {  
          "operator": "or",  
          "values": []  
        },  
        "exclude": {  
          "operator": "or",  
          "values": [  
            "exclude-*",  
            "*-path"  
          ]  
        }  
      },  
      "createdBefore": 2,  
      "downloadedBefore": 3  
    },  
    "lastRunStatus": {  
      "migrationIdentifier": "retention_archive_myPolicy2_OUYEVKCI03",  
      "state": "COMPLETE",  
      "completedNumberOfWorkflows": 0,  
      "failedNumberOfWorkflows": 0,  
      "totalNumberOfWorkflows": 0,  
      "progressPercentage": 0,  
      "startTime": 1632915823313,  
      "endTime": null  
    }  
  }]
```

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```

        "finishTime": 1632915823355,
        "totalByteSize": 0,
        "successByteSize": 0,
        "failureByteSize": 0,
        "triggeredBy": "admin",
        "policyName": "myPolicy"
    }
},
{
    "key": "myPolicy2",
    "enabled": true,
    "description": "Demo policy - archive using search criteria form",
    "cronExp": "0 0 0/1 ? * * *",
    "durationInMinutes": 0,
    "expirationTimeInMonths": 0,
    "skipTrashcan": false,
    "searchCriteriaForm": {
        "properties": {
            "include": [
                {
                    "operator": "or",
                    "values": [
                        {
                            "propertyKey": "updated",
                            "propertyValue": "updated"
                        }
                    ]
                },
                {
                    "operator": "or",
                    "values": []
                }
            ],
            "exclude": [
                {
                    "operator": "or",
                    "values": []
                }
            ]
        },
        "repositories": {
            "include": [
                {
                    "operator": "or",
                    "values": [
                        "include-*",
                        "*-repo"
                    ]
                },
                {
                    "operator": "or",
                    "values": []
                }
            ],
            "exclude": [
                {
                    "operator": "or",
                    "values": []
                }
            ]
        },
        "paths": {
            "include": [
                {
                    "operator": "or",
                    "values": []
                }
            ],
            "exclude": [
                {
                    "operator": "or",
                    "values": [
                        "exclude-*",
                        "*-path"
                    ]
                }
            ]
        },
        "createdBefore": 2,
        "downloadedBefore": 3
    },
    "lastRunStatus": {
        "migrationIdentifier": "retention_archive_myPolicy2_OUYEVKCI03",
        "state": "COMPLETE",
        "completedNumberOfWorkflows": 0,
        "failedNumberOfWorkflows": 0,
        "totalNumberOfWorkflows": 0,
        "progressPercentage": 0,
        "startTime": 1632915823313,
        "finishTime": 1632915823355
    }
}

```

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```
"totalByteSize": 0,  
"successByteSize": 0,  
"failureByteSize": 0,  
"triggeredBy": "admin",  
"policyName": "myPolicy2"  
,  
"nextExecutionTime": 1632916800000  
}  
]
```

The response displays the following information:

Property	Description
key	Unique policy key that identifies the policy.
enabled	If the policy is enabled/disabled for execution.
description	Description for the policy.
aqlQuery	The ???query used to search for the artifacts to be archived.
cronExp	The Cron expression is used for scheduling the archive policy.
nextExecutionTime	Time when the policy is scheduled to run next. This depends on the cronExp and the previous execution time.
durationInMinutes	The maximum duration (in minutes) for policy execution.
lastRunStatus	Shows the status of the last policy run. It can be one of the following: <ul style="list-style-type: none"><li>• <b>PENDING</b>: The policy has never been executed.</li><li>• <b>IN_PROGRESS</b>: The policy execution is in progress.</li><li>• <b>IN_PROGRESS_WITH_ERRORS</b>: The policy execution is in progress but encountered one or more errors.</li><li>• <b>COMPLETE</b>: The policy was executed successfully without any errors.</li><li>• <b>COMPLETE_WITH_ERRORS</b>: The policy was executed, but encountered one or more errors.</li><li>• <b>FAILED</b>: The policy execution failed.</li></ul>
totalNumberOfArtifacts	Total number of artifacts to be archived.
completedNumberOfArtifacts	Total number of artifacts that were successfully archived.
failedNumberOfArtifacts	Total number of artifacts that could not be archived.

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Property	Description
progressPercentage	The progress of the archive policy (in percentage).
startTime	Time when the policy started executing. Value is in Unix epoch time in milliseconds.
finishTime	Time when the policy finished executing. Value is in Unix epoch time in milliseconds.
totalByteSize	The total size of the artifacts included in the policy.
successByteSize	The size of the artifacts that were archived.
failureByteSize	The size of the artifacts that couldn't be archived.
expirationTimeInMonths	The expiration period (in months) that it takes for archived artifacts to be cleaned up from the Cold instance.
skipTrashcan	If the transfer of the artifacts to the Trash Can repository is enabled or disabled.

### Status:

200: Success

## 2.6.10 | Get an Archive Policy

**Description:** Returns an archive policy based on the policy key.

### Note

This Cold Storage feature is available only for Artifactory Enterprise and Enterprise+ users.

**Since:** Artifactory 7.27.3

**Security:** Requires an admin user

**Usage:** GET /api/retention/archive/policies/{policyKey}

**Produces:** application/json

### URL Parameter:

Parameters	Type	Description	Required/Optional
policyKey	string	The policy key for which the archive policy details need to be retrieved.	Required

### Sample Request:

```
GET /api/retention/archive/policies/myPolicy2
```

# JFrog REST APIs Displayed in the header

## Sample Response for Artifact Policy:

```
[  
  {  
    "key": "myPolicy2",  
    "enabled": true,  
    "description": "Demo policy - archive using search criteria form",  
    "cronExp": "0 0 0/1 ? * * *",  
    "durationInMinutes": 0,  
    "expirationTimeInMonths": 0,  
    "skipTrashcan": false,  
    "searchCriteriaForm": {  
      "properties": {  
        "include": {  
          "operator": "or",  
          "values": [  
            {  
              "propertyKey": "updated",  
              "propertyValue": "updated"  
            }  
          ]  
        },  
        "exclude": {  
          "operator": "or",  
          "values": []  
        }  
      },  
      "repositories": {  
        "include": {  
          "operator": "or",  
          "values": [  
            "include-*",  
            "*-repo"  
          ]  
        },  
        "exclude": {  
          "operator": "or",  
          "values": []  
        }  
      },  
      "paths": {  
        "include": {  
          "operator": "or",  
          "values": []  
        },  
        "exclude": {  
          "operator": "or",  
          "values": [  
            "exclude-*",  
            "*-path"  
          ]  
        }  
      },  
      "createdBefore": 2,  
      "downloadedBefore": 3  
    },  
    "lastRunStatus": {  
      "migrationIdentifier": "retention_archive_myPolicy2_OUYEVKCI03",  
      "state": "COMPLETE",  
      "completedNumberOfArtifacts": 0,  
      "failedNumberOfArtifacts": 0,  
      "totalNumberOfArtifacts": 0,  
      "progressPercentage": 0,  
      "startTime": 1632915823313,  
      "finishTime": 1632915823355,  
      "totalByteSize": 0,  
      "successByteSize": 0,  
      "failureByteSize": 0,  
      "triggeredBy": "admin",  
      "policyName": "myPolicy2"  
    }  
}
```

## JFrog REST APIs Displayed in the header

```
    },
    "nextExecutionTime": 1632916800000
}
]
```

The response displays the following information:

Property	Description
key	Unique policy key that identifies the policy.
enabled	If the policy is enabled/disabled for execution.
description	Description for the policy.
aqlQuery	The <a href="#">Artifactory Query Language</a> query used to search for the artifacts to be archived.
cronExp	The Cron expression used for scheduling the archive policy.
nextExecutionTime	Time when the policy is scheduled to run next. This depends on the cronExp and the previous execution time.
durationInMinutes	The maximum duration (in minutes) for policy execution.
lastRunStatus	Shows the status of the last policy run. It can be one of the following: <ul style="list-style-type: none"><li>• <b>PENDING</b>: The policy has never been executed.</li><li>• <b>IN_PROGRESS</b>: The policy execution is in progress.</li><li>• <b>IN_PROGRESS_WITH_ERRORS</b>: The policy execution is in progress but encountered one or more errors.</li><li>• <b>COMPLETE</b>: The policy executed successfully without any errors.</li><li>• <b>COMPLETE_WITH_ERRORS</b>: The policy executed, but encountered one or more errors.</li><li>• <b>FAILED</b>: The policy execution failed.</li></ul>
totalNumberOfArtifacts	Total number of artifacts to be archived.
completedNumberOfArtifacts	Total number of artifacts that were successfully archived.
failedNumberOfArtifacts	Total number of artifacts that could not be archived.
progressPercentage	The progress of the archive policy (in percentage).

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Property	Description
startTime	Time when the policy started executing. Value is in Unix epoch time in milliseconds.
finishTime	Time when the policy finished executing. Value is in Unix epoch time in milliseconds.
totalByteSize	The total size of the artifacts included in the policy.
successByteSize	The size of the artifacts that were archived.
failureByteSize	The size of the artifacts that couldn't be archived.
expirationTimeInMonths	The expiration period (in months) that it takes for archived artifacts to be cleaned up from the Cold instance.
skipTrashcan	If the transfer of the artifacts to the trash can repository is enabled or disabled.

### Sample Response for Package Policy:

```
{
  "key": "package-local-to-local-policy-5655",
  "enabled": true,
  "durationInMinutes": 0,
  "expirationTimeInMonths": 0,
  "skipTrashcan": true,
  "packageRetention": true,
  "packageSearchCriteriaForm": {
    "packageType": "docker",
    "packageRepos": [
      "package-archive-local-to-local-repo-5655"
    ]
  },
  "lastRunStatus": {
    "state": "PENDING",
    "policyName": "package-local-to-local-policy-5655"
  }
}
```

In addition to the properties listed above, package policies include the following properties:

Property	Description
packageRetention	Determines whether the archive policy works on packages (true) or artifacts (false).
packageSearchCriteriaForm	See <a href="#">Create an Archive Policy</a> for details.

### Status:

200: Success

## JFrog REST APIs Displayed in the header

### 2.6.11 | Preview Retention Policy by Policy Key

**Description:** Provides an estimated count and total size of archive candidates based on the provided retention policy key.

#### Note

This Cold Storage feature is available only for Artifactory Enterprise and Enterprise+ users.

**Since:** Artifactory 7.27.3

**Security:** Requires an admin user

**Usage:** POST /api/retention/archive/policies/{key}/preview

**Produces:** application/json

**Consumes:** text/plain

#### URL Parameters:

Parameters	Type	Description	Required/Optional
key	string	The policy key for which you want to get a preview.	Required

#### Sample Request:

```
POST /api/retention/archive/policies/example-policy-key/preview
```

#### Sample Response:

```
{ "count": 100000, //archive candidates count      "totalSize": 800000 //total size in bytes }
```

#### Status:

200: Success

### 2.6.12 | Preview Retention Policy by Policy Model

**Description:** Provides an estimated count and total size of archive candidates based on the provided retention policy model.

#### Note

This Cold Storage feature is available only for Artifactory Enterprise and Enterprise+ users.

**Since:** Artifactory 7.27.3

**Security:** Requires an admin user

**Usage:** POST /api/retention/archive/policies/preview

**Produces:** application/json

**Consumes:** text/plain

#### Sample Request:

```
POST /api/retention/archive/policies/preview
```

#### Sample Request:

```
{
  "key": "dfsdf",
  "aqlQuery": "",
  "description": "",
  "cronExp": "",
```

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```

"enabled": true,
"expirationTimeInMonths": 0,
"durationInMinutes": 0,
"nextExecutionTime": null,
"skipTrashcan": false,
"packageRetention": true,
"packageSearchCriteriaForm": {
    "packageType": "generic",
    "packageRepos": [
        "example-repo-local"
    ],
    "componentName": "",
    "version": ""
}
}

```

## Request Parameters:

Parameters	Type	Description	Required/Optional
packageRetention	boolean	Determines whether the archive policy works on packages (true) or artifacts (false).  The default value is <b>false</b> .	Required
key	string	Unique policy key that identifies the policy.	Required
enabled	boolean	Enable/disable policy. If disabled, policy execution is blocked.	Optional
cronExp	string	The Cron expression for scheduling the policy.	Optional
aqlQuery	string	Search for artifacts to be archived using <a href="#">Artifactory Query Language (AQL)</a> . This can be used instead of <code>searchCriteriaForm</code> to include/exclude artifacts in the retention policy.  The AQL query can be to: <ul style="list-style-type: none"> <li>• Include or exclude a repository, inner path, or artifact name (one or many)</li> <li>• Include or exclude associated properties (one or many)</li> <li>• Include an age</li> <li>• Last downloaded before configurable X (weeks, months, years)</li> <li>• Deployed before configurable X (weeks, months, years)</li> </ul>	Required if <code>searchCriteriaForm</code> is not provided. <p><b>Note</b></p> <p>aqlquery cannot be used for packages.</p>

Parameters	Type	Description	Required/Optional
searchCriteriaForm	object	This can be used instead of aqlQuery to include/exclude artifacts in the retention policy.	Required if aqlQuery is not provided
packageType	string	The type of package	Required
packageRepos	string	A list of repositories to which the policy applies	Required
description	string	Description for the policy.	Optional
durationInMinutes	long	The maximum duration (in minutes) for policy execution. If policy execution exceeds this period, it is stopped.	Optional
expirationTimeInMonths	long	The expiration period (in months) that it takes for archived artifacts to be cleaned up from the Cold instance.	Optional
skipTrashcan	boolean	Prevent the transfer of the artifacts to the trash can repository, and allow the artifacts to be deleted by a full GC cleanup.  Default value is false.	Optional

**Sample Response:**

```
{
  "count" : 10, //archive candidates count
  "totalSize" : 80 //total size in bytes
}
```

**Status:**

200: Success

## 2.6.13 | Search for Archives

**Description:** Search for archived artifacts based on AQL query.

**Note**

This Cold Storage feature is available only for Artifactory Enterprise and Enterprise+ users.

**Since:** Artifactory 7.27.3

**Security:** Requires an admin user

**Usage:** POST /api/retention/search

**Produces:** application/json

**Consumes:** text/plain

**Query Parameters:**

# JFrog REST APIs Displayed in the header

Parameters	Type	Description	Required/Optional
aqlQuery	string	<p>Search for archived artifacts using <a href="#">Artifactory Query Language</a>.</p> <p>The AQL query can be based on these properties:</p> <ul style="list-style-type: none"> <li>• Artifact name</li> <li>• Artifact checksum</li> <li>• Artifact properties</li> <li>• Repository and path</li> <li>• Archiving period</li> </ul> <p><b>Note</b></p> <p>When searching for the repository, ensure that the AQL query is for the original repository name only. Do not include the namespace that was generated during the archive process.</p>	Required

## Sample Request:

**POST /api/retention/search**

```
items.find({"repo": "myRepo"}).include("property")
```

## Sample Response:

```
{
  "results" : [ {
    "repo" : "myRepo",
    "path" : ".",
    "name" : "artifactory.20210507233800.td",
    "type" : "file",
    "size" : 145149,
    "created" : "2021-06-30T10:27:01.866Z",
    "created_by" : "admin",
    "modified" : "2021-06-30T10:27:00.414Z",
    "modified_by" : "admin",
    "updated" : "2021-06-30T10:29:06.139Z",
    "properties" : [ {
      "key" : "artifact.lifecycle.archive.time",
      "value" : "1625048946037"
    } ]
  }, {
    "range" : {
      "start_pos" : 0,
      "end_pos" : 1,
      "total" : 1
    }
  }
}
```

## Status:

200: Success

## 2.6.14 | Search for Package Archives

**Description:** Search for archived artifacts based on AQL query.

# JFrog REST APIs Displayed in the header

## Note

This Cold Storage feature is available only for Artifactory Enterprise and Enterprise+ users.

**Since:** Artifactory 7.63.2

**Security:** Requires an admin user

**Usage:** POST /api/retention/searchPackages

**Consumes:** application/json

**Produces:** application/json

### Sample Request:

```
{  
    "packageType": "docker",  
    "repositories": [  
        "docker-local"  
    ],  
    "name": "*"  
}
```

The request includes the following information:

Parameter	Description	Required/Optional
packageType	The package type to search for (for example, Docker).	Required
repositories	The repositories to include in the search results.	Required
name	The package name pattern to include in the search results.	Required
version	The package version to include in the search results.	Optional
archiveTimeFrom	The earliest archive time to include in the search results.	Optional
archiveTimeTo	The latest archive time to include in the search results.	Optional

### Sample Response:

```
{  
    "results" : [ {  
        "manifestName" : "base-java11-2022.10.6-1684150761917.json",  
        "packageType" : "docker",  
        "packageName" : "bases/base-java11",  
        "version" : "2022.10.6",  
        "originalRepository" : "package-local-to-local-repo-5594",  
        "archivingTime" : 1684150761917  
    } ],  
    "range" : {  
        "start_pos" : 0,  
        "end_pos" : 1,  
        "total" : 1  
    }  
}
```

### Status Codes:

Code	Description
200	Completed
400	Bad Request

## 2.6.15 | Get Namespace

**Description:** Get the namespace that was generated for all the repositories during the archive process. This namespace is required when sending a request for restoring artifacts.

### Note

This Cold Storage feature is available only for Artifactory Enterprise and Enterprise+ users.

**Since:** Artifactory 7.27.3

**Security:** Requires an admin user

**Usage:** GET /api/retention/namespace

**Produces:** application/json

### Sample Request:

```
GET /api/retention/namespace
```

### Sample Response:

```
{  
    "jfrogColdStorageNamespaceId": "gbbxmcuj"  
}
```

### Status:

200: Success

## 2.6.16 | Restore from Archive

**Description:** Triggers restoration of multiple items from the Archive. An admin can choose one of the following options:

- Restore items to the original location and provide fallback repository in case the original location was deprecated.
- Restore to a dedicated central repository.

### Important

Restore operation only moves the items back to the Warm instance location and does not delete them from the Cold instance.

### Note

This Cold Storage feature is available only for Artifactory Enterprise and Enterprise+ users.

**Since:** Artifactory 7.27.3

**Security:** Requires an admin user

**Usage:** POST /api/retention/restore

**Consumes:** application/json

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## Query Parameters:

Parameters	Type	Description	Required/Optional
restoreType	string	<p>Determines whether to restore a package (PACKAGE_RESTORE) or artifacts (ARTIFACT_RESTORE).</p> <p>The default value is ARTIFACT_RESTORE.</p>	Required
restoreToOriginal	boolean	<p>Set whether or not to restore to the original artifact location (saved on the Cold instance).</p>	Required if centralDestinationPath is not set
fallbackDestinationPath	string	<p>If restoreToOriginal is set as true and the original location does not exist anymore, restore to this fallback location. fallbackDestinationPath must contain at least the repository key.</p> <p><b>Note</b></p> <p>Before providing the fallbackDestinationPath, ensure that the path already exists.</p>	Required if restoreToOriginal is set
centralDestinationPath	string	<p>The repository key where the files need to be restored. The files will be restored to this repository according to its original path hierarchy. For example, if the repository key is test_repo and the original path is pypi-local/jfrogapp/0.1, the files will be restored to test_repo/pypi-local/jfrogapp/0.1.</p> <p>centralDestinationPath and restoreToOriginal are mutually exclusive.</p> <p><b>Note</b></p> <p>Before providing the centralDestinationPath, ensure that the path already exists.</p>	Required if restoreToOriginal is not set
addNamespace	boolean	<p>This is set as true by default and you do not have to include the namespace when adding items for itemsToRestore.</p> <p>When set as false, you must include the namespace when adding items for itemsToRestore.</p>	Optional
itemsToRestore	string	<p>Comma-separated list of the items or paths to be restored.</p> <p><b>Format:</b> “itemsToRestore”: [“&lt;repository_name&gt;/path/to/file”, “&lt;repository_name&gt;/path/to/folder/” ... ,]</p> <p><b>Note</b></p> <p>Folder paths must end with a / while file paths must not.</p>	Required

# JFrog REST APIs

## Displayed in the header

Parameters	Type	Description	Required/Optional
		<p><b>Note</b></p> <p>Since addNamespace is set as true by default, you do not have to include the namespace with the path for itemsToRestore. However, if addNamespace is set as false, ensure that the repository name includes the namespace that was generated during the archive process and the full repository path.</p> <p><b>Example:</b> gbbxmcuj_pypi-local/jfrogapp/0.1/jfrogapp-0.1.tar.gz</p> <p>Where:</p> <ul style="list-style-type: none"> <li>• gbbxmcuj is the namespace</li> <li>• pypi-local is the name of the repository</li> <li>• jfrogapp/0.1/jfrogapp-0.1.tar.gz is the full path for the item to be restored</li> </ul> <p>For information about getting the namespace, see Get Namespace.</p>	

### Sample Request:

**POST /api/retention/restore**

Restoring artifacts:

```
{
  "restoreType": "ARTIFACT_RESTORE",
  "restoreToOriginal": "false",
  "fallbackDestinationPath": "",
  "centralDestinationPath": "3750-artifacts",
  "itemsToRestore": []
}
```

Restoring packages:

```
{
  "restoreType": "PACKAGE_RESTORE",
  "restoreToOriginal": "false",
  "fallbackDestinationPath": "",
  "centralDestinationPath": "nir",
  "itemsToRestore": [
    "docker-local/docker-alpine-tag-11003.json",
    "docker-local/docker-alpine-tag-11004.json",
    "docker-local/docker-alpine-tag-11005.json",
    "docker-local/docker-alpine-tag-11012.json",
    "docker-local/docker-alpine-tag-11014.json",
    "docker-local/docker-alpine-tag-11017.json",
    "docker-local/docker-alpine-tag-11026.json",
    "docker-local/docker-alpine-tag-11034.json",
    "docker-local/docker-alpine-tag-11038.json",
    "docker-local/docker-alpine-tag-11045.json",
    "docker-local/docker-alpine-tag-11999.json"
  ]
}
```

**Sample Response (packages):** Successful

```
{
  "response": "Restore process was initialized successfully.",
  "restore_operation_id": "retention_restore_package_AL8VPOK4EW"
}
```

# JFrog REST APIs Displayed in the header

**Sample Response (artifacts): Successful**

```
{  
    "response" : "Restore process was initialized successfully.",  
    "restore_operation_id" : "retention_restore_artifact_FVRU5YWVRU"  
}
```

## Note

Archive restore operations can be tracked using the Get Restore Process Status API. An error message is displayed in Artifactory if the restore operation fails.

### Status:

200: Success

## 2.6.17 | Get Archive Policy Status

**Description:** Returns the status of an archive policy based on the specified duration and policy key.

## Note

This Cold Storage feature is available only for Artifactory Enterprise and Enterprise+ users.

**Usage:** GET /api/retention/archive/executions

**Since:** Artifactory 7.27.3

**Security:** Requires an admin user

**Usage:** GET /api/retention/archive/executions?from=<number>&to=<number>&searchStr=<searchByPolicyKey>

**Produces:** application/json

**URL Parameters:**

Parameters	Type	Description	Required/Optional
from	string	The date range (in epoch format) for the archive status.	Optional
to	string		
searchStr	string	Get the status for a specific policy.	Optional

**Sample Request:**

```
GET /api/retention/archive/executions
```

**Sample Response:**

## Note

In the API response, the last execution is displayed on top.

```
[{  
    "state": "COMPLETE",  
    "completedNumberofArtifacts": 1,  
    "failedNumberofArtifacts": 0,  
    "totalNumberofArtifacts": 1,  
    "progressPercentage": 100,
```

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```
"startTime": 1623180000018,  
"finishTime": 1623780000425,  
"totalByteSize": 9811,  
"successByteSize": 9811,  
"failureByteSize": 0,  
,  
{  
    "state": "COMPLETE",  
    "completedNumberOfWorkflows": 10,  
    "failedNumberOfWorkflows": 0,  
    "totalNumberOfWorkflows": 10,  
    "progressPercentage": 100,  
    "startTime": 1623767238129,  
    "finishTime": 1623767238985,  
    "totalByteSize": 884964,  
    "successByteSize": 884964,  
    "failureByteSize": 0,  
,...]
```

The response displays the following information:

Property	Description
policyKey	Unique policy key that identifies the policy.
lastRunStatus	Shows the status of the last policy run. It can be one of the following: <ul style="list-style-type: none"><li>• <b>PENDING</b>: The policy has never been executed.</li><li>• <b>IN_PROGRESS</b>: The policy execution is in progress.</li><li>• <b>IN_PROGRESS_WITH_ERRORS</b>: The policy execution is in progress but encountered one or more errors.</li><li>• <b>COMPLETE</b>: The policy executed successfully without any errors.</li><li>• <b>COMPLETE_WITH_ERRORS</b>: The policy executed, but encountered one or more errors.</li><li>• <b>FAILED</b>: The policy execution failed.</li></ul>
totalNumberOfArtifacts	Total number of artifacts to be archived.  <b>Note</b>  This number is not calculated at the beginning of the archive process. However, based on the number of artifacts being archived, this number increments as the archive process progresses.
completedNumberOfArtifacts	Total number of artifacts that were archived.
failedNumberOfArtifacts	Total number of artifacts that could not be archived.
progressPercentage	The progress of the policy (in percentage).
startTime	Time when the policy started executing. Value is in Unix epoch time in milliseconds.

# JFrog REST APIs Displayed in the header

Property	Description
finishTime	Time when the policy finished executing. Value is in Unix epoch time in milliseconds.
totalByteSize	The total size of the artifacts included in the policy.
successByteSize	The size of the artifacts that were archived.
failureByteSize	The size of the artifacts that couldn't be archived.

## Status:

200: Success

## 2.6.18 | Get Restore Process Status

**Description:** Returns the status of the restore process based on the specified duration and policy key.

### Note

This Cold Storage feature is available only for Artifactory Enterprise and Enterprise+ users.

**Since:** Artifactory 7.27.3

**Security:** Requires an admin user

**Usage:** GET /api/retention/restore/executions?from=<number>&to=<number>

**Produces:** application/json

### URL Parameters:

Parameters	Type	Description	Required/Optional
from	string	The date range (in epoch format) for the restore status.	Optional
to	string		

### Sample Request:

```
GET /api/retention/restore/executions
```

### Sample Response:

### Note

In the API response, the last execution is displayed on top.

```
{  
  "state": "COMPLETE",  
  "completedNumberOfWorkflows": 1,  
  "failedNumberOfWorkflows": 0,  
  "totalNumberOfWorkflows": 1,
```

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```
"progressPercentage": 100,  
"startTime": 1623768273379,  
"finishTime": 1623768327866,  
"totalByteSize": 9811,  
"successByteSize": 9811,  
"failureByteSize": 0,  
"destination": "gen-2"  
}
```

The response displays the following information:

Property	Description
destinationConfiguration	<p>The destination from which the artifacts were restored. It can be one of the following:</p> <ul style="list-style-type: none"><li>• Original/Central</li><li>• Fallback Location</li></ul>
lastRunStatus	<p>Shows the status of the last policy run. It can be one of the following:</p> <ul style="list-style-type: none"><li>• <b>PENDING</b>: The policy has never been executed.</li><li>• <b>IN_PROGRESS</b>: The policy execution is in progress.</li><li>• <b>IN_PROGRESS_WITH_ERRORS</b>: The policy execution is in progress but encountered one or more errors.</li><li>• <b>COMPLETE</b>: The policy was executed successfully without any errors.</li><li>• <b>COMPLETE_WITH_ERRORS</b>: The policy executed, but encountered one or more errors.</li><li>• <b>FAILED</b>: The policy execution failed.</li></ul>
totalNumberOfArtifacts	Total number of artifacts to be archived.
completedNumberOfArtifacts	Total number of artifacts that were archived.
failedNumberOfArtifacts	Total number of artifacts that could not be archived.
progressPercentage	The progress of the policy (in percentage).
startTime	Time when the policy started executing. Value is in Unix epoch time in milliseconds.
finishTime	Time when the policy finished executing. Value is in Unix epoch time in milliseconds.
totalByteSize	The total size of the artifacts included in the policy.
successByteSize	The size of the artifacts that were archived.
failureByteSize	The size of the artifacts that couldn't be archived.

**Status:**

200: Success

## 2.7 | CLEANUP POLICIES

- CLEANUP POLICIES - PACKAGES APIs
- CLEANUP POLICIES - RELEASE BUNDLES V2 APIs
- CLEANUP POLICIES - COMMON APIs

### 2.7.1 | CLEANUP POLICIES - PACKAGES APIs

#### Abstract

The following APIs are used to configure and maintain JFrog cleanup policies for Packages.

#### Note

Packages Cleanup Policies APIs are supported on Artifactory version 7.98.2 and later.

- Create a Package Cleanup Policy API
- Enable/Disable a Package Cleanup Policy API
- Manually Run Package Cleanup Policy API
- Get all Package Cleanup Policies API
- Get Single Package Cleanup Policy by Key API
- Update a Package-Level Cleanup Policy API
- Delete Package Cleanup Policy API
- Download Package Cleanup Policy Run Report API
- Stop a Running Cleanup Policy API
- Stop All Running Cleanup Policies API
- Disable All Cleanup Policies API

#### 2.7.1.1 | Create a Package Cleanup Policy API

**Description:** This API is called to create a new package-level cleanup policy. For information on how to create a new cleanup policy via the UI, see Create Cleanup Policy - Package.

**Security:** Requires a platform admin. A project admin with permission can create a policy on the project level.

**Usage:** POST /artifactory/api/cleanup/packages/policies/{policyKey}

**Produces:** application/json

#### Sample Query

```
POST http://{host:port}/artifactory/api/cleanup/packages/policies/key1
{
  "key": "key1",                                // required
  "description": "some test description",
  "cronExp": "0 15 10 * * ? 2024",
  "durationInMinutes": 150,
  "enabled": false,
  "skipTrashcan": false,
  "projectKey": "pipe",                          // required if project policy
  "searchCriteria": {                           // required
    "packageTypes": [                         // required
      "docker",
      "maven",
      "npm"
    ]
  }
}
```

# JFrog REST APIs Displayed in the header

```
        "maven"  
    ],  
    "repos": [ // required  
        "repo1",  
        "repo2"  
    ],  
    "excludedRepos": [  
        "gradle-global"  
    ],  
    "includedPackages": [ // required  
        "com/jfrog"  
    ],  
    "excludedPackages": [  
        "com/jfrog/latest"  
    ],  
    "includeAllProjects": false,  
    "includedProjects": [],  
    "createdBeforeInMonths": 12,  
    "lastDownloadedBeforeInMonths": 1,  
    "keepLastNVersions": 0  
}  
}  
}
```

## Query Parameters:

Field	Type	Description
key	string	An ID that is used to identify the cleanup policy. A minimum of three characters is required and can include letters, numbers, underscore and hyphen.  <b>This parameter is mandatory.</b>
description	string	A description of the policy. This parameter is optional.
cronExp	integer	The cron expression that determines when the policy is run. This parameter is not mandatory, however if left empty the policy will not run automatically and can only be triggered manually.
durationInMinutes	integer	The maximum duration (in minutes) for policy execution, after which the policy will stop running even if not completed. While setting a maximum run duration for a policy is useful for adhering to a strict cleanup schedule, it can cause the policy to stop before completion.
enabled	string	A cleanup policy must be created inactive. This parameter is optional, but if used it must be set to FALSE. If set to TRUE when calling this API, the API call will fail and an error message is received.  <b>Note</b>  After a cleanup policy is created, it can be set to active by calling <a href="#">Enable/Disable a Package Cleanup Policy API</a> .

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Field	Type	Description
skipTrashcan	string	<p>A <b>true</b> value means that when this policy is executed, packages will be permanently deleted. <b>false</b> means that when the policy is executed packages will be deleted to the Trash Can.</p> <p><b>Note</b></p> <p>The Global Trash Can setting must be enabled if you want deleted items to be transferred to the Trash Can.</p>
projectKey	string	This key is obtained from the Project Settings screen. This parameter is used only for project-level cleanup policies, it is not used for global-level policies.
searchCriteria	See below	The criteria that define aspects of the policy such as package types (docker, maven), names of repositories in which the policy will run, and other relevant criteria. For more details see the table below.

## Search Criteria

Field	Type	Description
packageTypes	string	<p>The package types that are cleaned up by the policy. For a list of the permitted package types, <a href="#">click here</a>.</p> <p>You must enter at least one package type.</p>
repos	string	Specify one or more patterns for the repository name(s) on which you want the cleanup policy to run. You can also specify explicit repository names. Specifying at least one pattern or explicit name is <b>mandatory</b> . Only packages in repositories that match the pattern or explicit name will be deleted.
excludedRepos	string	Specify patterns for repository names or explicit repository names that you want excluded from the cleanup policy. This parameter is optional.
includedPackages	string	<p>Specify a pattern for a package name or an explicit package name on which you want the cleanup policy to run. Only one pattern or explicit name can be entered. To include all packages, use "***". For example: "includedPackages": ["***"]</p> <p>This parameter is <b>mandatory</b>.</p>
excludedPackages	string	Specify explicit package names that you want excluded from the policy. Only explicit names (and not patterns) are accepted. This parameter is optional.
includeAllProjects	boolean	Set this value to <b>true</b> if you want the policy to run on all Artifactory projects. The default value is <b>false</b> . This parameter is optional.
		<p><b>Note</b></p> <p>This parameter is relevant only on the global level, for Platform Admins.</p>

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Field	Type	Description
includedProjects	string	<p>Enter the project keys for the projects on which you want the policy to run. To include repositories that are not assigned to any project, enter the project key <b>default</b>.</p> <p><b>Note</b></p> <p>This parameter is relevant only on the global level, for Platform Admins.</p>
createdBeforeInMonths	integer	<p>The cleanup policy will delete packages based on how long ago they were created. For example, if this parameter is 2 then packages created more than 2 months ago will be deleted as part of the policy.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>A policy must use one of the three settings: <code>createdBeforeInMonths</code>, <code>lastDownloadedBeforeInMonths</code>, or <code>keepLastNVersions</code>.</li> <li><code>createdBeforeInMonths</code>, and <code>lastDownloadedBeforeInMonths</code> can be used together, but they cannot be used with <code>keepLastNVersions</code>. Meaning, use either <code>createdBeforeInMonths</code> and <code>lastDownloadedBeforeInMonths</code> (or just one of them), or use <code>keepLastNVersions</code>.</li> </ul>
lastDownloadedBeforeInMonths	integer	<p>The cleanup policy will delete packages based on how long ago they were downloaded. For example, if this parameter is 5 then packages downloaded more than 5 months ago will be deleted as part of the policy.</p> <p><b>Note</b></p> <p>JFrog recommends using <code>lastDownloadedBeforeInMonths</code> to ensure that packages currently in use are not deleted.</p>
keepLastNVersions	integer	<p>Set a value for the number of latest versions to keep. The cleanup policy will remove all versions prior to the number you select here. The latest version is always excluded.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>Versions are determined by creation date.</li> <li>Not all package types support this condition. If you include a package type in your policy that is not compatible with this condition, a validation error (400) is returned. For information on which package types support this condition, click <a href="#">here</a>.</li> </ul>

### Sample Response:

The contents of the response are identical to the query contents.

### Response Error Codes

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Code	Description
400	Validation errors.
409	A policy with the specified key already exists.
500	Internal server error.

### 2.7.1.2 | Enable/Disable a Package Cleanup Policy API

**Description:** This REST API is called to enable or disable a package cleanup policy. A policy must be enabled for it to run according to the automated schedule set in the cron expression or to trigger a run manually.

#### Note

A dry run can be performed on a policy that is disabled.

**Security:** Requires a platform admin. A project admin with permission can enable or disable a policy on the project level.

**Usage:** POST `http://{host:port}/artifactory/api/cleanup/packages/policies/{policyKey}/enablement`

**Produces:** application/json

#### Sample Query:

```
POST http://{host:port}/artifactory/api/cleanup/packages/policies/key1/enablement
{
  "enabled": true
}
```

#### Query Parameters:

Field	Type	Description
policyKey	string	The ID that identifies the policy. This ID was configured when creating the policy. You can find the policy ID by calling <a href="#">Get all Package Cleanup Policies API</a> , searching the results for the appropriate description and then its corresponding ID.
enabled	boolean	A <b>true</b> value means the policy can be executed. A <b>false</b> value means that it cannot.

#### Response Error Codes

Code	Description
400	Validation errors.
404	A policy with the specified key does not exist.

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Code	Description
500	Internal server error.

### 2.7.1.3 | Manually Run Package Cleanup Policy API

**Description:** This REST API is called to manually run a package cleanup policy. For information on how to manually run a cleanup policy from the UI, see [Run Cleanup Policy Manually](#).

**Security:** Requires a platform admin. A project admin with permission can manually run a policy on the project level.

**Produces:** application/json

**Usage:** PUT /artifactory/api/cleanup/packages/policies/{policyKey}/run?dryRun=<Boolean>

#### Query Parameters:

Field	Type	Description
policyKey	string	ID of the policy you want to run. This ID was configured when creating the policy. You can find the policy ID by running the <a href="#">Get all Package Cleanup Policies API</a> , searching through the results for the appropriate description, then its corresponding ID.
dryRun	boolean	Optional, default is FALSE. Dry runs are used to run a policy without actual cleanup. It produces a report used to determine which packages will be removed if an actual run will be performed.

#### Sample Query:

```
PUT /artifactory/api/cleanup/packages/policies/sample-policy/run
```

#### Sample Response:

```
201 Created
Content-Type: application/json
{
  "runId": 1 // Integer
}
```

The response includes the following information:

Property	Description
runId	An ID that identifies the run. This ID is used by the Stop a Running Cleanup Policy API if you want to stop running a cleanup policy that was executed.

#### Response Error Codes

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Code	Description
400	This code indicates one of the following errors: <ul style="list-style-type: none"><li>The policyKey was not provided.</li><li>The policy is set to clean to the Trash Can, but the Trash Can is disabled.</li><li>The policy is disabled.</li></ul>
404	The policy with the key <policyKey> was not found.

## 2.7.1.4 | Get all Package Cleanup Policies API

**Description:** This API is called to return a list of all the existing package cleanup policies for either a specific project or for the entire system.

**Security:** Requires a platform admin. A project admin with permission can call this API on the project level.

**Usage:** GET `http://{host:port}/artifactory/api/cleanup/packages/policies`

**Produces:** application/json

### Sample Query

```
GET http://{host:port}/artifactory/api/cleanup/packages/policies?projectKey=<optionally supply projectKey>
```

### Query Parameters:

Field	Type	Description
projectKey	string	<p>This parameter is used when calling this API to return all cleanup policies for a specific project. This parameter identifies the project of the policies you want to receive.</p> <p>This parameter is optional for a platform admin, but not using it will return all cleanup policies in Artifactory, both global policies and project-level policies.</p> <p>This parameter is <b>mandatory</b> for a project admin.</p>

### Sample Response:

```
[  
  {  
    "key": "key1",  
    "description": "some test description",  
    "cronExp": "0 15 10 * * ? 2024",  
    "durationInMinutes": 150,  
    "enabled": false,  
    "skipTrashcan": false,  
    "searchCriteria": {  
      "packageTypes": [  
        "docker",  
        "maven"  
      ],  
      "repos": [  
        "repo1",  
        "repo2"  
      ],  
    },  
  },  
]
```

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```
"excludedRepos": [],
"includedPackages": [
    "com/jfrog",
],
"excludedPackages": [
    "com/jfrog/latest",
],
"includeAllProjects": false,
"includedProjects": [
    "project1",
    "project2"
],
"createdBeforeInMonths": 12,
"lastDownloadedBeforeInMonths": 1,
"keepLastNVersions": 0
},
},
{
    "key": "key2",
    "description": "some test description 2",
    "durationInMinutes": 150,
    "enabled": false,
    "skipTrashcan": false,
    "searchCriteria": {
        "packageTypes": [
            "docker"
        ],
        "repos": [
            "repo1"
        ],
        "excludedRepos": [],
        "includedPackages": [
            "jfrog*"
        ],
        "excludedPackages": [],
        "includeAllProjects": false,
        "includedProjects": [
            "project1",
            "project2"
        ],
        "createdBeforeInMonths": 3,
        "lastDownloadedBeforeInMonths": 1,
        "keepLastNVersions": 0
    }
}
]
```

The response includes the following information:

Property	Description
key	The ID that identifies the policy. This ID was configured for the policy when it was created.
description	Description that was defined for the policy.
cronExp	The cron expression that determines when the policy is run.
durationInMinutes	The maximum duration (in minutes) for policy execution, after which the policy will stop running even if not completed. While setting a maximum run duration for a policy is useful for adhering to a strict cleanup schedule, it can cause the policy to stop before completion.

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Property	Description
enabled	A <b>true</b> value means the policy can be executed. A <b>false</b> value means that it cannot.
skipTrashcan	A <b>true</b> value means that when this policy is executed, packages will be permanently deleted. <b>false</b> means that when the policy is executed packages will be deleted to the Trash Can.
searchCriteria	The criteria that define aspects of the policy such as package types (docker, maven), names of repositories in which the policy will run, and other relevant criteria. For more details see the table below.

### Search Criteria

Field	Type	Description
packageTypes	string	The package types that are cleaned up by the policy. For a list of the permitted package types, <a href="#">click here</a> .
repos	string	Specify one or more patterns for the repository name(s) on which you want the cleanup policy to run. You can also specify explicit repository names. Specifying at least one pattern or explicit name is <b>mandatory</b> . Only packages in repositories that match the pattern or explicit name will be deleted.
excludedRepos	string	Specifies patterns for repository names or explicit repository names that you want excluded from the cleanup policy. This parameter is optional.
includedPackages	string	Specifies a pattern for a package name or an explicit package name on which you want the cleanup policy to run. Only one pattern or explicit name can be entered. To include all packages, use "***". For example: "includedPackages": ["***"]  This parameter is <b>mandatory</b> .
excludedPackages	string	Specifies explicit package names that you want excluded from the policy. Only explicit names (and not patterns) are accepted. This parameter is optional.
includeAllProjects	boolean	If <b>true</b> the policy will run on all Artifactory projects. The default value is <b>false</b> . This parameter is optional.  <b>Note</b>  This parameter is relevant only on the global level, for Platform Admins.
includedProjects	string	The name(s) of the project(s) on which the policy will run.  <b>Note</b>  This parameter is relevant only on the global level, for Platform Admins.

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Field	Type	Description
createdBeforeInMonths	integer	<p>The cleanup policy will delete packages based on how long ago they were created. For example, if this field is 2 then packages created more than 2 months ago will be deleted as part of the policy.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>A policy must use one of the three settings: <code>createdBeforeInMonths</code>, <code>lastDownloadedBeforeInMonths</code>, or <code>keepLastNVersions</code>.</li> <li><code>createdBeforeInMonths</code>, and <code>lastDownloadedBeforeInMonths</code> can be used together, but they cannot be used with <code>keepLastNVersions</code>. Meaning, use either <code>createdBeforeInMonths</code> and <code>lastDownloadedBeforeInMonths</code> (or just one of them), or use <code>keepLastNVersions</code>.</li> </ul>
lastDownloadedBeforeInMonths	integer	<p>The cleanup policy will delete packages based on how long ago they were downloaded. For example, if this field is 5 then packages dowloaded more than 5 months ago will be deleted as part of the policy.</p>
keepLastNVersions	integer	<p>The number of latest versions to keep. The cleanup policy will remove all versions prior to this number. The latest version is always excluded.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>Versions are determined by creation date.</li> <li>Not all package types support this condition. For information on which package types support this condition, click <a href="#">here</a>.</li> </ul>

## Response Error Codes

Code	Description
400	Validation errors.
500	Internal server error.

## 2.7.1.5 | Get Single Package Cleanup Policy by Key API

**Description:** This API is called to provide details on a single package cleanup policy.

**Security:** Requires a platform admin. A project admin with permission can call this API on the project level.

**Produces:** application/json

**Usage:** GET `http://{host:port}/artifactory/api/cleanup/packages/policies/{policyKey}`

**Query Parameters:**

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Field	Type	Description
policyKey	string	The ID that identifies the policy. This ID was configured when creating the policy. You can find the policy ID by calling Get all Package Cleanup Policies API, searching the results for the appropriate description and then its corresponding ID.

### Sample Query

```
GET http://{host:port}/artifactory/api/cleanup/packages/policies/key1
```

### Sample Response:

```
{
  "key": "key1",
  "description": "some test description",
  "cronExp": "0 15 10 * * ? 2024",
  "durationInMinutes": 150,
  "enabled": false,
  "skipTrashcan": false,
  "searchCriteria": {
    "packageTypes": [
      "docker",
      "maven"
    ],
    "repos": [
      "repo1",
      "repo2"
    ],
    "excludedRepos": [],
    "includedPackages": [
      "com/jfrog",
    ],
    "excludedPackages": [
      "com/jfrog/latest",
    ],
    "includeAllProjects": false,
    "includedProjects": [
      "project1",
      "project2"
    ],
    "createdBeforeInMonths": 12,
    "lastDownloadedBeforeInMonths": 1
    "keepLastNVersions": 0
  }
}
```

The response include the following information:

Property	Description
key	The ID that identifies the policy. This ID that was configured for the policy when it was created.
description	Description that was defined for the policy.
cronExp	The cron expression that determines when the policy is run. This parameter is not mandatory, however if left empty the policy will not run automatically and can only be triggered manually.

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Property	Description
durationInMinutes	The maximum duration (in minutes) for policy execution, after which the policy will stop running even if not completed.
enabled	A <b>true</b> value means the policy can be executed. A <b>false</b> value means that it cannot.
skipTrashcan	A <b>true</b> value means that when this policy is executed, packages will be permanently deleted. <b>false</b> means that when the policy is executed packages will be deleted to the Trash Can.
searchCriteria	The criteria that define aspects of the policy such as package types (docker, maven), repository names in which the policy will be run, and other relevant criteria. For more details see the table below.

### Search Criteria

Field	Type	Description
packageTypes	string	<p>The package types that are cleaned up by the policy. For a list of the permitted package types, click <a href="#">here</a>.</p> <p>You must enter at least one package type.</p>
repos	string	<p>Specify one or more patterns for the repository name(s) on which you want the cleanup policy to run. You can also specify explicit repository names. Specifying at least one pattern or explicit name is <b>mandatory</b>. Only packages in repositories that match the pattern or explicit name will be deleted.</p>
excludedRepos	string	<p>Specify patterns for repository names or explicit repository names that you want excluded from the cleanup policy. This parameter is optional.</p>
includedPackages	string	<p>Specify a pattern for a package name or an explicit package name on which you want the cleanup policy to run. Only one pattern or explicit name can be entered. To include all packages, use "***". For example: "includedPackages": ["***"]</p> <p>This parameter is <b>mandatory</b>.</p>
excludedPackages	string	<p>Specify explicit package names that you want excluded from the policy. Only explicit names (and not patterns) are accepted. This parameter is optional.</p>
includeAllProjects	boolean	<p>Set this value to <b>true</b> if you want the policy to run on all Artifactory projects. The default value is <b>false</b>. This parameter is optional.</p> <p><b>Note</b></p> <p>This parameter is relevant only on the global level, for Platform Admins.</p>

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Field	Type	Description
includedProjects	string	<p>Enter the project names on which you want the policy to run.</p> <p><b>Note</b></p> <p>This parameter is relevant only on the global level, for Platform Admins.</p>
createdBeforeInMonths	integer	<p>The cleanup policy will delete packages based on how long ago they were created. For example, if this parameter is 2 then packages created more than 2 months ago will be deleted as part of the policy.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>A policy must use one of the three settings: createdBeforeInMonths, lastDownloadedBeforeInMonths, or keepLastNVersions.</li> <li>createdBeforeInMonths, and lastDownloadedBeforeInMonths can be used together, but they cannot be used with keepLastNVersions. Meaning, use either createdBeforeInMonths and lastDownloadedBeforeInMonths (or just one of them), or use keepLastNVersions.</li> </ul>
lastDownloadedBeforeInMonths	integer	<p>The cleanup policy will delete packages based on how long ago they were downloaded. For example, if this parameter is 5 then packages downloaded more than 5 months ago will be deleted as part of the policy.</p> <p><b>Note</b></p> <p>JFrog recommends using lastDownloadedBeforeInMonths to ensure that packages currently in use are not deleted.</p>
keepLastNVersions	integer	<p>Set a value for the number of latest versions to keep. The cleanup policy will remove all versions prior to the number you select here. The latest version is always excluded.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>Versions are determined by creation date.</li> <li>Not all package types support this condition. For information on which package types support this condition, click <a href="#">here</a>.</li> </ul>

### Response Error Codes

Code	Description
400	Validation errors.
500	Internal server error.

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### 2.7.1.6 | Update a Package-Level Cleanup Policy API

**Description:** This REST API is called to update configuration settings for an existing package-level cleanup policy.

#### Note

A policy cannot be updated if it is currently running. If you want to update a policy that is running, you need to either wait for the policy to complete, or manually stop the run by calling Stop a Running Cleanup Policy API.

**Security:** Requires a platform admin. A project admin with permission can call this API on the project level.

**Usage:** PUT `http://{host:port}/artifactory/api/cleanup/packages/policies/{policyKey}`

**Produces:** application/json

#### Sample Query:

```
PUT http://{host:port}/artifactory/api/cleanup/packages/policies/key1
{
  "key": "key1",                                // required
  "description": "updated description",
  "cronExp": "0 15 10 * * ? 2024",
  "durationInMinutes": 150,
  "enabled": false,                             // change only with enable/disable API
  "skipTrashcan": false,
  "searchCriteria": {                          // required
    "packageTypes": [                         // required
      "docker",
      "maven"
    ],
    "repos": [                               // required
      "repo1",
      "repo2"
    ],
    "excludedRepos": [],
    "includedPackages": [                   // required
      "com/jfrog"
    ],
    "excludedPackages": [                  // required
      "com/jfrog/latest"
    ],
    "includeAllProjects": false,
    "includedProjects": [],
    "createdBeforeInMonths": 12,
    "lastDownloadedBeforeInMonths": 1,
    "keepLastNVersions": 0
  }
}
```

#### Query Parameters:

Field	Type	Description
key	string	The ID that identifies the policy. This ID was configured when creating the policy. You can find the policy ID by calling <a href="#">Get all Package Cleanup Policies API</a> , searching the results for the appropriate description and then its corresponding ID.
description	string	Description that was defined for the policy.
cronExp	integer	The cron expression that determines when the policy is run.

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Field	Type	Description
durationInMinutes	integer	The maximum duration (in minutes) for policy execution, after which the policy will stop running even if not completed. While setting a maximum run duration for a policy is useful for adhering to a strict cleanup schedule, it can cause the policy to stop before completion.
enabled	string	A <b>true</b> value means the policy can be executed. A <b>false</b> value means that it cannot.  <b>Note</b>  This API should not be used to enable or disable a policy. To enable or disable a policy, call <a href="#">Enable/Disable a Package Cleanup Policy API</a> .
skipTrashcan	string	A <b>true</b> value means that when this policy is executed, packages will be permanently deleted. <b>false</b> means that when the policy is executed packages will be deleted to the Trash Can.
searchCriteria	See below	The criteria that define aspects of the policy such as package types (docker, maven), names of repositories in which the policy will run, and other relevant criteria. For more details see the table below.

### Search Criteria:

Field	Type	Description
packageTypes	string	The package types that are cleaned up by the policy. For a list of the permitted package types, <a href="#">click here</a> .  You must enter at least one package type.
repos	string	Specify one or more patterns for the repository name(s) on which you want the cleanup policy to run. You can also specify explicit repository names. Specifying at least one pattern or explicit name is <b>mandatory</b> . Only packages in repositories that match the pattern or explicit name will be deleted.
excludedRepos	string	Specify patterns for repository names or explicit repository names that you want excluded from the cleanup policy. This parameter is optional.
includedPackages	string	Specify a pattern for a package name or an explicit package name on which you want the cleanup policy to run. Only one pattern or explicit name can be entered. To include all packages, use "***". For example: "includedPackages": ["***"]  This parameter is <b>mandatory</b> .
excludedPackages	string	Specify explicit package names that you want excluded from the policy. Only explicit names (and not patterns) are accepted. This parameter is optional.
includeAllProjects	boolean	Set this value to <b>true</b> if you want the policy to run on all Artifactory projects. The default value is <b>false</b> . This parameter is optional.

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Field	Type	Description
		<p><b>Note</b></p> <p>This parameter is relevant only on the global level, for Platform Admins.</p>
includedProjects	string	<p>Enter the project keys for the projects on which you want the policy to run. To include repositories that are not assigned to any project, enter the project key <b>default</b>.</p> <p><b>Note</b></p> <p>This parameter is relevant only on the global level, for Platform Admins.</p>
createdBeforeInMonths	integer	<p>The cleanup policy will delete packages based on how long ago they were created. For example, if this parameter is 2 then packages created more than 2 months ago will be deleted as part of the policy.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>A policy must use one of the three settings: <code>createdBeforeInMonths</code>, <code>lastDownloadedBeforeInMonths</code>, or <code>keepLastNVersions</code>.</li> <li><code>createdBeforeInMonths</code>, and <code>lastDownloadedBeforeInMonths</code> can be used together, but they cannot be used with <code>keepLastNVersions</code>. Meaning, use either <code>createdBeforeInMonths</code> and <code>lastDownloadedBeforeInMonths</code> (or just one of them), or use <code>keepLastNVersions</code>.</li> </ul>
lastDownloadedBeforeInMonths	integer	<p>The cleanup policy will delete packages based on how long ago they were downloaded. For example, if this parameter is 5 then packages downloaded more than 5 months ago will be deleted as part of the policy.</p> <p><b>Note</b></p> <p>JFrog recommends using <code>lastDownloadedBeforeInMonths</code> to ensure that packages currently in use are not deleted.</p>
keepLastNVersions	integer	<p>Set a value for the number of latest versions to keep. The cleanup policy will remove all versions prior to the number you select here. The latest version is always excluded.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>Versions are determined by creation date.</li> <li>Not all package types support this condition. If you include a package type in your policy that is not compatible with this condition, a validation error (400) is returned. For information on which package types support this condition, click <a href="#">here</a>.</li> </ul>

### Sample Response:

```
{
  "key": "key1",
  "description": "updated description",
  "cronExp": "0 15 10 * * ? 2024",
  "durationInMinutes": 150,
```

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```
"enabled": false,  
"skipTrashcan": false,  
"searchCriteria": {  
    "packageTypes": [  
        "docker",  
        "maven"  
    ],  
    "repos": [  
        "repo1",  
        "repo2"  
    ],  
    "excludedRepos": [],  
    "includedPackages": [  
        "com/jfrog",  
    ],  
    "excludedPackages": [  
        "com/jfrog/latest",  
    ],  
    "includeAllProjects": false,  
    "includedProjects": [  
        "project1",  
        "project2"  
    ],  
    "createdBeforeInMonths": 12,  
    "lastDownloadedBeforeInMonths": 1,  
    "keepLastNVersions": 0  
}  
}
```

### Response Error Codes

Code	Description
400	Validation errors.
404	A policy with the specified key does not exist.
500	Internal server error.

### 2.7.1.7 | Delete Package Cleanup Policy API

**Description:** Deletes a cleanup policy. For information on deleting a cleanup policy via the UI, see Delete a Cleanup Policy.

#### Note

A policy cannot be deleted if it is currently running. If you want to delete a policy that is running, you need to either wait for the policy to stop running, or manually stop the run by calling Stop a Running Cleanup Policy API.

**Security:** Requires a platform admin. A project admin with permission can call this API on the project level.

**Usage:** `DELETE /artifactory/api/cleanup/packages/policies/{policyKey}`

#### Query Parameters

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Field]	Type	Description
policyKey	string	The ID that identifies the policy. This ID was configured when creating the policy. You can find the policy ID by calling Get all Package Cleanup Policies API, searching the results for the appropriate description and then its corresponding ID.

### Response Error Codes

Code	Description
400	Validation errors.
404	A policy with the specified key does not exist.
500	Internal server error.

### 2.7.1.8 | Download Package Cleanup Policy Run Report API

**Description:** This REST API is called to download a CSV report on a cleanup policy run. Platform admins can download run reports for both global cleanup policies and project-specific cleanup policies. This API checks that the username is the project admin for the **policyKey** received and therefore project admins can download run reports for cleanup policies related to the projects they manage.

**Security:** Requires a platform admin. A project admin with permission can call this API on the project level.

**Usage:** GET `http://{host:port}/artifactory/api/cleanup/policies/runs/downloadReport?policyKey={policyKey}&runId={runId}`

**Produces:** application/octet-stream

**Sample Query:**

```
GET /api/cleanup/policies/runs/downloadReport?policyKey=example-policy&runId=1
```

**Query Parameters:**

Field	Type	Description
policyKey	string	<p>The ID that identifies the policy. This ID was configured when creating the policy. You can find the policy ID by calling Get all Package Cleanup Policies API, searching the results for the appropriate description and then its corresponding ID.</p> <p>This parameter is <b>mandatory</b>.</p>
runId	integer	<p>An ID that identifies the run. You can get this ID in the Retention Policies Monitoring screen, as explained in View Results of Policy Runs.</p> <p>This parameter is <b>mandatory</b>.</p>

**Sample Response:**

<binary content of the zip file>

#### Response Codes

Code	Description
200	The request was successful and the response body contains the binary data of the report.
400	One or both of the request parameters are invalid.
403	The user does not have permission to access the report.
404	No report is found for the given policyKey and/or runId.
500	Internal server error.

### 2.7.2 | CLEANUP POLICIES - RELEASE BUNDLES V2 APIs

The following APIs are used to configure and maintain JFrog cleanup policies for Release Bundles V2.

#### Note

Release Bundles V2 Cleanup Policies APIs are supported on Artifactory version 7.104.2 and later.

- Create a Release Bundle Cleanup Policy API
- Manually Run Release Bundle Cleanup Policy API
- Enable/Disable Release Bundle Cleanup Policy API
- Get All Release Bundle Cleanup Policies API
- Get Single Release Bundle Cleanup Policy by Key API
- Get All Release Bundle Cleanup Policies Runs API
- Get Release Bundle Cleanup Policies View API
- Update Release Bundle Cleanup Policy API
- Stop a Running Cleanup Policy API
- Delete Release Bundle Cleanup Policy API
- Disable All Cleanup Policies API

#### 2.7.2.1 | Create a Release Bundle Cleanup Policy API

**Description:** This API is called to create a new release bundle cleanup policy. For information on how to create a new cleanup policy via the UI, see Create Cleanup Policy - Release Bundle V2.

**Security:** Requires a platform admin. A project admin with permission can create a policy on the project level.

**Usage:** POST /artifactory/api/cleanup/bundles/policies/{policyKey}

**Produces:** application/json

**Sample Query**

## JFrog REST APIs Displayed in the header

```
POST http://{host:port}/artifactory/api/cleanup/bundles/policies/key1
{
  "key": "key1", //required
  "description": "",
  "cronExp": "0 0 2 * * ?",
  "itemType": "releaseBundle", //required
  "durationInMinutes": 60,
  "enabled": false,
  "searchCriteria": {
    "includeAllProjects": true,
    "includedProjects": [], //required
    "releaseBundles": [
      {
        "name": "**",
        "projectKey": ""
      }
    ], //required
    "excludePromotedEnvironments": [
      "**"
    ], //required
    "createdBeforeInMonths": 24 //required
  }
}
```

### Parameters:

Parameter	Type	Required	Description
key	String	Yes	A unique identifier for the cleanup policy (for example, "key1"). This is a required field and must be unique.  <b>Note</b>  A minimum of three characters is required, including letters, numbers, underscore and hyphen.
description	String	No	A brief description of the cleanup policy (optional).
cronExp	String	Yes	A cron expression specifying when the cleanup job will run (for example, 0 0 2 * * ?).  <b>Note</b>  This parameter is not mandatory, however if left empty the policy will not run automatically and can only be triggered manually.
itemType	String	Yes	The type of items to clean up (releaseBundle). This field is required.
durationInMinutes	Integer	No	The maximum duration (in minutes) for policy execution, after which the policy will stop running even if not completed. While setting a maximum run duration for a policy is useful for adhering to a strict cleanup schedule, it can cause the policy to stop before completion (for example, 60).
enabled	Boolean	No	Indicates if the cleanup policy is active (true) or disabled (false).

# JFrog REST APIs Displayed in the header

Parameter	Type	Required	Description
			<p>A cleanup policy must be created inactive. This parameter is optional, but if used it must be set to false. If set to true when calling this API, the API call will fail and an error message is received.</p> <p><b>Note</b></p> <p>After a cleanup policy is created, it can be set to active by calling <a href="#">Enable/Disable Release Bundle Cleanup Policy API</a>.</p>
searchCriteria	Object	Yes	An object containing search criteria for the cleanup job.
includeAllProjects	Boolean	Yes	Specifies whether to include all projects in the search (true to include).
includedProjects	Array of Strings	Yes	A list of specific project keys to include in the search ()�.
releaseBundles	Array of Objects	Yes	An array specifying the release bundles to consider during cleanup.
name	String	Yes	The name of the release bundle. Set "***" to include all bundles.
projectKey	String	Yes	The project identifier associated with the release bundle. This key is obtained from the Project Settings screen. Leave the field blank to apply at a global level.
excludePromotedEnvironments	Array of Strings	Yes	A list of environments to exclude from the cleanup process. To exclude all, set to **.
createdBeforeInMonths	Integer	Yes	Specifies the time frame for filtering based on item creation date (for example, 24 months).

## Sample Response:

The contents of the response are identical to the Request.

## Response Error Codes

Code	Description
400	Validation errors.
409	A policy with the specified key already exists.

## JFrog REST APIs Displayed in the header

Code	Description
500	Internal server error.

### 2.7.2.2 | Enable/Disable Release Bundle Cleanup Policy API

**Description:** This REST API is called to enable or disable a cleanup policy. A policy must be enabled for it to run according to the automated schedule set in the cron expression or to trigger a run manually.

#### Note

A dry run can be performed on a policy that is disabled.

**Security:** Requires a platform admin. A project admin with permission can enable or disable a policy on the project level.

**Usage:** POST `http://{host:port}/artifactory/api/cleanup/bundles/policies/{policyKey}/enablement`

**Produces:** application/json

#### Sample Query:

```
POST http://{host:port}/artifactory/api/cleanup/bundles/policies/key1/enablement
{
  "enabled": true
}
```

#### Query Parameters:

Field	Type	Description
policyKey	string	The ID that identifies the policy. This ID was configured when creating the policy. You can find the policy ID by calling <a href="#">Get All Release Bundle Cleanup Policies API</a> , searching the results for the appropriate description and then its corresponding ID.
enabled	boolean	A <b>true</b> value means the policy can be executed. A <b>false</b> value means that it cannot.

#### Response Error Codes

Code	Description
400	Validation errors.
404	A policy with the specified key does not exist.
500	Internal server error.

## JFrog REST APIs Displayed in the header

### 2.7.2.3 | Manually Run Release Bundle Cleanup Policy API

**Description:** This REST API is called to manually run a release bundle cleanup policy. For information on how to manually run a cleanup policy from the UI, see [Run Cleanup Policy Manually](#).

**Security:** Requires a platform admin. A project admin with permission can manually run a policy on the project level.

**Produces:** application/json

**Usage:** PUT /artifactory/api/cleanup/bundles/policies/{policyKey}/run?dryRun=<Boolean>

#### Query Parameters:

Field	Type	Description
policyKey	string	ID of the policy you want to run. This ID was configured when creating the policy. You can find the policy ID by running the <a href="#">Get All Release Bundle Cleanup Policies API</a> , searching through the results for the appropriate description, then its corresponding ID.
dryRun	boolean	Optional, default is FALSE. Dry runs are used to run a policy without actual cleanup. It produces a report used to determine which packages will be removed if an actual run will be performed.

#### Sample Query:

```
PUT /artifactory/api/cleanup/bundles/policies/sample-policy/run
```

#### Sample Response:

```
201 Created
Content-Type: application/json
{
  "runId": 1 // Integer
}
```

The response includes the following information:

Property	Description
runId	An ID that identifies the run. This ID is used by the <a href="#">Stop a Running Cleanup Policy API</a> if you want to stop running a cleanup policy that was executed.

#### Response Error Codes

Code	Description
400	This code indicates one of the following errors: <ul style="list-style-type: none"><li>The policyKey was not provided.</li><li>The policy is disabled.</li></ul>
404	The policy with the key <policyKey> was not found.

## JFrog REST APIs Displayed in the header

### 2.7.2.4 | Get All Release Bundle Cleanup Policies API

**Description:** This API is called to return a list of all the existing release bundle cleanup policies for either a specific project or for the entire system.

**Security:** Requires a platform admin. A project admin with permission can call this API on the project level.

**Usage:** GET `http://{host:port}/artifactory/api/cleanup/bundles/policies/`

**Produces:** application/json

#### Sample Query

```
GET http://{host:port}/artifactory/api/cleanup/bundles/policies/?projectKey=<optionally supply projectKey>
```

#### Query Parameters:

Field	Type	Description
projectKey	string	<p>This parameter is used when calling this API to return all cleanup policies for a specific project. This parameter identifies the project of the policies you want to receive.</p> <p>This parameter is optional for a platform admin, but not using it will return all cleanup policies in Artifactory, both global policies and project-level policies.</p> <p>This parameter is <b>mandatory</b> for a project admin.</p>

#### Sample Response:

```
{
  "policies" : [ {
    "itemType" : "releaseBundle",
    "policyKey" : "key2",
    "nextRunTime" : 1736849700000,
    "enabled" : false,
    "displayProject" : "Global",
    "includedProjects" : [ "All" ]
  }, {
    "itemType" : "releaseBundle",
    "policyKey" : "test",
    "enabled" : true,
    "displayProject" : "Global",
    "lastRunData" : {
      "status" : "COMPLETED",
      "lastRunTime" : 1736760175046,
      "dryRun" : false,
      "runId" : 2,
      "reportDownloaded" : true,
      "totalItems" : 0
    },
    "includedProjects" : [ "Unassigned Repos" ]
  }, {
    "itemType" : "releaseBundle",
    "policyKey" : "key1",
    "nextRunTime" : 1736849700000,
    "enabled" : true,
    "displayProject" : "Global",
    "includedProjects" : [ "All" ]
  } ]
}
```

The response includes the following information:

# JFrog REST APIs Displayed in the header

Property	Type	Description
policies	Array of Objects	An array containing multiple policy objects, each representing a cleanup policy.
itemType	String	The type of item the policy applies to releaseBundle.
policyKey	String	A unique identifier for the policy (for example, "key2", "test", "key1").
nextRunTime	Long (Timestamp)	The timestamp (in milliseconds since epoch) represents the next scheduled execution time for the policy.
enabled	Boolean	Indicates whether the policy is currently active (true) or disabled (false).
displayProject	String	The project name displayed to users; typically indicates the scope (for example, "Global").
includedProjects	Array of Strings	A list of project keys included in the policy (for example, ["All"], ["Unassigned Repos"]).
lastRunData	Object	An object representing the last execution details for the policy (available only for policies that have been run).
status	String	The status of the last run (for example, "COMPLETED", "FAILED").
lastRunTime	Long (Timestamp)	The timestamp (milliseconds since epoch) represents the last run.
dryRun	Boolean	Indicates whether the last execution was a dry run (true) or an actual execution (false).
runId	Integer	A unique identifier for the last run instance, useful for tracking and logging purposes.
reportDownloaded	Boolean	Indicates if the report of the last run was downloaded (true) or not (false).
totalItems	Integer	The total number of items processed during the last run.

## Response Error Codes

Code	Description
400	Validation errors.

Code	Description
500	Internal server error.

#### 2.7.2.5 | Get Single Release Bundle Cleanup Policy by Key API

**Description:** This API is called to provide details on a single release bundle cleanup policy.

**Security:** Requires a platform admin. A project admin with permission can call this API on the project level.

**Produces:** application/json

**Usage:** GET `http://{host:port}/artifactory/api/cleanup/bundles/policies/{policyKey}`

**Query Parameters:**

Field	Type	Description
policyKey	string	The ID that identifies the policy. This ID was configured when creating the policy. You can find the policy ID by calling <a href="#">Get All Release Bundle Cleanup Policies API</a> , searching the results for the appropriate description and then its corresponding ID.

#### Sample Query

```
GET http://{host:port}/artifactory/api/cleanup/bundles/policies/key1
```

#### Sample Response:

```
{
  "key": "key1",
  "description": "some test description",
  "cronExp": "0 15 10 * * ? 2025",
  "itemType": "releaseBundle",
  "durationInMinutes": 150,
  "enabled": true,
  "searchCriteria": {
    "includeAllProjects": true,
    "includedProjects": [],
    "releaseBundles": [
      {
        "name": "myReleaseBundle",
        "projectKey": "default"
      }
    ],
    "excludePromotedEnvironments": [
      "***"
    ],
    "createdBeforeInMonths": 24
  }
}
```

The response include the following information:

# JFrog REST APIs

## Displayed in the header

Parameter	Type	Description
key	String	A unique identifier for the cleanup policy (for example, "key1").
description	String	A brief description of the cleanup policy
cronExp	String	A cron expression specifying when the cleanup job will run (for example, 0 0 2 * * ?).
itemType	String	The type of items to clean up (releaseBundle).
durationInMinutes	Integer	The maximum duration (in minutes) for policy execution, after which the policy will stop running even if not completed. While setting a maximum run duration for a policy is useful for adhering to a strict cleanup schedule, it can cause the policy to stop before completion (for example, 60).
enabled	Boolean	<p>Indicates if the cleanup policy is active (true) or disabled (false).</p> <p>A cleanup policy must be created inactive. This parameter is optional, but if used it must be set to false. If set to true when calling this API, the API call will fail and an error message is received.</p> <p><b>Note</b></p> <p>After a cleanup policy is created, it can be set to active by calling <a href="#">Enable/Disable Release Bundle Cleanup Policy API</a>.</p>
searchCriteria	Object	An object containing search criteria for the cleanup job.
includeAllProjects	Boolean	Specifies whether to include all projects in the search (true to include).
includedProjects	Array of Strings	A list of specific project keys to include in the search ( ).
releaseBundles	Array of Objects	An array specifying the release bundles to consider during cleanup.
name	String	The name of the release bundle. Set "****" to include all bundles.
projectKey	String	The project identifier associated with the release bundle. This key is obtained from the Project Settings screen. This parameter is used only for project-level cleanup policies, it is not used for global-level policies.
excludePromotedEnvironments	Array of Strings	A list of environments to exclude from the cleanup process. To exclude all, set to **.

## JFrog REST APIs Displayed in the header

Parameter	Type	Description
createdBeforeInMonths	Integer	Specifies the time frame for filtering based on item creation date (for example, 24 months).

### Response Error Codes

Code	Description
400	Validation errors.
500	Internal server error.

### 2.7.2.6 | Update Release Bundle Cleanup Policy API

**Description:** This REST API is called to update configuration settings for an existing release bundle cleanup policy.

#### Note

A policy cannot be updated if it is currently running. If you want to update a policy that is running, you need to either wait for the policy to complete, or manually stop the run by calling [Stop a Running Cleanup Policy API](#).

**Security:** Requires a platform admin. A project admin with permission can call this API on the project level.

**Usage:** `PUT http://{host:port}/artifactory/api/cleanup/bundles/policies/{policyKey}`

**Produces:** application/json

#### Sample Request:

```
{  
  "key": "key1", //required  
  "description": "",  
  "cronExp": "0 0 2 * * ?",  
  "itemType": "releaseBundle", //required  
  "durationInMinutes": 60,  
  "enabled": false,  
  "searchCriteria": {  
    "includeAllProjects": true,  
    "includedProjects": [], //required  
    "releaseBundles": [  
      {  
        "name": "***",  
        "projectKey": ""  
      }  
    ], //required  
    "excludePromotedEnvironments": [  
      "***"  
    ], //required  
    "createdBeforeInMonths": 24 //required  
  }  
}
```

# JFrog REST APIs

## Displayed in the header

Parameter	Type	Required	Description
key	String	Yes	<p>A unique identifier for the cleanup policy (for example, "key1"). This is a required field and must be unique.</p> <p><b>Note</b></p> <p>A minimum of three characters is required, including letters, numbers, underscore and hyphen.</p>
description	String	No	A brief description of the cleanup policy (optional).
cronExp	String	Yes	<p>A cron expression specifying when the cleanup job will run (for example, 0 0 2 * * ?).</p> <p><b>Note</b></p> <p>This parameter is not mandatory, however if left empty the policy will not run automatically and can only be triggered manually.</p>
itemType	String	Yes	The type of items to clean up (releaseBundle). This field is required.
durationInMinutes	Integer	No	The maximum duration (in minutes) for policy execution, after which the policy will stop running even if not completed. While setting a maximum run duration for a policy is useful for adhering to a strict cleanup schedule, it can cause the policy to stop before completion (for example, 60).
enabled	Boolean	No	<p>Indicates if the cleanup policy is active (true) or disabled (false).</p> <p>A cleanup policy must be created inactive. This parameter is optional, but if used it must be set to false. If set to true when calling this API, the API call will fail and an error message is received.</p> <p><b>Note</b></p> <p>After a cleanup policy is created, it can be set to active by calling <a href="#">Enable/Disable Release Bundle Cleanup Policy API</a>.</p>
searchCriteria	Object	Yes	An object containing search criteria for the cleanup job.
includeAllProjects	Boolean	Yes	Specifies whether to include all projects in the search (true to include).
includedProjects	Array of Strings	Yes	A list of specific project keys to include in the search ( ).

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Parameter	Type	Required	Description
releaseBundles	Array of Objects	Yes	An array specifying the release bundles to consider during cleanup.
name	String	Yes	The name of the release bundle. Set "*" to include all bundles.
projectKey	String	Yes	The project identifier associated with the release bundle. This key is obtained from the Project Settings screen. Leave the field blank to apply at a global level.
excludePromotedEnvironments	Array of Strings	Yes	A list of environments to exclude from the cleanup process. To exclude all, set to **.
createdBeforeInMonths	Integer	Yes	Specifies the time frame for filtering based on item creation date (for example, 24 months).

### Sample Response:

The contents of the response are identical to the Request.

### Response Error Codes

Code	Description
400	Validation errors.
404	A policy with the specified key does not exist.
500	Internal server error.

### 2.7.2.7 | Delete Release Bundle Cleanup Policy API

**Description:** Deletes a cleanup policy. For information on deleting a cleanup policy via the UI, see [Delete Cleanup Policy](#).

#### Note

A policy cannot be deleted if it is currently running. If you want to delete a policy that is running, you need to either wait for the policy to stop running, or manually stop the run by calling [Stop a Running Cleanup Policy API](#).

**Security:** Requires a platform admin. A project admin with permission can call this API on the project level.

**Usage:** `DELETE /artifactory/api/cleanup/bundles/policies/{policyKey}`

#### Query Parameters

## JFrog REST APIs Displayed in the header

Field]	Type	Description
policyKey	string	The ID that identifies the policy. This ID was configured when creating the policy. You can find the policy ID by calling <a href="#">Get All Release Bundle Cleanup Policies API</a> , searching the results for the appropriate description and then its corresponding ID.

### Response Error Codes

Code	Description
400	Validation errors.
404	A policy with the specified key does not exist.
500	Internal server error.

### 2.7.2.8 | Download Release Bundle Cleanup Policy Run Report API

**Description:** This REST API is called to download a CSV report on a cleanup policy run. Platform admins can download run reports for both global cleanup policies and project-specific cleanup policies. This API checks that the username is the project admin for the **policyKey** received and therefore project admins can download run reports for cleanup policies related to the projects they manage.

**Security:** Requires a platform admin. A project admin with permission can call this API on the project level.

**Usage:** GET `http://{host:port}/artifactory/api/cleanup/policies/runs/downloadReport?policyKey={policyKey}&runId={runId}`

**Produces:** application/octet-stream

**Sample Query:**

```
GET /api/cleanup/policies/runs/downloadReport?policyKey=example-policy&runId=1
```

**Query Parameters:**

Field	Type	Description
policyKey	string	<p>The ID that identifies the policy. This ID was configured when creating the policy. You can find the policy ID by calling <a href="#">Get All Release Bundle Cleanup Policies API</a>, searching the results for the appropriate description and then its corresponding ID.</p> <p>This parameter is <b>mandatory</b>.</p>
runId	integer	<p>An ID that identifies the run. You can get this ID in the Retention Policies Monitoring screen, as explained in <a href="#">View All Cleanup Runs</a>.</p> <p>This parameter is <b>mandatory</b>.</p>

**Sample Response:**

# JFrog REST APIs Displayed in the header

<binary content of the zip file>

## Response Codes

Code	Description
200	The request was successful and the response body contains the binary data of the report.
400	One or both of the request parameters are invalid.
403	The user does not have permission to access the report.
404	No report is found for the given policyKey and/or runId.
500	Internal server error.

## 2.7.3 | CLEANUP POLICIES - COMMON APIs

The following APIs are common for Packages and Release Bundles V2.

- Stop a Running Cleanup Policy API
- Stop All Running Cleanup Policies API
- Disable All Cleanup Policies API

### 2.7.3.1 | Stop a Running Cleanup Policy API

**Description:** This REST API is called to stop a cleanup policy that is currently running. Once a policy has been stopped, it cannot be resumed from the point where it stopped.

**Security:** Requires a platform admin. A project admin with permission can call this API on the project level.

**Produces:** application/json

**Usage:** PUT /artifactory/api/cleanup/policies/runs/{runId}

{"action": <action>}

**Query Parameters:**

Field	Type	Description
runId	string	An ID that identifies the run. This ID is received when calling the <a href="#">Manually Run Release Bundle Cleanup Policy API</a> and <a href="#">Manually Run Package Cleanup Policy API</a> .
action	string	Use the stop action in to stop the policy run.

**Sample Query:**

The example below shows a request to stop the run with runId = 1.

## JFrog REST APIs Displayed in the header

```
PUT /artifactory/api/cleanup/policies/runs/1 {"action": "stop"}
```

### Sample Responses:

202 ACCEPTED "Action: 'stop' on task ID: '1' performed successfully"

### Response Error Codes

Code	Description
400	Validation errors.
404	No cleanup policy with run ID: runId was found

### 2.7.3.2 | Stop All Running Cleanup Policies API

**Description:** This API is called to stop all running cleanup policies on the global level.

**Security:** Requires a platform admin.

**Usage:**PUT http://{host:port}/artifactory/api/cleanup/policies/runs/forceStopAll

### Note

This API stops both packages and release bundles running policies.

### Response Codes

Code	Description
202	The request was successful.
400	Failed to stop the following policies: '<failed To Stop PolicyKeys>'.

### 2.7.3.3 | Disable All Cleanup Policies API

**Description:** This API is called to disable all cleanup policies on the global level.

**Security:** Requires a platform admin.

**Usage:**PUT http://{host:port}/artifactory/api/cleanup/policies/forceDisableAll

### Note

This API disables both packages and release bundles policies.

### Response Codes

Code	Description
200	The request was successful.
400	Bad request.
500	Internal Server Error

## 2.8 | SEARCHES

### Note

All searches return limited results for internal and anonymous users (same limits as in the user interface).

To modify the default limit results, edit the artifactory.system.properties file with  
**artifactory.search.limitAnonymousUsersOnly=false** (default is **true**) and add a new limit with  
**artifactory.search.userQueryLimit** (default is **1000**).

Applicable to the following REST API calls:

Artifact Search, Archive Entries Search, GAVC Search, Property Search, Checksum Search (limited by UI max results), Artifacts Not Downloaded Since, Artifacts With Date in Date Range, Artifacts Created in Date Range.

### 2.8.1 | Artifactory Query Language (AQL)

**Description:** Flexible and high performance search using Artifactory Query Language.

**Since:** 3.5.0

**Security:** Requires an authenticated user. Certain domains/queries may require Admin access.

**Usage:** POST /api/search/aql

**Consumes:** text/plain

### Note

For information on limiting the maximum number of AQL search results, click [here](#).

#### Sample Usage:

```
POST /api/search/aql
items.find(
{
    "repo": {"$eq": "libs-release-local"}
})
```

**Produces:** application/json

#### Sample Output:

```
{
  "results" : [
    {
      "repo" : "libs-release-local",
      "path" : "org/jfrog/artifactory",
      "name" : "artifactory.war",
      "type" : "item type",
      "size" : "75500000",
      "created" : "2015-01-01T10:10:10",
```

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```
"created_by" : "Jfrog",
"modified" : "2015-01-01T10:10:10",
"modified_by" : "Jfrog",
"updated" : "2015-01-01T10:10:10"
}
],
"range" : {
"start_pos" : 0,
"end_pos" : 1,
"total" : 1,
"limit": 5,
"notification": "AQL query reached the search hard limit, results are trimmed."
}
}
```

### 2.8.2 | Artifact Search (Quick Search)

**Description:** Artifact search by part of file name.

Searches return file info URIs. Can limit search to specific repositories (local or caches).

#### Note

The search must be performed on the actual source repository (local or remote). Virtual repositories are not supported.

**Since:** 2.2.0

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /api/search/artifact?name=name[&repos=x[,y]]

**Headers (Optional):** X-Result-Detail: info (to add all extra information of the found artifact), X-Result-Detail: properties (to get the properties of the found artifact), X-Result-Detail: info, properties (for both).

**Produces:** application/json (application/vnd.org.jfrog.artifactory.search.ArtifactSearchResult+json)

#### Sample Output:

```
GET /api/search/artifact?name=lib&repos=libs-release-local
{
"results": [
{
    "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme/lib/ver/lib-ver.pom"
},{{
    "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme/lib/ver2/lib-ver2.pom"
}}
]
```

### 2.8.3 | Archive Entries Search (Class Search)

**Description:** Search archive for classes or any other resources within an archive.

Can limit search to specific repositories (local or caches).

**Since:** 2.2.0

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /api/search/archive?name=[archiveEntryName][&repos=x[,y]]

**Produces:** application/json (application/vnd.org.jfrog.artifactory.search.ArchiveEntrySearchResult+json)

#### Sample Output:

```
GET /api/search/archive?name=*Logger.class&repos=third-party-releases-local,repo1-cache
{
```

# JFrog REST APIs Displayed in the header

```
"results" :[
  {
    "entry": "org/apache/jackrabbit/core/query/lucene/AbstractIndex.LoggingPrintStream.class",
    "archiveUris": [
      "http://localhost:8081/artifactory/api/storage/third-party-releases-local/org/apache/jackrabbit/
        jackrabbit-core/1.2.3/jackrabbit-core-1.2.3.jar",
      "http://localhost:8081/artifactory/api/storage/third-party-releases-local/org/apache/jackrabbit/
        jackrabbit-core/1.3.1/jackrabbit-core-1.3.1.jar"
    ]
  },
  {
    "entry": "org/codehaus/plexus/logging/AbstractLogger.class",
    "archiveUris": [
      "http://localhost:8081/artifactory/api/storage/repo1-cache/org/codehaus/plexus/plexus-container-default/
        1.0-alpha-9-stable-1/plexus-container-default-1.0-alpha-9-stable-1.jar"
    ]
  }
]
```

## 2.8.4 | GAVC Search

**Description:** Search by Maven coordinates: GroupId, ArtifactId, Version & Classifier.

Search must contain at least one argument. Can limit search to specific repositories (local and remote-cache).

**Since:** 2.2.0

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /api/search/gavc?[g=groupId][&a=artifactId][&v=version][&c=classifier][&repos=x[,y]]  
[&specific=true(default false)]

**Headers (Optional):** X-Result-Detail: info (to add all extra information of the found artifact), X-Result-Detail: properties (to get the properties of the found artifact), X-Result-Detail: info, properties (for both).

**Produces:** application/json (application/vnd.org.jfrog.artifactory.search.GavcSearchResult+json)

**Sample Output:**

```
GET /api/search/gavc?g=org.acme&a=artifact&v=1.0&c=sources&repos=libs-release-local
{
"results": [
  {
    "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme/artifact/1.0/artifact-1.0-
sources.jar"
  },
  {
    "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme/artifactB/1.0/artifactB-1.0-
sources.jar"
  }
]
```

### 2.8.4.1 | Usage for Remote and Virtual repositories

GET /api/search/gavc?[g=groupId][&a=artifactId][&v=version][&c=classifier][&repos=x[,y]][&specific=true(default false)]

From Artifactory version 7.37.9, the following `&specific=true(default false)` attribute was added to support virtual and remote repositories.

Note the following:

- The exact group id and artifact id must be provided to search remote repositories.
- Once `&specific=true(default false)` is set to true, the output will be minimized to only include download Url, ext, version, and classifier.

**Sample Output:**

## JFrog REST APIs Displayed in the header

```
{ "results": [ { "downloadUri": "http://localhost:8081/artifactory/maven-virtual/abbot/abbot/0.12.3/abbot-0.12.3.jar", "ext": "jar", "version": "0.12.3" }, { "downloadUri": "http://localhost:8081/artifactory/maven-virtual/abbot/abbot/0.12.3/abbot-0.12.3.pom", "ext": "pom", "version": "0.12.3" }, { "downloadUri": "http://localhost:8081/artifactory/maven-virtual/abbot/abbot/0.13.0/abbot-0.13.0.jar", "ext": "jar", "version": "0.13.0" }, { "downloadUri": "http://localhost:8081/artifactory/maven-virtual/abbot/abbot/0.13.0/abbot-0.13.0.pom", "ext": "pom", "version": "0.13.0" }, { "downloadUri": "http://localhost:8081/artifactory/maven-virtual/abbot/abbot/1.4.0/abbot-1.4.0-javadoc.jar", "ext": "jar", "version": "1.4.0", "classifier": "javadoc" }, { "downloadUri": "http://localhost:8081/artifactory/maven-virtual/abbot/abbot/1.4.0/abbot-1.4.0-sources.jar", "ext": "jar", "version": "1.4.0", "classifier": "sources" }, { "downloadUri": "http://localhost:8081/artifactory/maven-virtual/abbot/abbot/1.4.0/abbot-1.4.0.jar", "ext": "jar", "version": "1.4.0" }, { "downloadUri": "http://localhost:8081/artifactory/maven-virtual/abbot/abbot/1.4.0/abbot-1.4.0.pom", "ext": "pom", "version": "1.4.0" } ] }
```

### 2.8.5 | Property Search

**Description:** Search by properties.

If no value is specified for a property - assume `**`. Can limit search to specific repositories (local, remote-cache or virtual).

**Since:** 2.2.0

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /api/search/prop?[p1=v1,v2][&p2=v3][&repos=x[,y]]

**Headers (Optional):** X-Result-Detail: info (To add all extra information of the found artifact), X-Result-Detail: properties (to get the properties of the found artifact), X-Result-Detail: info, properties (for both).

**Produces:** application/json (application/vnd.org.jfrog.artifactory.search.MetadataSearchResult+json)

**Sample Output:**

```
GET /api/search/prop?p1=v1,v2&p2=v3&repos=libs-release-local
{
  "results" : [
    {
      "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme/lib/ver/lib-ver.pom"
    },
    {
      "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme/lib/ver2/lib-ver2.pom"
    }
  ]
}
```

### 2.8.6 | Checksum Search

**Description:** Artifact search by checksum (md5, sha1, or sha256)

Searches return file info URIs. Can limit search to specific repositories (local, remote-cache or virtual).

**Notes:** Requires Artifactory Pro

**Since:** 2.3.0

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /api/search/checksum?md5=md5sum?sha1=sha1sum?sha256=sha256sum[&repos=x[,y]]

**Headers (Optional):** X-Result-Detail: info (to add all extra information of the found artifact), X-Result-Detail: properties (to get the properties of the found artifact), X-Result-Detail: info, properties (for both).

**Produces:** application/json (application/vnd.org.jfrog.artifactory.search.ChecksumSearchResult+json)

**Sample Output:**

```
GET /api/search/checksum?sha256=9a7fb65f15e00aa2a22c1917d0dafd4374fee8daf0966a4d94cd37a0b9acafb9&repos=libs-release-local
{
  "results": [

```

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```
{  
    "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/jfrog/build-info-api/1.3.1/build-  
info-api-1.3.1.jar"  
}  
]  
}
```

### 2.8.7 | Bad Checksum Search

**Description:** Find all artifacts that have bad or missing client checksum values (md5 or sha1)

Searches return file info URLs. Can limit the search to specific repositories (local, remote-cache, or virtual).

**Notes:** Requires Artifactory Pro or higher

**Since:** 2.3.4

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /api/search/badChecksum?type=md5|sha1[&repos=x[,y]]

**Produces:** application/json (application/vnd.org.jfrog.artifactory.search.BadChecksumSearchResult+json)

**Sample Output:**

```
GET /api/search/badChecksum?type=md5&repos=libs-release-local  
{  
"results": [  
{  
    "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/jfrog/build-info-api/1.3.1/build-  
info-api-1.3.1.jar"  
    "serverMd5": "4040c7c184620af0a0a8a3682a75eb7"  
    "clientMd5": "4040c7c184620af0a0a8a3682a75e44" //On missing checksum this element will be an empty string  
}  
]  
}
```

### Note

The response is limited to a maximum of 10000 results.

### 2.8.8 | Artifacts Not Downloaded Since

**Description:** Returns all artifacts not downloaded since the specified Java epoch in **milliseconds**.

Optionally include only artifacts created before the specified `createdBefore` date, otherwise only artifacts created before `notUsedSince` are returned.

Can limit search to specific repositories (local or caches).

**Since:** 2.2.4

**Security:** Requires a privileged non-anonymous user.

**Usage:** GET /api/search/usage?notUsedSince=javaEpochMillis[&createdBefore=javaEpochMillis][&repos=x[,y]]

**Produces:** application/json (application/vnd.org.jfrog.artifactory.search.ArtifactUsageResult+json)

**Sample Output:**

```
GET /api/search/usage?notUsedSince=long&createdBefore=long&repos=libs-release-local  
{  
"results" : [  
{  
    "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme/lib/ver/lib-ver.jar",  
    "lastDownloaded": ISO8601  
}, {
```

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```
        "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme/lib/ver2/lib-ver2.jar",
        lastDownloaded: ISO8601
    }
]
}
```

### 2.8.9 | Artifacts With Date in Date Range

**Description:** Get all artifacts with specified dates within the given range. Search can be limited to specific repositories (local or caches).

**Since:** 3.2.1

**Security:** Requires a privileged non-anonymous user.

**Usage:** GET /api/search/dates?[from=fromVal][&to=toVal][&repos=x[,y]][&dateFields=c[,d]]

**Parameters:** The from and to parameters can be either a long value for the java epoch (**milliseconds** since the epoch), or an ISO8601 string value. from is mandatory. If to is not provided, now() will be used instead. If both parameters are omitted, 400 bad request is returned.

The dateFields parameter is a mandatory, comma-separated list of date fields that specify which fields the from and to values should be applied to. The supported date fields are:created,lastModified,lastDownloaded.

The dateFields parameter dictates which fields will be added to the JSON returned. If any of the specified date fields of an artifact is within the specified range, the artifact will be returned.

**Produces:** application/json (application/vnd.org.jfrog.artifactory.search.ArtifactResult+json)

#### Sample Requests:

Long value:

```
GET /artifactory/api/search/dates?from=1708819200000&dateFields=created,lastModified
```

ISO 8601 value:

```
GET /artifactory/api/search/dates?from=2024-02-28T12:07:45.867Z&to=2024-02-29T23:59:59.867Z&dateFields=created,lastModified
GET /artifactory/api/search/dates?from=2024-02-28T12:07:45.867Z&dateFields=created,lastModified
```

#### Sample Output:

```
{
  "results": [
    {
      "uri": "https://productdemo.jfrog.io/artifactory/api/storage/jfrog-logs/artifactory/2024-02-28/ecc742f16766-observability-request-2024-02-28T12-07-35.983.log.gz",
      "created": "2024-02-28T12:07:46.485Z",
      "lastModified": "2024-02-28T12:07:46.326Z"
    },
    {
      "uri": "https://productdemo.jfrog.io/artifactory/api/storage/jfrog-logs/artifactory/2024-02-28/c13cfef8109-observability-request-2024-02-28T12-07-57.343.log.gz",
      "created": "2024-02-28T12:08:07.847Z",
      "lastModified": "2024-02-28T12:08:07.628Z"
    },
    {
      "uri": "https://productdemo.jfrog.io/artifactory/api/storage/jfrog-logs/artifactory/2024-02-29/99c9f9e0b6ee-access-security-audit.2024-02-28T10-58-54.659.log.gz",
      "created": "2024-02-29T09:58:15.882Z",
      "lastModified": "2024-02-29T09:58:15.795Z"
    },
    {
      "uri": "https://productdemo.jfrog.io/artifactory/api/storage/jfrog-logs/artifactory/2024-02-28/ba0c747a992a-observability-request-2024-02-28T12-10-34.198.log.gz",
      "created": "2024-02-28T12:11:09.699Z",
      "lastModified": "2024-02-28T12:11:09.548Z"
    },
    {
      "uri": "https://productdemo.jfrog.io/artifactory/api/storage/jfrog-logs/artifactory/2024-02-28/ba0c747a992a-observability-request-2024-02-28T12-10-34.198.log.gz",
      "created": "2024-02-28T12:11:09.699Z",
      "lastModified": "2024-02-28T12:11:09.548Z"
    }
  ]
}
```

## JFrog REST APIs Displayed in the header

```
"uri": "https://productdemo.jfrog.io/artifactory/api/storage/jfrog-logs/artifactory/2024-02-28/86f9f4ad9d6c-observability-request-2024-02-28T12-08-58.368.log.gz",
  "created": "2024-02-28T12:09:28.873Z",
  "lastModified": "2024-02-28T12:09:28.695Z"
},
{
  "uri": "https://productdemo.jfrog.io/artifactory/api/storage/jfrog-logs/artifactory/2024-02-29/99c9f9e0b6ee-access-request.2024-02-29T20-37-59.787.log.gz",
  "created": "2024-02-29T20:38:15.972Z",
  "lastModified": "2024-02-29T20:38:15.786Z"
},
]
}
```

### 2.8.10 | Artifacts Created in Date Range

**Description:** Get All Artifacts Created in Date Range

If 'to' is not specified use now(). Can limit search to specific repositories (local or remote-cache).

**Since:** 2.2.0

**Security:** Requires a privileged non-anonymous user.

**Usage:** GET /api/search/creation?from=javaEpochMillis[&to=javaEpochMillis][&repos=x[,y]]

**Produces:** application/json (application/vnd.org.jfrog.artifactory.search.ArtifactCreationResult+json)

**Sample Output:**

```
GET /api/search/creation?from=long&to=long&repos=libs-release-local
{
  "results" : [
    {
      "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme/lib/ver/lib-ver.jar",
      "created": ISO8601
    },
    {
      "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme/lib/ver2/lib-ver2.jar",
      "created": ISO8601
    }
  ]
}
```

### 2.8.11 | Pattern Search

**Description:** Get all artifacts matching the given Ant path pattern

**Since:** 2.2.4

**Notes:** Requires Artifactory Pro. Pattern "\*\*\*" is not supported to avoid overloading search results.

**Security:** Requires a privileged non-anonymous user.

**Usage:** GET /api/search/pattern?pattern=repo-key:this/is/a/\*pattern\*.war

**Produces:** application/json (application/vnd.org.jfrog.artifactory.search.PatternResultFileSet+json)

**Sample Output:**

```
GET /api/search/pattern?pattern=libs-release-local:killer/*/ninja/*/*.jar
{
  "repositoryUri" : "http://localhost:8081/artifactory/libs-release-local",
  "sourcePattern" : "libs-release-local:killer/*/ninja/*/*.jar",
  "files" : [
    "killer/coding/ninja/1.0/monkey-1.0.jar",
    "killer/salty/ninja/1.5-SNAPSHOT/pickle-1.5-SNAPSHOT.jar"
  ]
}
```

```
        ]  
    }
```

## 2.8.12 | Builds for Dependency

**Description:** Find all the builds an artifact is a dependency of (where the artifact is included in the build-info dependencies)

**Notes:** Requires Artifactory Pro

**Since:** 2.3.4

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /api/search/dependency?sha1=sha1Checksum

**Produces:** application/json

(application/vnd.org.jfrog.artifactory.search.DependencyBuilds+json)

**Sample Output:**

```
GET /api/search/dependency?sha1=451a3c5f8cf44c5d805379e760b5c512c7d250b  
{  
  "results" : [  
    {  
      "uri": "http://localhost:8081/artifactory/api/build/my-build/50"  
    },  
    {  
      "uri": "http://localhost:8081/artifactory/api/build/my-build/51"  
    }  
  ]  
}
```

## 2.8.13 | License Search

**Description:** Search for artifacts that were already tagged with license information and their respective licenses.

To search by specific license values use Property Search with the 'artifactory.licenses' property.

When the autofind parameter is specified Artifactory will try to automatically find new license information and return it as part of the result in the found field.

Please note that this can affect the speed of the search quite dramatically, and will still search only on already-tagged artifacts.

Default parameter values when unspecified: unapproved=1, unknown=1, notfound=0, neutral=0, approved=0, autofind=0.

Can limit search to specific repositories (local, remote-cache or virtual).

**Since:** 2.3.0

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

**Usage:** GET /api/search/license[?unapproved=1][&unknown=1][&notfound=0][&neutral=0][&approved=0][&autofind=0][&repos=x[,y]]

**Produces:** application/json (application/vnd.org.jfrog.artifactory.search.LicenseResult+json)

**Sample Output:**

```
GET /api/search/license?approved=1&unknown=1&autofind=1&repos=libs-release-local,staging  
{  
  "results" : [  
    {  
      "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme/lib/ver/lib-ver.jar",  
      "license": "lgplv2",  
      "found": "lgplv2",  
    }  
  ]  
}
```

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```
        "status": "approved"
    },{
        "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme/lib/ver/lib-ver.jar",
        "license": "cddl1",
        "found": "gplv3",
        "status": "neutral"
    },{
        "uri": "http://localhost:8081/artifactory/api/storage/staging/org/acme/lib/ver2/lib-ver2.jar",
        "license": "gplv3",
        "found": "gplv3",
        "status": "unapproved"
    }
]
}
```

## 2.8.14 | Artifact Version Search

**Description:** Search for all available artifact versions by GroupId and ArtifactId in local, remote or virtual repositories.

Search can be limited to specific repositories (local, remote and virtual) by setting the repos parameter.

**Release/integration versions:** Unless the version parameter is specified, both release and integration versions are returned. When version is specified, e.g. 1.0-SNAPSHOT, result includes only integration versions.

Integration versions are determined by the Repository Layouts of the repositories searched. For the integration search to work the repository layout requires an 'Artifact Path Pattern' that contains the baseRev token and then the fileIntegRev token with only literals between them.

**Remote searches:** By default only local and cache repositories are used. When specifying remote=1, Artifactory searches for versions on remote repositories. **NOTE!** that this can dramatically slow down the search.

For Maven repositories the remote maven-metadata.xml is consulted. For non-maven layouts, remote file listing runs for all remote repositories that have the 'List Remote Folder Items' checkbox enabled.

**Filtering results (Artifactory 3.0.2+):** The version parameter can accept the \* and/or ? wildcards which will then filter the final result to match only those who match the given version pattern.

**Since:** 2.6.0

**Notes:** Requires Artifactory Pro

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /api/search/versions?[g=groupId][&a=artifactId][&v=version][&remote=0/1][&repos=x[,y]]

**Produces:** application/json (application/vnd.org.jfrog.artifactory.search.ArtifactVersionsResult+json)

**Sample Output:**

```
GET /api/search/versions?g=org.acme&a=artifact&repos=libs-release-local
{
  "results": [
    {
      "version": "1.2",
      "integration": false
    },
    {
      "version": "1.0-SNAPSHOT",
      "integration": true
    },
    {
      "version": "1.0",
      "integration": false
    }
  ]
}
```

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### 2.8.15 | Artifact Latest Version Search Based on Layout

**Description:** Search for the latest artifact version by groupId and artifactId, based on the definitions in the Repository Layouts.

#### Note

This API is based on a Maven-specific algorithm for sorting versions. For more information on sorting rules, see [Version Rules](#).

Search can be limited to specific repositories (local, remote-cache, or virtual) by setting the repos parameter. When searching in a virtual repository, each child-repository layout will be consulted accordingly.

Latest release vs. latest integration: Unless the version parameter is specified, the search returns the latest artifact release version. When version is specified, e.g. 1.0-SNAPSHOT, the result is the latest integration version. Integration versions are determined by the Repository Layouts of the repositories searched. For integration search to work the repository layout requires an "Artifact Path Pattern" that contains the baseRev token and then the fileItegRev token with only literals between them.

Remote searches: By default only local and cache repositories will be used. When specifying remote=1, Artifactory searches for versions on remote repositories. Note that **this can dramatically slow down the search**.

For Maven repositories the remote maven-metadata.xml will be consulted. For non-Maven layouts, remote file listing runs for all remote repositories that have the 'List Remote Folder Items' checkbox enabled.

Filtering results (Artifactory 3.0.2+): The version parameter can accept the \* and/or ? wildcards which will then filter the final result to match only those who match the given version pattern.

Artifact path pattern: The [org] and [module] fields must be specified in the artifact path pattern of the repository layout for this call to work.

**Since:** 2.6.0

**Notes:** Requires Artifactory Pro

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /api/search/latestVersion?[g=groupId][&a=artifactId][&v=version][&remote=1][&repos=x[,y]]

**Produces:** text/plain

#### Sample Output:

```
GET /api/search/latestVersion?g=org.acme&a=artifact&v=1.0-SNAPSHOT&repos=libs-snapshot-local
```

```
1.0-201203131455-2
```

### 2.8.16 | Artifact Latest Version Search Based on Properties

**Description:** Search for artifacts with the latest value in the version property. Only artifacts with the version property expressly defined in lowercase will be returned.

#### Note

This API is based on a Maven-specific algorithm for sorting versions. For more information on sorting rules, see [Version Rules](#).

**Notes:** Requires Artifactory Pro

Results can be filtered by specifying additional properties.

- {repo}: Specify a repository to search through or replace with "\_any" to search through all repositories
- {path}: Specify a path to search through or replace with "\_any" to search through all paths
- listFiles=0 (default): Artifactory will only retrieve the latest version
- listFiles=1: Artifactory will retrieve the latest version and the corresponding files

You may specify filters to restrict the set of artifacts that are searched by adding any properties to your search URL.

**Since:** 3.1.1

**Security:** Requires an authenticated user (not anonymous) to use the api and read permission to the repository of each artifact.

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**Usage:** GET /api/versions/{repo}/{path}?[listFiles=0/1]&[<property key>=<property value>]&[<property key>=<property value>]

**Consumes:** json

**Examples:**

Return the latest version and corresponding artifacts by searching for through all repositories whose path starts with a/b and are annotated with the properties os=win and license=GPL.

```
GET /api/versions/_any/a/b?os=win&license=GPL&listFiles=1
{
  "version" : "1.1.2",
  "artifacts" : [ {
    "uri" : "http://...."
  }]
}
```

Return the latest version (without the corresponding artifacts) by searching through all repositories whose path starts with a/b and are annotated with the properties os=win and license=GPL.

Return only the version.

```
GET /api/versions/_any/a/b?os=win&license=GPL
{
  "version" : "1.1.2",
  "artifacts" : []
}
```

### 2.8.17 | Build Artifacts Search

**Description:** Find all the artifacts related to a specific build.

**Notes:** Requires Artifactory Pro

**Since:** 2.6.5

**Security:** Requires a privileged user (can be anonymous)

**Usage:** POST /api/search/buildArtifacts

**Consumes:** application/json (application/vnd.org.jfrog.artifactory.search.BuildArtifactsRequest+json)

**Sample Usage:**

```
POST /api/search/buildArtifacts
{
  +"buildName": "build-name" // The build name for search by
  +"buildNumber": "15" // The build number to search by, can be LATEST to search for the latest build number
  -"buildStatus": "Released" // Optionally search by latest build status (e.g: "Released")
  -"repos": ["libs-release-local,ext-release-local"] // Optionally refine search for specific repos, omit to search within all repositories
  -"mappings": [ // Optionally refine the search by providing a list of regexp patterns to search by
    {
      "input": "(.+)-sources.jar"
    },
    {
      "input": "(.+)-javadoc.jar"
    }
  ]
}
```

**Produces:** application/json (application/vnd.org.jfrog.artifactory.search.BuildArtifactsSearchResult+json)

**Sample Output:**

```
POST /api/search/buildArtifacts
{
  "results" : [
    {
      "downloadUri": "http://localhost:8081/artifactory/libs-release-local/org/acme/lib/ver/lib-sources.jar"
    },
    {
      "downloadUri": "http://localhost:8081/artifactory/ext-release-local/org/acme/lib/ver/lib-ver-javadoc.jar"
    }
  ]
}
```

```
    }  
]  
}
```

## 2.8.18 | List Docker Repositories

**Description:** Lists all Docker repositories (the registry's \_catalog) hosted in an Artifactory Docker repository.

**Since:** 4.4.3. The n and last pagination parameters are supported from version 5.4.6. Both parameters refer to an integer.

### Notes on List Docker Repositories

- Requires JFrog Container Registry or Artifactory Pro
- To enable fetching from the cache using the ListDockerRepositories and the ListDockerTags rest APIs, you will need to set the following system properties in the artifactory.system.propertiesfile:
  - Set artifactory.docker.catalogs.tags.fallback.fetch.remote.cache to true (the default is false)
  - Set artifactory.docker.cache.remote.repo.tags.and.catalog=https://registry-1.docker.io/This property should reference the URL of the remote registry to which the remote docker repositories point. Use the retrievalCachePeriodSecs property to adjust the cache interval setting.

**Security:** Requires a privileged user

**Usage:** GET /api/docker/{repo-key}/v2/\_catalog?n=<n from the request>&last=<last tag value from previous response>

**Produces:** application/json

```
{  
  "repositories": [  
    <name>,  
    ...  
  ]  
}
```

### Sample Usage:

```
GET /api/docker/docker-local/v2/_catalog  
{  
  "repositories": [  
    "busybox",  
    "centos",  
    "hello-world"  
  ]  
}
```

## 2.8.19 | List Docker Tags

**Description:** Lists all tags of the specified Artifactory Docker repository.

**Since:** 4.4.3. The n and last pagination parameters are supported from version 5.4.6.

## Notes on List Docker Tags

- Requires JFrog Container Registry or Artifactory Pro
- To enable fetch from cache using the ListDockerRepositories and the ListDockerTags rest APIs, set the `artifactory.docker.catalogs.tags.fallback.fetch.remote.cache` system property to true (default false) in the `artifactory.system.properties` file.
- For Artifactory versions 7.90.1 and above, Artifactory will only return tags that comply with the OCI and Docker naming specifications. To disable this feature and return all tags, set the following feature flag in your system configuration file:  
`artifactory.docker.filter.digests.from.tags.list.enabled=false`

For more information, see [OCI Specifications](#) and [Docker Image Tag](#).

**Security:** Requires a privileged user

**Usage:** GET `/api/docker/{repo-key}/v2/{image name}/tags/list?n=<Number of consecutive tags>&last=<last tag position (numeric) from previous response>`

**Produces:** application/json

```
{  
  "name": "<image name>",  
  "tags" : ["<tag>"]  
}
```

**Sample Usage:**

```
GET /api/docker/{repo-key}/v2/{image name}/tags/list?n=<number of consecutive tags>&last=<last tag position (numeric) from previous response>  
{  
  "name" : "postgres",  
  "tags" : [ "9.5.2" ]  
}
```

## 2.9 | ARTIFACTORY SECURITY

### 2.9.1 | Updates to the Security APIs

From Artifactory release 7.49.3, the security APIs are being decoupled from Artifactory and moving to JFrog Platform Access. This means that the security APIs below are planned to be deprecated at a later stage. We recommend using the available [new APIs](#) for all your security and access needs moving forward.

JFrog is currently exposing the new Security REST APIs that are already available; these APIs are being modified and in the coming periods will be added to and will replace the previous APIs, but will remain backward-compatible.

### 2.9.2 | Get User Details

#### Note

From Artifactory release 7.49.3, this API is being replaced by the [new SECURITY APIs](#) available in the JFrog Platform.

**Description:** Get the details of an Artifactory user

**Since:** 2.4.0

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

**Usage:** GET `/api/security/users/{userName}`

**Produces:** application/json (`application/vnd.org.jfrog.artifactory.security.Users+json`)

**Sample Output:**

```
GET /api/security/users/davids
{
user.json
}
```

### 2.9.3 | Get User Encrypted Password

**Description:** Get the encrypted password of the authenticated requestor.

**Since:** 3.3.0

**Notes:** The request needs to be authenticated using a clear-text password. i.e. when submitting the request to Artifactory, the password provided for authentication needs to be in clear-text. If you authenticate with an API key, the encrypted API key will be returned in the response.

**Security:** Requires a privileged user

**Usage:** GET /api/security/encryptedPassword

**Produces:** plain/text

**Sample Output:**

```
GET /api/security/encryptedPassword
```

```
AP5v2zs9ga7CJNZb74u3arAKE5B
```

### 2.9.4 | Expire Password for Multiple Users

**Description:** Expires password for a list of users

**Since:** 4.4.2

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

**Usage:** POST /api/security/users/authorization/expirePassword -H "Content-type: application/json" -d '[{userA}, {userB}]'

**Sample Usage:**

```
POST /api/security/users/authorization/expirePassword -H "Content-type: application/json" -d '[{davids}, {johnb}]'
```

### 2.9.5 | Expire Password for All Users

**Description:** Expires password for all users

**Since:** 4.4.2

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

**Usage:** POST /api/security/users/authorization/expirePasswordForAllUsers

**Sample Usage:**

```
POST /api/security/users/authorization/expirePasswordForAllUsers
```

### 2.9.6 | Unexpire Password for a Single User

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**Description:** Unexpires a user's password.

### Artifactory REST API Future Breaking Change

In an upcoming release of Artifactory, JFrog will expire the "Unexpire Password for a Single User" endpoint from the Artifactory REST APIs and the UI that goes with it (once API v1 is fully deprecated). This means this API will not available in Artifactory REST API V2.

**Since:** 4.4.2

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

**Usage:** POST /api/security/users/authorization/unexpirePassword/{userName}

**Produces:** application/text

#### Sample Usage:

```
POST /api/security/users/authorization/unexpirePassword/davids
```

### 2.9.7 | Get Password Expiration Policy

**Description:** Returns the password expiration policy

**Since:** 4.4.2

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

**Usage:** GET /api/security/configuration/passwordExpirationPolicy

**Produces:** application/json

#### Sample Usage:

```
GET /api/security/configuration/passwordExpirationPolicy
{
    "enabled": "true"
    "passwordMaxAge": "60"
    "notifyByEmail": "true"
}
```

### 2.9.8 | Set Password Expiration Policy

**Description:** Sets the password expiration policy

**Since:** 4.4.2

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

**Usage:** PUT /api/security/configuration/passwordExpirationPolicy -H "Content-type: application/json" -d '{ "enabled" : "true|false", "passwordMaxAge" : "1-999", "notifyByEmail": "true|false" }'

**Produces:** application/json

#### Sample Usage:

```
PUT /api/security/configuration/passwordExpirationPolicy -H "Content-type: application/json" -d '{ "enabled" : "true",
"passwordMaxAge" : "60", "notifyByEmail": "true" }'
```

## 2.9.9 | Configure User Lock Policy

**Description:** Configures the user lock policy that locks users out of their account if the number of repeated incorrect login attempts exceeds the configured maximum allowed.

**Security:** Requires a valid admin user

**Usage:** PUT /api/security/userLockPolicy

**Produces:** application/text

**Since:** 4.4

**Sample usage:**

```
PUT http://{host}:{port}/artifactory/api/security/userLockPolicy -H 'Content-Type: application/json'-d '  
{  
    "enabled" : true|false,  
    "loginAttempts" : {value}  
}'
```

## 2.9.10 | Retrieve User Lock Policy

**Description:** Returns the currently configured user lock policy.

**Security:** Requires a valid admin user

**Usage:** GET /api/security/userLockPolicy

**Produces:** application/json

**Since:** 4.4

**Sample usage:**

```
GET http://{host}:{port}/artifactory/api/security/userLockPolicy  
'{  
    "enabled" : true|false,  
    "loginAttempts" : {value}  
'
```

## 2.9.11 | Get Locked Out Users

**Description:** If locking out users is enabled, lists all users that were locked out due to recurrent incorrect login attempts.

**Security:** Requires a valid admin user

**Usage:** GET /api/security/lockedUsers

**Produces:** application/json

**Since:** 4.4

**Sample Usage:**

```
GET /api/security/lockedUsers  
[ "usera", "userb", ... ]
```

## 2.9.12 | Unlock Locked-Out Users

**Description:** Unlocks a list of users that were locked out due to recurrent incorrect login attempts.

**Security:** Requires a valid admin user

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**Usage:** POST /api/security/unlockUsers

**Produces:** application/text

**Since:** 4.4

**Sample Usage:**

```
POST /api/security/unlockUsers -H 'Content-Type: application/json' -d '[ {userA}, {userB} ]'
```

## 2.9.13 | Unlock All Locked Out Users

**Description:** Unlocks all users that were locked out due to recurrent incorrect login attempts.

**Security:** Requires a valid admin user

**Usage:** POST /api/security/unlockAllUsers

**Produces:** application/text

**Since:** 4.4

**Sample Usage:**

```
POST /api/security/unlockAllUsers
```

## 2.9.14 | Create API Key

**Description:** Create an API key for the current user. Returns an error if API key already exists - use regenerate API key instead.

**Since:** 4.3.0

**Usage:** POST /api/security/apiKey

**Produces:** application/json

**Sample input:**

```
POST /api/security/apiKey
```

**Sample output:**

```
{
  "apiKey": "30lopos0tVFyCMrT+cXmCAScmVMPrSYXkWIjiyDCXsY="
}
```

## 2.9.15 | Regenerate API Key

**Description:** Regenerate an API key for the current user

**Since:** 4.3.0

**Usage:** PUT /api/security/apiKey

**Produces:** application/json

**Sample input:**

```
PUT /api/security/apiKey
```

**Sample output:**

```
{
  "apiKey": "30lopos0tVFyCMrT+cXmCAScmVMPrSYXkWIjiyDCXsY="
}
```

## 2.9.16 | Get API Key

**Description:** Get the current user's own API key

**Since:** 4.3.0

**Usage:** GET /api/security/apiKey

**Produces:** application/json

**Sample usage:**

```
GET /api/security/apiKey
```

**Sample output:**

```
{  
    "apiKey": "30lopos0tVFyCMrT+cXmCAScmVMPsSYXkWIjiyDCXsY="  
}
```

## 2.9.17 | Revoke API Key

**Description:** Revokes the current user's API key

**Since:** 4.3.0

**Usage:** DELETE /api/security/apiKey

**Produces:** application/json

## 2.9.18 | Revoke User API Key

**Description:** Revokes the API key of another user

**Since:** 4.3.0

**Security:** Requires a privileged user (Admin only)

**Usage:** DELETE /api/security/apiKey/{username}

**Produces:** application/json

## 2.9.19 | Revoke All API Keys

**Description:** Revokes all API keys currently defined in the system

**Since:** 4.3.0

**Security:** Requires a privileged user (Admin only)

**Usage:** DELETE /api/security/apiKey?deleteAll={0/1}

**Produces:** application/json

## 2.9.20 | Get Permission Targets

**Description:** Get the permission targets list

**Since:** 2.4.0

**Notes:** Requires Artifactory Pro.

## JFrog REST APIs Displayed in the header

- To support spaces in the User or Group or Permission names, a Plus symbol ('+') is automatically placed when there is a space. This is set by default as the `artifactory`.

**Security:** Requires an admin user

**Usage:** GET /api/security/permissions

**Produces:** application/json (application/vnd.org.jfrog.artifactory.security.Users+json), application/json (application/vnd.org.jfrog.artifactory.security.Groups+json), application/json (application/vnd.org.jfrog.artifactory.security.PermissionTargets+json)

**Sample Output:**

```
GET /api/security/permissions
[
  {
    "name": "readSourceArtifacts"
    "uri" : "http://localhost:8081/artifactory/api/security/permissions/readSourceArtifacts"
  }, {
    "name": "populateCaches"
    "uri" : "http://localhost:8081/artifactory/api/security/permissions/populateCaches"
  }
]
```

### 2.9.21 | Get Permission Target Details

**Description:** Returns the details of an Artifactory Permission Target

**Since:** 2.4.0

**Notes:** Requires Artifactory Pro. This REST API is also available for Artifactory versions below 6.6.

**Security:** Requires an admin user

**Usage:** GET /api/security/permissions/{permissionTargetName}

**Produces:** application/json (application/vnd.org.jfrog.artifactory.security.PermissionTarget+json)

**Sample Output:**

```
GET /api/security/permissions/populateCaches
{
  permission-target.json
}
```

### 2.9.22 | Create or Replace Permission Target

**Description:** Creates a new permission target in the JFrog Unified Platform or replaces an existing permission target

**Notes:** Requires Artifactory Pro

- Missing values will be set to the default values as defined by the consumed type.
- Please note when adding Release Bundles permission targets
- Requires an Edge/Enterprise+ license

On Edge nodes, the repositories section in the request body can be left empty or contain the 'release-bundles' default repository. No other repositories are allowed. An Enterprise+ license allows you to add any repository

The default repository in the repository section is "release-bundles" for both Edge/EntPlus licenses. (if user create permission target with empty repositories section the repository that we put is "release bundles")

- To support spaces in the User or Group or Permission names, a Plus symbol ('+') is automatically placed when there is a space. This is set by default as the `artifactory.security.api.plus.insteadof.space` property is set to true. If you want to use the + (plus) symbol, set the `artifactory.security.api.plus.insteadof.space` to false.

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**Security:** Requires an admin user

**Usage:** PUT /api/security/permissions/{permissionTargetName}

**Consumes:** application/vnd (application/vnd.org.jfrog.artifactory.security.PermissionTarget+json)

**Sample Usage:**

```
PUT /api/security/permissions/populateCaches
{
  permission-target.json
}
```

## 2.9.23 | Delete Permission Target

**Description:** Deletes an Artifactory permission target.

**Since:** 2.4.0

**Notes:** Requires Artifactory Pro

- To support spaces in the User or Group or Permission names, a Plus symbol ('+') is automatically placed when there is a space. This is set by default as the artifactory.security.api.plus.insteadof.space property is set to true. If you want to use the + (plus) symbol, set the artifactory.security.api.plus.insteadof.space to false.

**Security:** Requires an admin user

**Usage:** DELETE /api/security/permissions/{permissionTargetName}

**Produces:** application/text

**Sample usage:**

```
DELETE /api/security/permissions/populateCaches

Permission Target 'remoteCachePopulation' has been removed successfully.
```

## 2.9.24 | Effective Item Permissions

**Description:** Returns a list of effective permissions for the specified item (file or folder).

Only users and groups with some permissions on the item are returned. Supported by local and local-cached repositories.

Permissions are returned according to the following conventions:

m=admin; d=delete; w=deploy; n=annotate; r=read

**Notes:** Requires Artifactory Pro

**Since:** 2.3.4

**Security:** Requires a valid admin or local admin user.

**Usage:** GET /api/storage/{repoKey}/{itemPath}?permissions

**Produces:** application/json (application/vnd.org.jfrog.artifactory.storage.ItemPermissions+json)

**Sample Output:**

```
GET /api/storage/libs-release-local/org/acme?permissions
{
  "uri": "http://localhost:8081/artifactory/api/storage/libs-release-local/org/acme"
  "principals": {
    "users" : {
      "bob": ["r", "w", "m"],
      "alice" : ["d", "w", "n", "r"]
    },
  }
}
```

```
"groups" : {  
    "dev-leads" : ["m","r","n"],  
    "readers" : ["r"]  
}  
}  
}
```

### 2.9.25 | Security Configuration (Deprecated)

**Description:** Returns the security configuration (security.xml).

**Since:** From Artifactory 2.2.0 - 6.x.

Deprecated from Artifactory 7.x and above, it is recommended to replace this REST with Export Access Configuration REST API which uses the access.bootstrap.json.

**Notes:** This is an advanced feature - make sure the new configuration is really what you wanted before saving.

**Security:** Requires a valid admin user

**Usage:** GET /api/system/security

**Produces:** application/xml

**Sample Output:**

```
GET /api/system/security
```

```
<security.xml/>
```

### 2.9.26 | Activate Artifactory Key Encryption

**Description:** Creates a new Artifactory encryption key and activates Artifactory key encryption.

**Since:** 3.2.2

**Notes:** This is an advanced feature intended for administrators

**Security:** Requires a valid admin user

**Usage:** POST /api/system/encrypt

**Produces:** text/plain

**Sample Usage:**

```
POST /api/system/encrypt
```

```
DONE
```

### 2.9.27 | Deactivate Artifactory Key Encryption

**Description:** Removes the current Artifactory encryption key and deactivates Artifactory key encryption.

**Since:** 3.2.2

**Notes:** This is an advanced feature intended for administrators

The decrypted state is temporary and will be reactivated following config descriptor updates.

**Security:** Requires a valid admin user

**Usage:** POST /api/system/decrypt

**Produces:** text/plain

**Sample Usage:**

```
POST /api/system/decrypt
```

DONE

## 2.9.28 | Set the Vault Configuration

**Description:** Connects the vault to the JFrog Platform to use signing keys stored in the vault.

**Note:** Requires TLS enabled.

**Since:** 7.17.4

**Security:** Requires an admin user

**Usage:** PUT /access/api/v1/vault/configs/hashicorp

**Consumes:** application/json

### Sample Usage- Authentication Type Certificate

```
{
  "type": "HashicorpVault",
  "config": {
    "url": "https://my-value.acme.org",
    "auth": {
      "type": "Certificate",
      "certificate": "<PEM FORMAT>",
      "certificateKey": "<PEM FORMAT>"
    },
    "mounts": [
      {
        "path": "my-secrets",
        "type": "kv-v1"
      }
    ]
  }
}
```

### Sample Usage- Authentication Type AppRole

```
{
  "type": "HashiCorpVault",
  "config": {
    "url": "https://my-value.acme.org",
    "auth": {
      "type": "AppRole",
      "roleId": "...",
      "secretId": "..."
    },
    "mounts": [
      {
        "path": "my-secrets",
        "type": "KV1"
      }
    ]
  }
}
```

### Sample Usage- Authentication Type Agent (Self-Hosted only)

```
{
  "type": "HashiCorpVault",
  "config": {
    "url": "https://my-value.acme.org",
    "auth": {
      "type": "Agent"
    }
  }
}
```

```
},
"mounts": [
{
  "path": "my-secrets",
  "type": "KV1"
}
]
}
```

**Response Codes:**

- **400:** Invalid input, e.g. unsupported secret manager type, auth type, missing auth, etc.
- **401 / 403:** Unauthenticated or unauthorized
- **409:** Conflict, e.g. TLS is disabled

### 2.9.29 | Delete the Secret Manager Configuration

**Description:** Deletes the connection between the vault and JFrog Platform.

**Since:** 7.17.4

**Security:** Requires an admin user

**Usage:** DELETE /access/api/v1/vault/configs/hashicorp

**Consumes:** application/json

**Sample Usage**

```
DELETE /access/api/v1/vault/configs/hashicorp
```

### 2.9.30 | Get the Secret Manager Configurations

**Description:** Get a list of all configured secret managers.

**Since:** 7.17.4

**Security:** Requires an admin user

**Usage:** GET /access/api/v1/vault/configs

**Consumes:** application/json

**Sample Usage**

```
[
  {
    "key": "hashicorp",
    "type": "HashicorpVault",
    "config": {
      "auth": {
        "type": "AppRole"
      },
      "url": "http://vault.com",
      "mounts": [
        {
          "type": "KV1",
          "path": "secrets"
        }
      ]
    }
  }
]
```

### 2.9.31 | Tests the Vault Configuration

**Description:** Try to connect to the Vault server.

**Note:** Requires TLS enabled.

**Since:** 7.19

**Security:** Requires an admin user

**Usage:** POST /access/api/v1/vault/configs/test

**Consumes:** application/json

**Sample usage:** see Set the Vault Configuration.

**Response Codes:**

- **400:** if the test fails
- **204:** If the test succeeds

### 2.9.32 | Set GPG Public Key

**Description:** Sets the default public GPG key that Artifactory provides to Debian, RPM, and Opkg clients to verify packages.

**Security:** Requires a valid admin user

**Usage:** PUT /api/gpg/key/public

Note that when the GPG key is provided as part of the JSON payload and not in the request header, you need to add the --data-binary flag to the call.

**Produces:** text/plain

**Since:** 3.3

**Sample Usage:**

PUT /api/gpg/key/public

### 2.9.33 | Set Distribution Public GPG Key

**Description:** Sets the public preconfigured GPG key of a JFrog Distribution service that needs to upload Release Bundles to a source Artifactory and Edge node. The GPG public key will be uploaded under Trusted Keys in the source Artifactory and Edge node.

**Security:** Requires a valid admin user

**Usage:** POST /api/security/keys/trusted

Note that when the public GPG key is provided as part of the JSON payload and not in the request header, you need to add the --data-binary flag to the call.

**Consumes:** application/json

**Since:** 6.0

**Sample Usage:**

```
API URL: http://<Node>:<Port>/artifactory/api/security/keys/trusted
Method : POST
Content-Type: application/json
Authorization : Basic XXXXXXXX
Body : {
  "alias" : "distribution key 1.0.0",
  "public_key" : "-----BEGIN PGP PUBLIC KEY BLOCK-----"
}
Version: BCPG C# v1.6.1.0
```

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```
mQENBFpDamEBCACrrAoudjlwnrRqqjdrCgPwEPyHqYddXPLDHViOVZfiREp9ENkq
2PITh1j79Cj+60ePaE4Kxaze+uH1ckTxhCNIBlHWiGULuKxH8Cpy7huCBdwqkD/y
```

...

```
x4w+26u0BNxE+4x1WaJ3NUb4CwtXLERfr8aKdkf1RXdMF3c96EXCBtGzLJbhrw==
=D24P
-----END PGP PUBLIC KEY BLOCK-----
}

Expected Response:{  
  "kid": "46635b",  
  "fingerprint": "f5:80:6a:1b:08:35:e7:8c:fa:a8:a0:fc:b4:fd:30:87:93:7d:19:22",  
  "key": "-----BEGIN PGP PUBLIC KEY BLOCK-----  
Version: BCPG C# 1.6.1.0\n\nmQENBFpDamEBCACrrAoudjlwnrRqqjdrCgPwEPyHqYddXPLDHViOVZfiREp9ENkq
2PITh1j79Cj+60ePaE4Kxaze+uH1ckTxhCNIBlHWiGULuKxH8Cpy7huCBdwqkD/y
```

...

```
x4w+26u0BNxE+4x1WaJ3NUb4CwtXLERfr8aKdkf1RXdMF3c96EXCBtGzLJbhrw==
=D24P
-----END PGP PUBLIC KEY BLOCK-----",
  "issued_on": "2017-12-27T09:39:45.000Z",
  "issued_by": "alen@alen.com",
  "valid_until": "1970-01-01T00:00:00.000Z"
}
```

### 2.9.34 | Get GPG Public Key

**Description:** Returns the public key that Artifactory provides to Debian and Opkg clients to verify packages

**Security:** Requires an authenticated user, or anonymous (if "Anonymous Access" is globally enabled)

**Usage:** GET /api/gpg/key/public

**Produces:** text/plain

**Since:** 3.3

**Sample Usage:**

```
GET /api/gpg/key/public
```

### 2.9.35 | Set GPG Private Key

**Description:** Sets the default private GPG key that Artifactory uses to sign Debian, RPM, and ipk (Opkg) packages.

**Security:** Requires a valid admin user

**Usage:** PUT /api/gpg/key/private

Note that when the GPG key is provided as part of the JSON payload and not in the request header, you need to add the --data-binary flag to the call.

**Produces:** text/plain

**Since:** 3.3

**Sample Usage:**

```
PUT /api/gpg/key/private
```

# JFrog REST APIs Displayed in the header

## 2.9.36 | Set GPG Pass Phrase

**Description:** Sets the pass phrase required signing Debian and ipk packages using the private key

**Security:** Requires a valid admin user

**Usage:** PUT /api/gpg/passphrase

**Headers:** -H X-GPG-PASSPHRASE:passphrase

**Produces:** text/plain

**Since:** 3.3

**Sample Usage:**

```
PUT /api/gpg/passphrase
```

## 2.9.37 | Create Key Pair

**Description:** Creates a new key pair in Artifactory or replaces an existing pair.

**Notes:** You need to add the --data-binary flag to the call when the keys are provided as part of the JSON payload.

**Since:** 7.6.0

**Security:** Requires a valid admin user

**Usage:** POST /api/security/keypair

**Sample Usage:**

```
POST /api/security/keypair
```

```
{
  "pairName": "alpine-local-key" (mandatory),
  "pairType": "RSA" (mandatory),
  "alias": "artifactory-alpine-local" (mandatory),
  "privateKey": "-----BEGIN PRIVATE KEY-----
MIGEAqEAMBAGByqGSM49AgEGBSuBBAAKBG0wawIBAQgVcB/UNPxalR9zDYAjQIf
jojUDiQuGnSJrFEEzZPT/92hRANCAASc7UJtgnF/abqWM60T3XNJEzBv5ez9TdWk
H0M6xpM2q+53wmsN/eYldgtjgBd3DBmHtPilCkiFICXyaA8z9LkJ
-----END PRIVATE KEY-----" (mandatory),
  "publicKey": "-----BEGIN PUBLIC KEY-----
MIIBIjANBgkqhkiG9w0BAQEFAOCAQ8AMIIIBcgKCAQEA1yHJxQgsHQREc1Qu40he
qxTxdtHcNvnQTu/UrTkY8wWvgXT+jpveroeWnzsmsY1DI93eLI20Rakxb3gA20
Q0Ry4ws8vhaxLQGC74uQR5+/yYrLuTKydFzuPaS1dK19qJPXB8GMdmFOijnXX4SA
jixuHle1WW7kZVtjL7nufvpXkWBGjsfrvsdkNA/5MfxAeBbqPgaq0QMEfxMAN6/R
L5kNepi/Vr4S39Xvf2DzWkTLEK8pcnjNkt9/aafhWqFW7m3HCAII6h/q1QNQKSo
GuH34Q8GsFG30izUEN9avY7hSlq7nggsvkn1NBZtFUcmGoQrtx3FmyYsIC8/R+B
ywIDAQAB
-----END PUBLIC KEY-----" (mandatory),
  "passphrase": "YouShallNotPass"
}
```

**Vault Sample Usage**

```
{
  "pairName": "alpine-local-key" (mandatory),
  "pairType": "RSA" (mandatory),
  "alias": "artifactory-alpine-local" (mandatory),
  "vaultKey": "hashicorp",
  "vaultPublicKey": {"path": "secret/default-gpg-key", "key": "gpg.key.pub"},
}
```

Response codes: 201 Successful with an empty response.

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### 2.9.38 | Get Key Pair

**Description:** Returns the details of a key pair.

**Since:** 7.6.0

**Security:** Requires an authenticated user, or anonymous (if "Anonymous Access" is globally enabled).

**Usage:** GET /api/security/keypair/{keyPairName}

**Produces:** application/json

**Sample Usage:**

```
{  
  "pairName": "alpine-local-key",  
  "pairType": "RSA",  
  "alias": "artifactory-alpine-local",  
  "publicKey": "-----BEGIN PUBLIC KEY-----",  
}
```

### 2.9.39 | Delete Key Pair

**Description:** Deletes a key pair.

Returns 200 code with an 'OK' text in case of success with an empty response.

**Since:** 7.6.0

**Security:** Requires a valid admin user.

**Usage:** DELETE /api/security/keypair/{keyPairName}

### 2.9.40 | Get Key Pair Public Key Per Repository

**Description:** Returns the public key assigned to a repository.

**Note:** To retrieve the key with its appropriate filename, run cURL request with flags -O -J.

**Since:** 7.6.0

**Security:** Requires an authenticated user, or anonymous (if "Anonymous Access" is globally enabled).

**Usage:** GET /api/security/keypair/public/repositories/{repoKey}

**Produces:** text/plain as an attachment with the filename being the KeyPair alias field via a content-disposition header.

**Sample Output:**

```
-----BEGIN PUBLIC KEY-----  
MIIBIjANBggkqhkiG9w0BAQEAAQ8AMIIIBCgKCAQEA1yHJxQgsHQREc1Qu40he  
qxTxd1tHcNnvnQTu/UrTky8wWvgXT+jpveroeWhzmsYldI93eLI20Rakxb3gA20  
Q0Ry4ws8vhaxLQGC74uQR5+/yYrLuTKydFzPaS1dK19qJPXB8GMdmFOijnXX4SA  
jixuHLe1w7kZVtjL7nufvpxkWBGjsfrvskdNA/5MfxAeBbqPgaq0QMEfxMAN6/R  
L5kNepi/Vr4s39Xvf2DzWkTLEK8pcnjNkt9/aafhWqFW7m3HCAII6h/q1QNQKSo  
GuH34Q8GsFG30izUENV9avY7hSLq7nggsvkn1NBZtFUcmGoQrtx3FmyYsIC8/R+B  
ywIDAQAB  
-----END PUBLIC KEY-----
```

### 2.9.41 | Multiple GPG Signing Keys APIs

The JFrog Platform supports managing multiple pairs of GPG signing keys to sign packages for authentication of several package types such as Debian, Opkg, and RPM using a set of REST APIs. This feature enables you to assign a signing key pair per repository, providing

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you with the granularity to choose which keys to use to sign the artifacts in repositories instead of using the same key pair to sign all artifacts.

The following repository REST APIs support working with Multiple GPG Signing Keys. The Create RSA Key Pair, Get Key Pair, and Delete Key Pair APIs are also supported.

### 2.9.42 | Set Key

**Description:** Sets the GPG keys for the repository.

**Since:** 7.19

**Security:** Requires a valid admin user

**Usage:** POST /api/v2/repositories/<repo-name>/keyPairs

**Sample Usage:**

```
curl -X POST -uadmin:password "http://localhost:8080/artifactory/api/v2/repositories/debian-local/keyPairs" --data-binary 'key-name' --header 'Content-Type: text/plain'
```

### 2.9.43 | Delete Key

**Description:** Removes the key pair from the repository.

**Since:** 7.19

**Security:** Requires a valid admin user

**Usage:** DELETE /api/v2/repositories/<repo-name>/keyPairs

**Sample Usage:**

```
curl -X DELETE -uadmin:password "http://localhost:8082/artifactory/api/v2/repositories/debian-local/keyPairs/foo"
```

### 2.9.44 | Download Primary Key

**Description:** Downloads the primary key.

**Since:** 7.19

**Security:** Requires a valid admin user

**Usage:** GET /api/v2/repositories/<repo-name>/keyPairs/primary/public

**Sample Usage:**

```
curl -X GET -uadmin:password "http://localhost:8080/artifactory/api/v2/repositories/debian-local/keyPairs/primary/public"
```

**Sample Response:**

```
-----BEGIN PGP PUBLIC KEY BLOCK-----  
Version: Keybase OpenPGP v1.0.0  
Comment: https://keybase.io/crypto  
x00EYFtBJQEEAL5J3YCUKGvdmZm4Pz4Lv+1sQGV7DXKg9FBN16iBPtkkb8Q0pm0  
WKM4wxtaHVexY85b1fukPcQbwXruJc7N561eRdGI+e4oSkuLuwuh36p61SX1b0  
vEcJ1BQ9RvURNrOr9FZ/kmz6ZXF2BfZcNhKCvtb9FrCFHbdg1gz070J3ABEAAHN  
Gk9tcmkgwml2IDxvbXJpekBqZnJvZy5jb20+wq0EewEKABCFAmBbQSUCGy8DCwkh  
AxUKCAIeAQIXgAAKCRDiyYShXcZUR4DcBACmvthNmrvpIK+k0gomTG4yxuvyw+D  
Pu1pQfbvcPx1Zg09LAFOkZufsvIggcZFoT83A15K+UM0ScE9B/mhRkA1WFCU/K15  
iHkmwVgquZY1gDngnNPDPGU6IFz7m+jY2dCh8h2Pv/L9RXGFz9Y4ap3TwMdESHyz  
dctf4Xs+V120t86NBGBbQSBBACra/j7L0gJ+cXn8/H61y203/Kfvv94M8Q1lpl  
bI8j+i1PrMGaUJV7skxFMKuAR6arwRhGQD1aXaum71GHEMgXjQcH8XWYRRB2nHB6  
0Cb9WcBBU08TNel/33yIGvqUEhyBa+rg8LACzB1NLijnbMrAgOEjSFPTwoz/oWN  
k4E1KQARAQABwsCCBBgBcgAPBQJgW0E1BQkPCZwAhsuAKcJEOLjhKFdx1RHncae
```

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```
GQEKAAYFAmBbQSACgkQ1cfAo4P7X+F5YwP3SjYhtFo6m+bPpNmWmb252R2EJbgG
2WqemuNwfD+TdUns3m5/14AgDNeLwk6Wq2DXxyromY7xRMS3XqfVOrxEUx6pz06c
E+17L244mOaTBwxw75aFcS4K1Pdt/1tx9yUjXZwUAcg27B+06YYzbFk6e0VnHvW
x6drBMfQG2SAKVPeA/4u2kyNX5fJ0L019MQ9ThrAld1Q+yxrPpQLLm5w6eFY05F1
dxtJpZBpa8vQWqabMwYsY7678P64HzuK0Gg+VnKp+b/WnQ575xgOKUwxzaX8awH
ZS5vYfVDi0gBdPAMS4uzDX4hVdH+RiEspN1lVh01wtb2VwFr//rLh0E+9c5C86N
BGBbQSUBBACT21jFYEKk1GMEcqu6rnMXsf17o6sTbXp/s8cxecz0EQAA7khyVuZ
wM/pj04kNp320m+qGCl/S4+3iHAp5WJOEuxtLG3ajninpuzjG9BjSMzXdbQDV1eK
Z4N21SnJ0oPva1o+hkc8iRxVbJsDjCk55qUw30p64pIjccCa6Dro0PQARAQABwsCD
BBgBCgAPBQJgW0E1BQkPCZwAAhsuAkGEOLJhKFdx1RHnSAEGQEKAAYFAmBbQSUA
CgkQXlwRccpztEU92gP8C8Y/3Fr1G2vK716FZOP5q9NErJZTHFQuFGmpDgyAveEo
3C24aBf6ouIDbRPFB1S2SiM3SfalozAtzpm0Ww7aNomtOF+xS083UML7GaJk81Ge
YqdWhv4znr2QBRgt8r0+DBV66eAI61Q+byyNewezrrr+8TRy0U6r1Xw9AE9oMS40
6QP9F0tSdHak1WrIU9QtwStt6B/MEp3v/08TBb8ouz0sh7WcCGBu2nP1Avw7nRjw
js4ULXME1EW6vk/WD+m+8UcF80kho6aQarJJoKETyVmSQYRw/1BJXP1FXtds16R0
SGZgi5TKHxI9dVjLEnjuuxor+vKkpxeLoxDkYVJN1QUNS0U=
=kJ6g
-----END PGP PUBLIC KEY BLOCK-----
```

## 2.9.45 | Download Secondary Public Key

**Description:** Downloads the secondary key.

**Since:** 7.19

**Security:** Requires a valid admin user

**Usage:** GET /api/v2/repositories/<repo-name>/keyPairs/secondary/public

**Sample Usage:**

```
curl -X GET -uadmin:password "http://localhost:8080/artifactory/api/v2/repositories/debian-local/keyPairs/secondary/public"
```

**Sample Response:**

```
-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: Keybase OpenPGP v1.0.0
Comment: https://keybase.io/crypto
xo0EYFtBjQEEAL5j3YCUKvgdmZm4Pz4Lv+1sQGV7DXkg9FBN16ibPtkkb8Q0pm0
WKM4wxtahVexY85b1fukPcQbwXruJsc7N561eErDbGI+e4oSklUuwuh36p61SX1b0
vEcJ1BQ9RvURNr0r9Fz/kmz6ZXF2BfZcNhCvtb9FrCFHbdg1gz070j3ABEBAAHN
Gk9tmkgwm12IDXvbXjpekBqZnjvZy5jb20+wq0EewEKAbcFAmBbQSUCGy8DCwkh
AxUKCAIEAQIXgAAKCRDiyYShXcZUR4cBACmvthnrMrvpIK+k0gomTG4yxuvyw+d
Pu1pQfbvcPx1Zg09LAf0kZufsvIggcZF0t83A15K+UM0ScE9B/mhRkA1WFCU/k15
iHkmwVgquZY1gDngnNPDPGU61Fz7m+jY2dCh8h2Pv/L9RXGFz9Y4ap3TwMdESHyZ
dctf4Xs+v120t86NBGBbQSUBACra/j7LogJ+cXn8/H61y203/Kfvv94M8Q11p1
b18j+i1PrMGaUJV7skxFMKuAR6arwRhGQD1aXaum71GHEMgXjQch8XWYRRB2nHB6
0Cb9WcBBU08TNeVL/33yIGvqUEhyBa+rg8LACzb1NLijnbMrAgOEjSFptwoz/oWN
k4E1KQARAQABwsCCBbBcgaPBQJgW0E1BQkPCZwAAhsuAkGEOLJhKFdx1RHncae
GQEKAAYFAmBbQSACgkQ1cfAo4P7X+F5YwP3SjYhtFo6m+bPpNmWmb252R2EJbgG
2WqemuNwfD+TdUns3m5/14AgDNeLwk6Wq2DXxyromY7xRMS3XqfVOrxEUx6pz06c
E+17L244mOaTBwxw75aFcS4K1Pdt/1tx9yUjXZwUAcg27B+06YYzbFk6e0VnHvW
x6drBMfQG2SAKVPeA/4u2kyNX5fJ0L019MQ9ThrAld1Q+yxrPpQLLm5w6eFY05F1
dxtJpZBpa8vQWqabMwYsY7678P64HzuK0Gg+VnKp+b/WnQ575xgOKUwxzaX8awH
ZS5vYfVDi0gBdPAMS4uzDX4hVdH+RiEspN1lVh01wtb2VwFr//rLh0E+9c5C86N
BGBbQSUBBACT21jFYEKk1GMEcqu6rnMXsf17o6sTbXp/s8cxecz0EQAA7khyVuZ
wM/pj04kNp320m+qGCl/S4+3iHAp5WJOEuxtLG3ajninpuzjG9BjSMzXdbQDV1eK
Z4N21SnJ0oPva1o+hkc8iRxVbJsDjCk55qUw30p64pIjccCa6Dro0PQARAQABwsCD
BBgBCgAPBQJgW0E1BQkPCZwAAhsuAkGEOLJhKFdx1RHnSAEGQEKAAYFAmBbQSUA
CgkQXlwRccpztEU92gP8C8Y/3Fr1G2vK716FZOP5q9NErJZTHFQuFGmpDgyAveEo
3C24aBf6ouIDbRPFB1S2SiM3SfalozAtzpm0Ww7aNomtOF+xS083UML7GaJk81Ge
YqdWhv4znr2QBRgt8r0+DBV66eAI61Q+byyNewezrrr+8TRy0U6r1Xw9AE9oMS40
6QP9F0tSdHak1WrIU9QtwStt6B/MEp3v/08TBb8ouz0sh7WcCGBu2nP1Avw7nRjw
js4ULXME1EW6vk/WD+m+8UcF80kho6aQarJJoKETyVmSQYRw/1BJXP1FXtds16R0
SGZgi5TKHxI9dVjLEnjuuxor+vKkpxeLoxDkYVJN1QUNS0U=
=kJ6g
-----END PGP PUBLIC KEY BLOCK-----
```

## 2.9.46 | Set Primary Key

**Description:** Sets the Primary Key for the repository.

**Since:** 7.19

**Security:** Requires a valid admin user

**Usage:** POST /api/v2/repositories/<repo-name>/keyPairs/primary

**Sample Usage:**

```
curl -X POST -uadmin:password "http://localhost:8080/artifactory/api/v2/repositories/debian-local/keyPairs/primary" --data-binary 'key-name' --header 'Content-Type: text/plain'
```

## 2.9.47 | Set Secondary Key

**Description:** Sets the secondary key for the repository that will be used as a backup key, in case the primary key has been removed.

**Since:** 7.19

**Security:** Requires a valid admin user

**Usage:** POST /api/v2/repositories/<repo-name>/keyPairs/secondary

**Sample Usage:**

```
curl -X POST -uadmin:password "http://localhost:8080/artifactory/api/v2/repositories/debian-local/keyPairs/secondary" --data-binary 'key-name' --header 'Content-Type: text/plain'
```

## 2.9.48 | Delete Primary Key

**Description:** Deletes the primary key from the repository.

**Since:** 7.19

**Security:** Requires a valid admin user

**Usage:** DELETE /api/v2/repositories/<repo-name>/keyPairs/primary

**Sample Usage:**

```
curl -X DELETE -uadmin:password "http://localhost:8080/artifactory/api/v2/repositories/debian-local/keyPairs/primary" --header 'Content-Type: text/plain'
```

## 2.9.49 | Delete Secondary Key

**Description:** Deletes the secondary key from the repository.

**Since:** 7.19

**Security:** Requires a valid admin user

**Usage:** DELETE /api/v2/repositories/<repo-name>/keyPairs/secondary

**Sample Usage:**

```
curl -X DELETE -uadmin:password "http://localhost:8080/artifactory/api/v2/repositories/debian-local/keyPairs/secondary" --header 'Content-Type: text/plain'
```

## 2.9.50 | Promote

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**Description:** Promotes the secondary key to be the primary key for the repository.

**Since:** 7.19

**Security:** Requires a valid admin user

**Usage:** POST /api/v2/repositories/<repo-name>/keyPairs/promote

**Sample Usage:**

```
curl -X POST -uadmin:password "http://localhost:8080/artifactory/api/v2/repositories/debian-local/keyPairs/promote"
```

### 2.9.51 | Update Key Pair

**Description:** Updates a key pair with new key pairs.

**Since:** 7.19

**Security:** Requires a valid admin user

**Usage:** PUT /api/security/keypair

**Sample Usage:**

```
curl -X PUT -uadmin:password "http://localhost:8080/artifactory/api/security/keypair" --header 'Content-Type: application/json' --data '@json-input'
```

```
{
  "pairName": "alpine-local-key" (mandatory),
  "pairType": "RSA" (mandatory),
  "alias": "artifactory-alpine-local" (mandatory),
  "privateKey": "-----BEGIN PRIVATE KEY-----
MIGEAqEAMBAGByqGSM49AgEGBSuBBAAKBG0wawIBAQQgVcB/UNPxalR9zDYAjQIf
jojUDiQuGnSJrFEEzZPT/92hRANCAASc7UJtgnF/abqWM60T3XNJEzBv5eZ9TdWk
H0M6xpM2q+53wmsN/eYDgtjgBd3DBmHtPilCkiFICXyaA8z9LkJ
-----END PRIVATE KEY-----" (mandatory),
  "publicKey": "-----BEGIN PUBLIC KEY-----
MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIIBcgKCAQEA1yHJxQgsHQREclQu40he
qxTxdi1tHcNvnQtu/UrTkY8wWvgXT+jpveroeWlnzmsY1D193eLI20Rakxb3gA20
Q0Ry4ws8vhaxLQGC74uQR5+/yYrLuTKydFzuPaS1dK19qJPXB8GMdmFOijnXX4SA
jixuHe1WW7kZVtjL7nufvpXkWBGjsfrvsdkNA/5MfxAeBbqPgaq0QMEfxMAN6/R
L5kNepi/Vr4S39Xvf2DzWkTLEK8pcnjNkt9/aafhWqFW7m3HCAII6h/q1QNQKSo
GuH34Q8GsFG30izUENV9avY7hSLq7nggsvkn1NBZtFUcmGoQrtx3FmyYsIC8/R+B
ywIDAQAB
-----END PUBLIC KEY-----" (mandatory),
  "passphrase": "YouShallNotPass"
}
```

**Sample Response:**

```
{
  "pairName": "alpine-local-key" (mandatory),
  "pairType": "RSA" (mandatory),
  "alias": "artifactory-alpine-local" (mandatory),
  "vaultKey": "hashicorp",
  "vaultPublicKey": {"path": "secret/default-gpg-key", "key": "gpg.key.pub"},
}
```

### 2.9.52 | Verify Key Pair

**Description:** Verifies the validity of the key pair.

**Since:** 7.19

**Security:** Requires a valid admin user

**Usage:** POST /api/security/keypair/verify

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## Sample Usage:

```
curl -X POST -uadmin:password "http://localhost:8080/artifactory/api/security/keypair/verify" --header 'Content-Type: application/json' --data '@json-input'

{
  "pairName": "alpine-local-key" (mandatory),
  "pairType": "RSA" (mandatory),
  "alias": "artifactory-alpine-local" (mandatory),
  "privateKey": "-----BEGIN PRIVATE KEY-----
MIGEAgEAMBAQByqGSM49AgEGBSuBBAAKBG0wawIBAQgVcB/UNPxalR9zDYAjQIf
jojUDiQuGnSJrFEezZP/92hRANCAASc7UJtgnF/abqWM60T3XNJEzBv5ez9TdwK
H0M6xpM2q+53wmsN/eYLDgtjgBd3DBmHtPilCkiFICXyaA8z9LkJ
-----END PRIVATE KEY-----" (mandatory),
  "publicKey": "-----BEGIN PUBLIC KEY-----
MIIBIjANBgkqhkiG9w0BAQEFAOCAQ8AMIIBCgKCAQE1yHJxQgsHQREclQu40he
qxTxd1tHcNvnQTu/UrTkY8wWvgXT+jpveroeWnzmSY1DI93eLI20Rakxb3gA20
Q0Ry4ws8vhaxLQGC74uQR5+/yYrLuTKydFzuPaS1dK19qJPXB8GMdmFoijnXX4SA
jixuHLe1WWkZVtjL7nufvpXkWBGjsfrvsdkNA/5MfxAeBbqPgaq0QMEfxMAN6/R
L5kNepi/Vr4S39Xvf2DzWkTLEK8pcnjNkt9/aafhWqFVW7m3HCAII6h/q1QNQKSo
GuH34Q8GsFG30izUENV9avY7hSLq7nggsvkn1NBZtFUcmGoQrtx3FmyYsIC8/R+B
ywIDAQAB
-----END PUBLIC KEY-----" (mandatory),
  "passphrase": "YouShallNotPass"
}
```

## Sample Response:

Key was verified.

## 2.9.53 | Get All Key Pairs

**Description:** Returns details of all the key pairs.

**Since:** 7.19

**Security:** Requires a valid admin user

**Usage:** GET /api/security/keypair

## Sample Usage:

```
curl -X GET -uadmin:password "http://localhost:8080/artifactory/api/security/keypair"
```

## Sample Response:

```
[{
  "alias": "alias1",
  "pairName": "name1",

  "publicKey": "-----BEGIN PUBLIC KEY-----\nMIIBIjANBgkq.....0QIDAQAB\n-----END PUBLIC KEY-----",
  "pairType": "GPG"
}, {
  "alias": "alias2",
  "pairName": "name2",
  "publicKey": "-----BEGIN PUBLIC KEY-----\nMIIBIjANBgkq.....0QIDAQAB\n-----END PUBLIC KEY-----",
  "pairType": "GPG"
}]
```

## 2.9.54 | Get Service ID

**Description:** Provides the service ID of an Artifactory instance or cluster. Up to version 5.5.1, the Artifactory service ID is formatted `jf-artifactory@<id>`. From version 5.5.2 the service ID is formatted `jfrt@<id>`.

**Since:** 5.0.0

**Security:** Requires an admin user

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**Usage:** GET /api/system/service\_id

**Produces:** text/plain

**Sample Usage:**

```
curl -uadmin:password -XGET "http://localhost:8081/artifactory/api/system/service_id"  
  
200  
jfrt@ee27b1d1-534d-4723-80b5-5bd893d19c43
```

### 2.9.55 | Get Certificates

**Description:** Returns a list of installed SSL certificates.

**Since:** 5.4.0

**Security:** Requires an admin user

**Usage:** GET /api/system/security/certificates

**Produces:** application/json

```
[  
 {  
   "certificateAlias" : "<The Certificate Alias>",  
   "issuedTo" : "<The entity to whom the certificate was issued>",  
   "issuedBy" : "<The issuing entity>",  
   "issuedOn" : "<ISO8601 (yyyy-MM-dd'T'HH:mm:ss.SSSZ)>",  
   "validUntil" : "<ISO8601 (yyyy-MM-dd'T'HH:mm:ss.SSSZ)>",  
   "fingerPrint" : "<The certificate's SHA256 fingerprint>"  
 }  
]
```

**Sample Usage:**

```
GET /api/system/security/certificates
```

```
[  
 {  
   "certificateAlias" : "example1",  
   "issuedTo" : "JFrog",  
   "issuedBy" : "Some_CA",  
   "issuedOn" : "Sun May 01 2017 10:00:00 GMT +02:00 (UTC)",  
   "validUntil" : "Sun May 01 2019 10:00:00 GMT +02:00 (UTC)",  
   "fingerPrint" : "ab:cd:ef:gh"  
,  
 {  
   "certificateAlias" : "example2",  
   "issuedTo" : "Cool-Company",  
   "issuedBy" : "Some_Other_CA",  
   "issuedOn" : "Sun May 01 2017 10:00:00 GMT +02:00 (UTC)",  
   "validUntil" : "Sun May 01 2019 10:00:00 GMT +02:00 (UTC)",  
   "fingerPrint" : "ab:cd:ef:gh"  
 }  
]
```

### 2.9.56 | Add Certificate

**Description:** Adds an SSL certificate.

**Since:** 5.4.0

**Security:** Requires an admin user

**Usage:** POST /api/system/security/certificates/{Certificate\_alias} -T {Certificate PEM file}

**Consumes:** application/text

**Produces:** application/json

```
{ "status" : 200,
  "message" : ["The certificates were successfully installed"]
}
```

## 2.9.57 | Delete Certificate

**Description:** Deletes an SSL certificate.

**Since:** 5.4.0

**Security:** Requires an admin user

**Usage:** DELETE /api/system/security/certificates/{Certificate\_alias}

**Produces:** application/json

**Sample Usage:**

```
DELETE /api/security/certificates/cert1
```

**Response:**

```
{
  "status" : 200,
  "message" : "The certificates were successfully deleted"
}
```

## 2.9.58 | Deprecated Security APIs

In the list of APIs below, only the APIs that have already been replaced by new Security APIs will be marked as deprecated.

### 2.9.58.1 | Get Users

#### Note

From Artifactory release 7.49.3, this API is being replaced by the new SECURITY APIs available in the JFrog Platform.

**Description:** Get the users list

**Since:** 2.4.0

**Notes:** Requires Artifactory Pro

- To support spaces in the User or Group or Permission names, a Plus symbol ('+') is automatically placed when there is a space. This is set by default as the artifactory.security.api.plus.insteadof.space property is set to true. If you want to use the + (plus) symbol, set the artifactory.security.api.plus.insteadof.space to false.

**Security:** Requires an admin user

**Usage:** GET /api/security/users

**Produces:** application/json (application/vnd.org.jfrog.artifactory.security.Users+json)

**Sample Output:**

```
GET /api/security/users
[
  {
    "name": "davids"
    "uri" : "http://localhost:8081/artifactory/api/security/users/davids"
    "realm" : "internal"
  },
  {
    "name": "danl"
```

## JFrog REST APIs Displayed in the header

```
"uri" : "http://localhost:8081/artifactory/api/security/users/dan1"  
"realm" : "ldap"  
}  
]
```

### 2.9.58.2 | Create or Replace User

#### Note

From Artifactory release 7.49.3, this API is being replaced by the [new SECURITY APIs](#) available in the JFrog Platform.

**Description:** Creates a new user in Artifactory or replaces an existing user

**Since:** 2.4.0

**Notes:** Requires Artifactory Pro

Missing values will be set to the default values as defined by the consumed type.

**Security:** Requires an admin user

**Usage:** PUT /api/security/users/{userName}

**Consumes:** application/json (application/vnd.org.jfrog.artifactory.security.User+json)

**Sample Usage:**

```
PUT /api/security/users/davids  
{  
user.json  
}
```

### 2.9.58.3 | Update User

#### Note

From Artifactory release 7.49.3, this API is being replaced by the [new SECURITY APIs](#) available in the JFrog Platform.

**Description:** Updates an existing user in Artifactory with the provided user details.

**Since:** 2.4.0

**Notes:** Requires Artifactory Pro

- Missing values will be set to the default values as defined by the consumed type

- To support spaces in the User or Group or Permission names, a Plus symbol ('+') is automatically placed when there is a space. This is set by default as the `artifactory.security.api.plus.insteadof.space` property is set to true. If you want to use the + (plus) symbol, set the `artifactory.security.api.plus.insteadof.space` to false.

**Security:** Requires an admin user

**Usage:** POST /api/security/users/{userName}

**Consumes:** application/json (application/vnd.org.jfrog.artifactory.security.User+json)

**Sample Usage:**

```
POST /api/security/users/davids  
{  
user.json  
}
```

## JFrog REST APIs Displayed in the header

### 2.9.58.4 | Delete User

#### Note

From Artifactory release 7.49.3, this API is being replaced by the new SECURITY APIs available in the JFrog Platform.

**Description:** Removes an Artifactory user.

**Since:** 2.4.0

**Notes:** Requires Artifactory Pro

- To support spaces in User or Group or Permission names, a Plus symbol ('+') is automatically placed when there is a space. This is set by default as the `artifactory.security.api.plus.insteadof.space` property is set to true. If you want to use the + (plus) symbol, set the `artifactory.security.api.plus.insteadof.space` to false.

**Security:** Requires an admin user

**Usage:** `DELETE /api/security/users/{userName}`

**Produces:** application/text

**Sample Usage:**

```
DELETE /api/security/users/davids
```

User 'davids' has been removed successfully.

### 2.9.58.5 | Expire Password for a Single User

#### Note

From Artifactory release 7.49.3, this API is being replaced by the new SECURITY APIs available in the JFrog Platform.

**Description:** Expires a user's password

**Since:** 4.4.2

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

**Usage:** `POST /api/security/users/authorization/expirePassword/{userName}`

**Sample Usage:**

```
POST /api/security/users/authorization/expirePassword/davids
```

### 2.9.58.6 | Change Password

#### Note

From Artifactory release 7.49.3, this API is being replaced by the new SECURITY APIs available in the JFrog Platform.

**Description:** Changes a user's password

**Since:** 4.4.2

**Notes:** Requires Artifactory Pro

**Security:** Admin can apply this method to all users, and each (non-anonymous) user can use this method to change their own password.

**Usage:** `POST /api/security/users/authorization/changePassword -H "Content-type: application/json" -d ' {"userN`ame" : "{user}" , "oldPassword" : "{old password}" , "newPassword1" : "{new password}" , "newPassword2" : "{verify new password}" }

# JFrog REST APIs Displayed in the header

**Produces:** application/text

## Sample Usage:

```
POST /api/security/users/authorization/changePassword -H "Content-type: application/json" -d '{ "userName" : "davids", "oldPassword" : "op", "newPassword1" : "np", "newPassword2" : "np" }'
```

## 2.9.58.7 | Unlock Locked Out User

### Note

From Artifactory release 7.49.3, this API is being replaced by the new SECURITY APIs available in the JFrog Platform.

**Description:** Unlocks a single user that was locked out due to recurrent incorrect login attempts.

**Security:** Requires a valid admin user

**Usage:** POST /api/security/unlockUsers/{userN<sup>ame</sup>}

**Produces:** application/text

**Since:** 4.4

## Sample Usage:

```
POST /api/security/unlockUsers/{userName}
```

## 2.9.58.8 | Get Groups

### Note

From Artifactory release 7.49.3, this API is being replaced by the new SECURITY APIs available in the JFrog Platform.

**Description:** Get the groups list

**Since:** 2.4.0

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user

- To support spaces in the User or Group or Permission names, a Plus symbol ('+') is automatically placed when there is a space. This is set by default as the artifactory.security.api.plus.insteadof.space property is set to true. If you want to use the + (plus) symbol, set the artifactory.security.api.plus.insteadof.space to false.

**Usage:** GET /api/security/groups

**Produces:** application/json (application/vnd.org.jfrog.artifactory.security.Users+json), application/json (application/vnd.org.jfrog.artifactory.security.Groups+json), application/json (application/vnd.org.jfrog.artifactory.security.PermissionTargets+json)

## Sample Output:

```
GET /api/security/groups
[
  {
    "name": "readers",
    "uri" : "http://localhost:8081/artifactory/api/security/groups/readers"
  },
  {
    "name": "tech-leads",
    "uri" : "http://localhost:8081/artifactory/api/security/groups/tech-leads"
  }
]
```

## JFrog REST APIs Displayed in the header

### 2.9.58.9 | Get Group Details

#### Note

From Artifactory release 7.49.3, this API is being replaced by the new SECURITY APIs available in the JFrog Platform.

**Description:** Get the details of an Artifactory Group

**Since:** 2.4.0

**Notes:** Requires Artifactory Pro

From version 6.13, you can use the `includeUsers` parameter (`includeUsers=true`) to get the users details.

**Security:** Requires an admin user

**Usage:** GET /api/security/groups/{groupName}

**Produces:** application/json (application/vnd.org.jfrog.artifactory.security.Group+json)

#### Sample Output:

```
GET /api/security/groups/dev-leads
{
group.json
}
```

### 2.9.58.10 | Create or Replace Group

#### Note

From Artifactory release 7.49.3, this API is being replaced by the new SECURITY APIs available in the JFrog Platform.

**Description:** Creates a new group in Artifactory or replaces an existing group

**Since:** 2.4.0

**Notes:** Requires Artifactory Pro

- Missing values will be set to the default values as defined by the consumed type.

- To support spaces in the User or Group or Permission names, a Plus symbol ('+') is automatically placed when there is a space. This is set by default as the `artifactory.security.api.plus.insteadof.space` property is set to true. If you want to use the + (plus) symbol, set the `artifactory.security.api.plus.insteadof.space` to false.

**Security:** Requires an admin user

**Usage:** PUT /api/security/groups/{groupName}

**Consumes:** application/json (application/vnd.org.jfrog.artifactory.security.Group+json)

#### Sample Usage:

```
PUT /api/security/groups
{
group.json
}
```

### 2.9.58.11 | Update Group

#### Note

From Artifactory release 7.49.3, this API is being replaced by the new SECURITY APIs available in the JFrog Platform.

**Description:** Updates an existing group in Artifactory with the provided group details.

## JFrog REST APIs Displayed in the header

**Since:** 2.4.0

**Notes:** Requires Artifactory Pro

- To support spaces in the User or Group or Permission names, a Plus symbol ('+') is automatically placed when there is a space. This is set by default as the `artifactory.security.api.plus.insteadof.space` property is set to true. If you want to use the + (plus) symbol, set the `artifactory.security.api.plus.insteadof.space` to false.

- From Artifactory 7.15.3, you can enforce using lower case characters in user names when associating users to groups by setting `thevalidate.lowercase.username.on.grouptottrue`. The default is set to false. When set to true, an error will be generated if an upper case character is used in a user name.

**Security:** Requires an admin user

**Usage:** POST /api/security/groups/{groupName}

**Consumes:** application/json (application/vnd.org.jfrog.artifactory.security.Group+json)

**Sample Usage:**

```
POST /api/security/groups/dev-leads
{
group.json
}
```

### 2.9.58.12 | Delete Group

#### Note

From Artifactory release 7.49.3, this API is being replaced by the new SECURITY APIs available in the JFrog Platform.

**Description:** Removes an Artifactory group.

**Since:** 2.4.0

**Notes:** Requires Artifactory Pro

- To support spaces in the User or Group or Permission names, a Plus symbol ('+') is automatically placed when there is a space. This is set by default as the `artifactory.security.api.plus.insteadof.space` property is set to true. If you want to use the + (plus) symbol, set the `artifactory.security.api.plus.insteadof.space` to false.

**Security:** Requires an admin user

**Usage:** DELETE /api/security/groups/{groupName}

**Produces:** application/text

**Sample Usage:**

```
DELETE /api/security/groups/dev-leads
```

Group 'dev-leads' has been removed successfully.

### 2.9.58.13 | Create Token (Deprecated)

#### Note

This API is being deprecated and replaced by the Access Tokens API.

**Description:** Creates an access token

**Since:** 5.0.0

**Security:** Requires a valid user **Usage:** POST /api/security/token

**Content-Type:** application/x-www-form-urlencoded

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**Produces:** application/json

```
{  
    "access_token": "<the access token>",  
    "expires_in": <Validity period in seconds>,  
    "scope": "<access scope>",  
    "token_type": "Bearer",  
    "refresh_token": "<the refresh token if access_token is refreshable>"  
}
```

## Sample Usage:

```
curl -uadmin:password -XPOST "http://localhost:8081/artifactory/api/security/token" -d "username=johnq" -d "scope=member-of-groups:readers"
```

```
200  
{  
    "access_token": "adsdgbtybbeeyh...",  
    "expires_in": 3600,  
    "scope": "api:* member-of-groups:readers",  
    "token_type": "Bearer",  
    "refresh_token": "fgsfsgsdugh8dgu9s8gy9hsg..."  
}
```

This endpoint takes the following parameters:

# JFrog REST APIs Displayed in the header

grant_type	[Optional, default: "client_credentials"]  The grant type used to authenticate the request. In this case, the only value supported is "client_credentials" which is also the default value if this parameter is not specified.
username	The user name for which this token is created. If the user does not exist, a transient user is created. Non-admin users can only create tokens for themselves so they must specify their own username.  If the user does not exist, the member-of-groups scope token must be provided (e.g. member-of-groups: g1, g2, g3...)
scope	The scope to assign to the token provided as a space-separated list of scope tokens. Currently there are three possible scope tokens: <ul style="list-style-type: none"><li>"api:*" - indicates that the token grants access to REST API calls. This is always granted by default whether specified in the call or not.</li><li>member-of-groups:[&lt;group-name&gt;] - indicates the groups that the token is associated with (e.g.member-of-groups: g1, g2, g3...). The token grants access according to the permission targets specified for the groups listed.</li></ul>
	<b>Space in a group name</b>  If any of the group names includes a space character, the whole value should be enclosed in escaped quotation marks. For example:  <code>scope=member-of-groups:\\"readers,test group\\"</code>  Specify "*" for group-name to indicate that this is a <b>"user-scoped token"</b> , i.e., the token provides the same access privileges that the current subject, as specified in the username parameter, has, and is therefore evaluated dynamically.  A non-admin user can only provide a scope that is a subset of the groups to which the user belongs. <ul style="list-style-type: none"><li>"jfrt@&lt;instance-id&gt;:admin" - provides admin privileges on the specified Artifactory instance. This is only available for administrators.</li></ul>
expires_in	[Optional, default: 3600]  The time in seconds for which the token will be valid. To specify a token that never expires, set to zero. Non-admin can only set a value that is equal to or less than the default 3600.
refreshable	[Optional, default: false]  If true, this token is refreshable and the refresh token can be used to replace it with a new token once it expires.
audience	[Optional, default: Only the service ID of the Artifactory instance that created the token]  A space-separate list of the other Artifactory instances or services that should accept this token identified by their Artifactory Service IDs as obtained from the Get Server ID endpoint.  In case you want the token to be accepted by all Artifactory instances you may use the following audience parameter "audience=jfrt@*".

# JFrog REST APIs Displayed in the header

## Note

This API is being deprecated and replaced by the [Access Tokens API](#).

**Description:** Refresh an access token to extend its validity. If only the access token and the refresh token are provided (and no other parameters), this pair is used for authentication. If username or any other parameter is provided, then the request must be authenticated by a token that grants admin permissions.

**Since:** 5.0.0

**Security:** Requires a valid user (unless both access token and refresh token are provided)

**Usage:** POST /api/security/token

**Content-Type:** application/x-www-form-urlencoded

**Produces:** application/json (refer to Create Token)

### Sample Usage:

```
curl -XPOST "http://localhost:8081/artifactory/api/security/token" -d "grant_type=refresh_token" -d "refresh_token=fgsg53t3g..." -d "access_token=gsfdgw35gt..."
```

200 (Success) As in Create Token

400 (Error) If the token was created by a different Artifactory instance (and hence cannot be refreshed)

This endpoint takes the following parameters:

grant_type	Should be set to refresh_token.
refresh_token	The refresh token of the access token that needs to be refreshed.
access_token	The access token to refresh.
username	Refer to Create Token.  Note: access_token and username are mutually exclusive, so only one of these parameters should be specified.
scope	If access_token is provided, the new token is created with the same settings as that token.
expires_in	
refreshable	
audience	

2.9.58.15 | [Get Tokens \(Deprecated\)](#)

## Note

This API is being deprecated and replaced by the [Access Tokens API](#).

## JFrog REST APIs Displayed in the header

**Description:** Get a list of all tokens created by an Artifactory instance

**Since:** 5.0.0

**Security:** Requires an admin user

**Usage:** GET /api/security/token

**Content-Type:** application/x-www-form-urlencoded

**Produces:** application/json

```
{  
  "tokens": [  
    {  
      "token_id": "<the token id>",  
      "issuer": "<the service ID of the issuing Artifactory instance>",  
      "subject": "<subject>",  
      "expiry": <time when token expires as seconds since 00:00:00 1/1/1970>,  
      "refreshable": <true | false>,  
      "issued_at": <time issued as seconds since 00:00:00 1/1/1970>,  
    }, ...  
  ]  
}
```

**Sample Usage:**

```
curl -uadmin:password -XGET "http://localhost:8081/artifactory/api/security/token"
```

200 OK

```
{  
  "tokens": [  
    {  
      "token_id": "123",  
      "issuer": "jf-artifactory@123123",  
      "subject": "jf-artifactory@123123/users/theusername",  
      "expiry": 145154545,  
      "refreshable": true,  
      "issued_at": 144152345  
    }, ...  
  ]  
}
```

2.9.58.16 | Revoke Token (Deprecated)

### Note

This API is being deprecated and replaced by the [Access Tokens API](#).

**Description:** Revoke an access token by specifying the token or the token\_id

**Since:** 5.0.0

**Security:** Requires an admin user

**Usage:** POST /api/security/token/revoke

**Content-Type:** application/x-www-form-urlencoded

**Produces:** application/json

**Sample Usage:**

```
curl -uadmin:password -XPOST "http://localhost:8081/artifactory/api/security/token/revoke" -d "token=fasdt3..."  
or  
curl -uadmin:password -XPOST "http://localhost:8081/artifactory/api/security/token/revoke" -d "token_id=7e0eec..."
```

200 OK (Also returned if the token was already revoked or non-existent)

## JFrog REST APIs Displayed in the header

400 (Error) If the token was created by a different Artifactory instance (and hence cannot be revoked)

This endpoint can take either of the following parameters:

token	The token to be revoked
token_id	The ID of the token to be revoked

### 2.9.58.17 | Save Security Configuration (Deprecated)

**Description:** Save the security configuration (security.xml). Requires the security.xml file from the same version.

**Since:** From Artifactory 2.2.0 - 6.x.

Deprecated from Artifactory 7.x and above, it is recommended to replace this REST with Export Access Configuration REST API which uses theaccess.bootstrap.json.

**Security:** Requires a valid admin user

**Usage:** POST /api/system/security

**Consumes:** application/xml

**Sample Usage:**

POST /api/system/security

<security.xml/>

## 2.10 | REPOSITORIES

Repositories are managed using the following REST APIs:

# JFrog REST APIs Displayed in the header

- Create Repository
- Create Multiple Repositories
- Check If Repository Exists
- Get Repositories by Type and Project
- Get Batch of Repositories by Name
- Get Repository Configuration
- Get Repository Configuration (v2)
- Get All Repository Configurations
- Get Puppet APIs
- Update Repository Configuration
- Update Multiple Repositories
- Delete Repository
- Remote Repository Configuration (Deprecated)
- Calculate Alpine Repository Metadata
- Calculate CocoaPods Index
- Calculate YUM Repository Metadata
- Calculate NuGet Repository Metadata
- Calculate Npm Repository Metadata
- Calculate Maven Index
- Calculate Maven Metadata
- Generate Maven POM File
- Calculate PyPI Repository Metadata
- Calculate Debian Repository Metadata
- Calculate Cached Remote Debian Repository Coordinates
- Create Debian Snapshot
- Calculate Opkg Repository Metadata
- Calculate Bower Index
- Calculate Helm Chart Index
- Helm Charts Partial Re-Indexing
- Calculate CRAN Repository Metadata
- Move CRAN Archives
- Calculate Cargo Repository Metadata
- Calculate Conda Repository Metadata
- Calculate Conan Repository Metadata
- Calculate Pub Repository Metadata
- Calculate RubyGems Index
- Calculate Swift Index

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- Calculate Terraform Index
- Get VCS Tags
- Get VCS Branches
- Get VCS Refs
- Download a VCS Tag
- Download File within a VCS Tag
- Download a VCS Branch
- Download a VCS Commit
- Download File within a VCS Branch
- Download a VCS Release

#### 2.10.1 | Create Repository

**Description:** Creates a new repository in Artifactory with the provided configuration. Supported by local, remote, virtual, and Federated repositories.

**Since:** 2.3.0

**Notes:**

- Supported JFrog Subscriptions:
  - Local, remote, and virtual repositories require a Pro subscription.
  - Federated repositories are supported from Artifactory 7.18.3 and require an Enterprise X or Enterprise+ subscription.
- If a repository with the specified repoKey already exists, the call fails with a 400 response.
- Missing values are set to the default values as defined by the consumed type spec.
- For a repository to be identified as Smart Remote Repository, you need to set the "enabled" flag to true under "contentSynchronisation" (under [Repository Configuration JSON](#) ).
- To enable CDN Distribution on the repository, set the cdnRedirect flag on the repository. Applies to Artifactory Cloud and requires an Enterprise or Enterprise+ license.

**Security:** Requires an admin user.

**Usage:** PUT /artifactory/api/repositories/{repoKey}

**Consumes:** application/json ([application/vnd.org.jfrog.artifactory.repositories.LocalRepositoryConfiguration+json](#)), application/json ([application/vnd.org.jfrog.artifactory.repositories.RemoteRepositoryConfiguration+json](#)), application/json ([application/vnd.org.jfrog.artifactory.repositories.VirtualRepositoryConfiguration+json](#)), application/json ([application/vnd.org.jfrog.artifactory.repositories.FederatedRepositoryConfiguration+json](#))

**Sample Usage:**

```
PUT /artifactory/api/repositories/libs-release-local
{
repository-config.json
}
```

#### 2.10.2 | Create Multiple Repositories

**Description:** Creates multiple repositories using a batch request. The batch request can contain a mix of different package types and repository types.

**Note**

For additional details and restrictions, see [Create Repository](#).

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## Warning

When creating multiple repositories using a batch request, if one of the repository configurations is invalid, the entire batch request will fail.

**Since:** 7.84.3

**Security:** Requires an admin user.

**Usage:** PUT /artifactory/api/v2/repositories/batch

**Consumes:** application/json (application/vnd.org.jfrog.artifactory.repositories.LocalRepositoryConfiguration+json), application/json (application/vnd.org.jfrog.artifactory.repositories.RemoteRepositoryConfiguration+json), application/json (application/vnd.org.jfrog.artifactory.repositories.VirtualRepositoryConfiguration+json), application/json (application/vnd.org.jfrog.artifactory.repositories.FederatedRepositoryConfiguration+json)

### Sample Request:

```
curl --location --request PUT 'http://{host}:{port}/artifactory/api/v2/repositories/batch' \
--header 'Content-Type: application/json' \
--header 'Authorization: Basic YWRtaW46cGFzc3dvcmQ=' \
--data '[
{
  "key": "wproj-dev-docker-local-1",
  "packageType": "docker",
  "description": "",
  "notes": "",
  "includesPattern": "**/*",
  "excludesPattern": "",
  "rclass": "local"
},
{
  "key": "wproj-dev-docker-local-2",
  "packageType": "docker",
  "description": "",
  "notes": "",
  "includesPattern": "**/*",
  "excludesPattern": "",
  "rclass": "local"
}
]'
```

## Important

It is mandatory to define the key for each repository in the batch request.

### Sample Response:

```
Successfully created repository 'wproj-dev-docker-local-1'
```

```
Successfully created repository 'wproj-dev-docker-local-2'
```

### Status Codes:

Code	Description
201	Repositories created successfully
400	Bad request; batch limit exceeded; mandatory keys not configured
409	Repository key conflict

# JFrog REST APIs Displayed in the header

Code	Description
500	Internal server error

## 2.10.3 | Check If Repository Exists

**Description:** This REST API checks if repositories exist that match the repository types and the project key specified in the query parameters.

**Since:** Artifactory 7.103.0

**Security:** Requires an admin user.

**Produces:** application/json

**Sample Usage:**

```
GET /artifactory/api/repositories/existence?type=local&type=remote&projectKey=my-proj-1
{
  "exists": true,
  "matchingRepoTypes": ["LOCAL", "REMOTE"],
  "projectKey": "my-proj-1"
}
```

**Query Parameters:**

Name	Type	Description
projectKey	string	The key to the project in which you want to search. If not provided, the API checks all repositories in all projects.
type	enum	<p>The type of repository to search for. This parameter can be specified in the query more than once and can be one of the following values:</p> <ul style="list-style-type: none"><li>• local</li><li>• remote</li><li>• virtual</li><li>• federated</li><li>• releaseBundle</li></ul> <p>If not specified, the endpoint checks for repositories of all types.</p>

The response includes the following information:

Name	Description
exists	Indicates if any repository exists for the specified repository types and project key.

Name	Description
matchingRepoTypes	The repository types that were used for the check.
projectKey	The project key used for the check.

## 2.10.4 | Get Repositories by Type and Project

**Description:** Returns a list of minimal repository details for all repositories of the specified type. Filter the results using the following parameters:

- packageType for repositories of a specific package type
- repositoryType for repositories of a specific type
- project for repositories assigned to a specific project

**Note:** Federated repositories are supported from Artifactory 7.18.3 and require an Enterprise X or Enterprise+ subscription.

**Since:** 2.2.0 (packageType option was introduced in version 6.2.0)

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /artifactory/api/repositories[?type=repositoryType (local|remote|virtual|federated|distribution)]||&packageType=bower|cargo|chef|cocoapods|composer|conan|cran|debian|docker|gems|gitlfs|go|gradle|helm|ivy|maven|nuget|opkg|p2|pub|puppet|pypi|rpm|sbt|swift|terraform|vagrant|yum|generic]|&project=projectKey]

**Produces:** application/json (application/vnd.org.jfrog.artifactory.repositories.RepositoryDetailsList+json)

**Sample Output:**

```
GET /artifactory/api/repositories
[
  {
    "key" : "libs-releases-local",
    "type" : "LOCAL",
    "description" : "Local repository for in-house libraries",
    "url" : "http://localhost:8081/artifactory/libs-releases-local",
    "packageType": "Generic"
  }, {
    "key" : "libs-snapshots-local",
    "type" : "LOCAL",
    "description" : "Local repository for in-house snapshots",
    "url" : "http://localhost:8081/artifactory/libs-snapshots-local",
    "packageType": "Maven"
  }
]
```

## 2.10.5 | Get Batch of Repositories by Name

**Description:** Returns a batch of repositories defined by name. The default batch size is 100 items (configurable).

**Since:** 7.84.3

**Security:** Requires an admin user for complete repository configuration. Non-admin users will receive only partial configuration data.

**Usage:** GET /artifactory/api/v2/repositories/batch

**Query Parameters:**

# JFrog REST APIs Displayed in the header

Field	Type	Description
names	string	The repository names to return.

## Sample Request:

```
curl --location 'http://{host}:{port}/artifactory/api/v2/repositories/batch?names=dev-maven-local-1&names=dev-maven-local' \
--header 'Authorization: Basic YWRtaW46cGFzc3dvcmQ='
```

## Sample Response:

```
{
  "wproj-dev-docker-local-1": {
    "key": "wproj-dev-docker-local-1",
    "packageType": "docker",
    "description": "",
    "notes": "",
    "includesPattern": "**/*",
    "excludesPattern": "",
    "repoLayoutRef": "maven-2-default",
    "signedUrlTtl": 90,
    "enableComposerSupport": false,
    "enableNuGetSupport": false,
    "enableGemsSupport": false,
    "enableNpmSupport": false,
    "enableBowerSupport": false,
    "enableChefSupport": false,
    "enableCocoaPodsSupport": false,
    "enableConanSupport": false,
    "enableDebianSupport": false,
    "debianTrivialLayout": false,
    "ddebSupported": false,
    "enablePypiSupport": false,
    "enablePuppetSupport": false,
    "enableDockerSupport": true,
    "dockerApiVersion": "V2",
    "blockPushingSchema1": true,
    "forceNugetAuthentication": false,
    "forceP2Authentication": false,
    "forceConanAuthentication": false,
    "enableVagrantSupport": false,
    "enableGitLfsSupport": false,
    "enableDistRepoSupport": false,
    "priorityResolution": false,
    "environments": [],
    "checksumPolicyType": "client-checksums",
    "handleReleases": true,
    "handleSnapshots": true,
    "maxUniqueSnapshots": 0,
    "maxUniqueTags": 0,
    "snapshotVersionBehavior": "unique",
    "suppressPomConsistencyChecks": false,
    "blackedOut": false,
    "propertySets": [],
    "archiveBrowsingEnabled": false,
    "calculateYumMetadata": false,
    "enableFileListsIndexing": false,
    "yumRootDepth": 0,
    "dockerTagRetention": 1,
    "enableComposerv1Indexing": false,
    "terraformType": "MODULE",
    "encryptStates": true,
    "cargoAnonymousAccess": false,
    "xrayIndex": false,
    "cargoInternalIndex": false,
```

# JFrog REST APIs Displayed in the header

```
"xrayDataTtl": 90,  
"downloadRedirect": false,  
"cdnRedirect": false,  
"rclass": "local"  
},  
"wproj-dev-docker-local-2": {  
    "key": "wproj-dev-docker-local-2",  
    "packageType": "docker",  
    "description": "",  
    "notes": "",  
    "includesPattern": "**/*",  
    "excludesPattern": "",  
    "repoLayoutRef": "maven-2-default",  
    "signedUrlTtl": 90,  
    "enableComposerSupport": false,  
    "enableNuGetSupport": false,  
    "enableGemsSupport": false,  
    "enableNpmSupport": false,  
    "enableBowerSupport": false,  
    "enableChefSupport": false,  
    "enableCocoaPodsSupport": false,  
    "enableConanSupport": false,  
    "enableDebianSupport": false,  
    "debianTrivialLayout": false,  
    "ddebSupported": false,  
    "enablePypiSupport": false,  
    "enablePuppetSupport": false,  
    "enableDockerSupport": true,  
    "dockerApiVersion": "V2",  
    "blockPushingSchema1": true,  
    "forceNugetAuthentication": false,  
    "forceP2Authentication": false,  
    "forceConanAuthentication": false,  
    "enableVagrantSupport": false,  
    "enableGitLfsSupport": false,  
    "enableDistRepoSupport": false,  
    "priorityResolution": false,  
    "environments": [],  
    "checksumPolicyType": "client-checksums",  
    "handleReleases": true,  
    "handleSnapshots": true,  
    "maxUniqueSnapshots": 0,  
    "maxUniqueTags": 0,  
    "snapshotVersionBehavior": "unique",  
    "suppressPomConsistencyChecks": false,  
    "blacklistedOut": false,  
    "propertySets": [],  
    "archiveBrowsingEnabled": false,  
    "calculateYumMetadata": false,  
    "enableFileListsIndexing": false,  
    "yumRootDepth": 0,  
    "dockerTagRetention": 1,  
    "enableComposerV1Indexing": false,  
    "terraformType": "MODULE",  
    "encryptStates": true,  
    "cargoAnonymousAccess": false,  
    "xrayIndex": false,  
    "cargoInternalIndex": false,  
    "xrayDataTtl": 90,  
    "downloadRedirect": false,  
    "cdnRedirect": false,  
    "rclass": "local"  
}  
}
```

## Status Codes:

## JFrog REST APIs Displayed in the header

Code	Description
200	Repository configurations returned by given names
400	Bad request; repository keys are missing; repository item limit exceeded
500	Internal server error

### 2.10.6 | Get Repository Configuration

**Description:** Returns the current configuration of a repository. Supported by local, remote, virtual, and Federated repositories.

**Since:** 2.3.0

#### Supported JFrog subscriptions

- Local, remote, and virtual repositories require a Pro subscription.
- Federated repositories are supported from Artifactory 7.18.3 and require an Enterprise X or Enterprise+ subscription.

**Security:** Requires an admin user for complete repository configuration. Non-admin users will receive only partial configuration data.

**Usage:** GET /artifactory/api/repositories/{repoKey}

**Produces:** application/json (application/vnd.org.jfrog.artifactory.repositories.LocalRepositoryConfiguration+json), application/json (application/vnd.org.jfrog.artifactory.repositories.RemoteRepositoryConfiguration+json)

application/json (application/vnd.org.jfrog.artifactory.repositories.VirtualRepositoryConfiguration+json)

application/vnd.org.jfrog.artifactory.repositories.FederatedRepositoryConfiguration+json

#### Sample Output:

```
GET /artifactory/api/repositories/libs-release-local
{
  repository-config.json
}
```

#### Tip

This API returns a complete list of configuration properties, including properties unrelated to the repository's package type. Use the v2 version of this API to return only those properties that are relevant to the package type.

### 2.10.7 | Get All Repository Configurations

**Description:** Returns a list of all repository configurations.

**Since:** 7.61.3

**Security:** Requires a user with admin permissions.

**Usage:** GET /api/repositories/configurations

**Produces:** application/json (application/vnd.org.jfrog.artifactory.repositories..RepositoryConfigurationsList+json)

#### Sample Output:

## JFrog REST APIs Displayed in the header

```
GET /api/repositories/configurations
{
  "LOCAL": [
    {
      "key": "example-repo-local",
      "packageType": "generic",
      "description": "Example artifactory repository",
      "notes": "",
      "includesPattern": "**/*",
      "excludesPattern": "",
      "repoLayoutRef": "simple-default",
      "signedUrlTtl": 90,
      "priorityResolution": false,
      "projectKey": "default",
      "environments": [],
      "blacklisted": false,
      "propertySets": [],
      "archiveBrowsingEnabled": false,
      "xrayDataTtl": 90,
      "downloadRedirect": false,
      "cdnRedirect": false,
      "xrayIndex": false,
      "rclass": "local"
    }
  ],
  "REMOTE": [
    // remote repository configurations...
  ],
  "VIRTUAL": [
    // virtual repository configurations...
  ],
  "FEDERATED": [
    // federated repository configurations...
  ],
  "RELEASE_BUNDLE": [
    // release bundle repository configurations...
  ]
}
```

### 2.10.8 | Get Puppet APIs

The Get Puppet APIs include the following:

- [Get Puppet Modules](#)
- [Get Puppet Module Info](#)
- [Get Puppet Releases](#)
- [Get Puppet Release Info](#)

#### 2.10.8.1 | Get Puppet Modules

**Description:** Returns a list of all Puppet modules hosted by the specified repository. Results are paginated and all of the parameters in the pagination section are optional.

**Notes:** Requires Artifactory Pro. This endpoint will work only on local and remote repositories.

**Usage:** GET /api/puppet/{repoKey}/v3/modules

**Security:** Requires a privileged user (can be anonymous)

**Produces:** application/json

Click here to expand...

```
{
  "total": 0,
```

# JFrog REST APIs Displayed in the header

```
"limit": 0,  
"offset": 0,  
"current": "uri",  
"next": "uri",  
"previous": "uri",  
"results": [  
  {  
    "uri": "uri",  
    "name": "",  
    "downloads": 0,  
    "created_at": "date-time",  
    "updated_at": "date-time",  
    "supported": false,  
    "owner": {  
      "uri": "",  
      "username": ""  
    },  
    "current_release": {  
      "uri": "",  
      "version": "",  
      "module": "object",  
      "metadata": "object",  
      "tags": [  
        ""  
      ],  
      "supported": false,  
      "file_size": 0,  
      "file_md5": "",  
      "downloads": 0,  
      "readme": "",  
      "changelog": "",  
      "license": "",  
      "created_at": "date-time",  
      "updated_at": "date-time",  
      "deleted_at": "date-time"  
    },  
    "releases": [  
      {  
        "uri": "uri",  
        "version": ""  
      }  
    ],  
    "homepage_url": "uri",  
    "issues_url": "uri"  
  }  
]
```

## Sample Usage:

```
GET /api/puppet/puppet-local/v3/modules/  
Response:  
{  
  "pagination" : {  
    "limit" : 20,  
    "offset" : 0,  
    "first" : "/v3/modules?limit=20&offset=0",  
    "previous" : null,  
    "current" : "/v3/modules?limit=20&offset=0",  
    "next" : null,  
    "total" : 1  
  },  
  "results" : [ {  
    "uri" : "/v3/modules/maestrodev-wget",  
    "slug" : "maestrodev-wget",  
    "name" : "wget",  
    "downloads" : 0,  
    "created_at" : "2017-07-16 12:07:715 +0300",  
    "updated_at" : "2017-07-16 12:07:00 +0300",  
    "supported" : false,  
  }]
```

```
"endorsement" : null,  
"module_group" : "base",  
"owner" : {  
    "uri" : "/v3/users/maestrodev",  
    "slug" : "maestrodev",  
    "username" : "maestrodev",  
    "gravatar_id" : null  
},  
"current_release" : {  
    "uri"  
...  
} ]  
}
```

#### 2.10.8.2 | Get Puppet Module Info

**Description:** Returns information about a specific Puppet module.

**Notes:** Requires Artifactory Pro. This endpoint will work only on local and remote repositories.

**Usage:** GET /api/puppet/{repoKey}/v3/modules/{user}-{module}

**Security:** Requires a privileged user (can be anonymous)

**Produces:** application/json

Click here to expand...

```
{  
    "uri": "uri",  
    "name": "",  
    "downloads": 0,  
    "created_at": "date-time",  
    "updated_at": "date-time",  
    "supported": false,  
    "owner": {  
        "uri": "",  
        "username": ""  
    },  
    "current_release": {  
        "uri": "",  
        "version": "",  
        "module": "object",  
        "metadata": "object",  
        "tags": [  
            ""  
        ],  
        "supported": false,  
        "file_size": 0,  
        "file_md5": "",  
        "downloads": 0,  
        "readme": "",  
        "changelog": "",  
        "license": "",  
        "created_at": "date-time",  
        "updated_at": "date-time",  
        "deleted_at": "date-time"  
    },  
    "releases": [  
        {  
            "uri": "uri",  
            "version": ""  
        }  
    ],  
    "homepage_url": "uri",  
    "issues_url": "uri"  
}
```

## JFrog REST APIs Displayed in the header

### 2.10.8.3 | Get Puppet Releases

**Description:** Returns a list of all Puppet releases hosted by the specified repository. Results are paginated and all of the parameters in the pagination section are optional.

**Notes:** Requires Artifactory Pro. This endpoint will work only on local and remote repositories.

**Usage:** GET /api/puppet/{repoKey}/v3/releases

**Security:** Requires a privileged user (can be anonymous)

**Produces:** application/json

```
{  
    "total": 0,  
    "limit": 0,  
    "offset": 0,  
    "current": "uri",  
    "next": "uri",  
    "previous": "uri",  
    "results": [  
        {  
            "uri": "uri",  
            "version": "",  
            "module": {  
                "uri": "",  
                "name": ""  
            },  
            "metadata": "object",  
            "tags": [  
                ""  
            ],  
            "supported": false,  
            "file_size": 0,  
            "file_md5": "",  
            "downloads": 0,  
            "readme": "",  
            "changelog": "",  
            "license": "",  
            "created_at": "date-time",  
            "updated_at": "date-time",  
            "deleted_at": "date-time"  
        }  
    ]  
}
```

### 2.10.8.4 | Get Puppet Release Info

**Description:** Returns information about the specific Puppet module's release.

**Notes:** Requires Artifactory Pro. This endpoint will work only on local and remote repositories.

**Usage:** GET /api/puppet/{repoKey}/v3/releases/{user}-{module}-{version}

**Security:** Requires a privileged user (can be anonymous)

**Produces:** application/json

```
{  
    "uri": "uri",  
    "version": "",  
    "module": {  
        "uri": "",  
        "name": ""  
    },  
    "metadata": "object",  
    "tags": [  
        ""  
    ]  
}
```

```
],
"supported": false,
"file_size": 0,
"file_md5": "",
"downloads": 0,
"readme": "",
"changelog": "",
"license": "",
"created_at": "date-time",
"updated_at": "date-time",
"deleted_at": "date-time"
}
```

## 2.10.9 | Update Repository Configuration

**Description:** Updates an existing repository configuration in Artifactory with the provided configuration elements. Supported by local, remote, virtual, and Federated repositories.

**Since:** 2.3.0

### Notes:

- Supported JFrog Subscriptions:
  - Local, remote, and virtual repositories require a Pro subscription.
  - Federated repositories are supported from Artifactory 7.18.3 and require an Enterprise or Enterprise+ subscription.
- To enable CDN Distribution on the repository, set the `cdnRedirect` flag on the repository. Applies to Artifactory Cloud and requires an Enterprise or Enterprise+ license.
- The class of a repository the `rclass` attribute cannot be updated.

**Security:** Requires an admin user

**Usage:** POST /artifactory/api/repositories/{repoKey} -H "Content-Type: application/json"

**Consumes:** application/json (application/vnd.org.jfrog.artifactory.repositories.LocalRepositoryConfiguration+json), application/json (application/vnd.org.jfrog.artifactory.repositories.RemoteRepositoryConfiguration+json), application/json (application/vnd.org.jfrog.artifactory.repositories.VirtualRepositoryConfiguration+json), application/json (application/vnd.org.jfrog.artifactory.repositories.FederatedRepositoryConfiguration+json)

### Sample Usage:

```
POST /artifactory/api/repositories/lib-releases-local -H "Content-Type: application/json"
{
  repository-config.json
}
```

## 2.10.10 | Update Multiple Repositories

**Description:** Updates the configuration of multiple repositories using a batch request. The batch request can contain a mix of different package types and repository types.

### Note

For additional details and restrictions, see [Create Repository](#).

### Warning

When updating multiple repositories using a batch request, if one of the repository configurations is invalid, the entire batch request will fail.

**Since:** 7.104.2

## JFrog REST APIs Displayed in the header

**Security:** Requires an admin user.

**Usage:** POST /artifactory/api/v2/repositories/batch

**Consumes:** application/json (application/vnd.org.jfrog.artifactory.repositories.LocalRepositoryConfiguration+json), application/json (application/vnd.org.jfrog.artifactory.repositories.RemoteRepositoryConfiguration+json), application/json (application/vnd.org.jfrog.artifactory.repositories.VirtualRepositoryConfiguration+json), application/json (application/vnd.org.jfrog.artifactory.repositories.FederatedRepositoryConfiguration+json)

### Sample Request:

```
curl --location --request POST 'http://{host}:{port}/artifactory/api/v2/repositories/batch' \
--header 'Content-Type: application/json' \
--header 'Authorization: Basic YWRtaW46cGFzc3dvcmQ=' \
--data '[
{
  "key": "wproj-dev-docker-local-1",
  "packageType": "docker",
  "description": "local-1",
  "notes": "belongs to team 1",
  "includesPattern": "**/*",
  "excludesPattern": "",
  "rclass": "local"
},
{
  "key": "wproj-dev-docker-local-2",
  "packageType": "docker",
  "description": "local-2",
  "notes": "belongs to team 2",
  "includesPattern": "**/*",
  "excludesPattern": "",
  "rclass": "local"
}
]'
```

### Sample Response:

Repositories updated successfully

### Status Codes:

Code	Description
200	Repositories updated successfully
400	Bad request; batch limit exceeded; mandatory keys not configured
500	Internal server error

### 2.10.11 | Delete Repository

**Description:** Removes a repository configuration together with the whole repository content. Supported by local, remote, virtual and federated repositories.

**Since:** 2.3.0

### Notes:

Supported JFrog Subscriptions:

## JFrog REST APIs Displayed in the header

- Local, remote, and virtual repositories require a Pro subscription.
- Federated repositories are supported from Artifactory 7.18.3 and require an Enterprise or Enterprise+ subscription.

**Security:** Requires an admin user

**Usage:** DELETE /artifactory/api/repositories/{repoKey}

**Produces:** application/text

**Sample Usage:**

```
DELETE /artifactory/api/repositories/libs-release-local
```

Repository 'libs-release-local' and all its content have been removed successfully.

### 2.10.12 | Remote Repository Configuration (Deprecated)

**Description:** Repository Configuration (Deprecated)

Returns the shared configuration of a remote repository.

**Since:** 2.2.0

**Notes:** This API is **deprecated**. Use the Get Repository Configuration API instead.

**Security:** Requires a valid user for a shared remote repository and admin user for anything else. Shared remote repository data will be sanitized for security when non-admin user is used.

**Usage:** GET /artifactory/api/repositories/{remoteRepoName}/configuration

**Produces:** application/json (application/vnd.org.jfrog.artifactory.repositories.SharedRemoteRepositoryConfiguration+json)

**Sample Output:**

```
GET /artifactory/api/repositories/remote-repo/configuration
{
  repository-config.json
}
```

### 2.10.13 | Calculate Alpine Repository Metadata

**Description:** Calculates/recalculates the metadata index for this repository, based on the Alpine packages in it.

Calculation is asynchronous. Please refer to Alpine Linux Repositories for more details. Supported by local repositories only.

**Notes:** Requires Artifactory Pro.

**Security:** Requires a valid admin user or a user with Manage permissions.

**Usage:** POST /artifactory/api/alpine/{repoKey}/reindex

**Produces:** application/text

**Since:** 7.6

**Sample Output:**

```
POST /artifactory/api/alpine/alpine-local/reindex
```

Reindexing of Alpine repository alpine-local was scheduled to run.

### 2.10.14 | Calculate CocoaPods Index

**Description:** Calculates a CocoaPods index for the specified repository.

## JFrog REST APIs Displayed in the header

**Notes:** Requires Artifactory Pro.

**Security:** Requires a valid admin user.

**Usage:** POST /artifactory/api/cocoapods/{repoKey}/reindex

**Produces:** application/text

**Since:** 7.1

### Sample Output:

```
POST /artifactory/api/cocoapods/cocoapods-local/reindex
```

```
Reindexing of CocoaPods repository cocoa-local was scheduled to run.
```

## 2.10.15 | Calculate YUM Repository Metadata

**Description:** For Local repositories: calculates/recalculates the YUM metadata for this repository, based on the RPM package currently hosted in the repository. Supported by local, virtual, and Federated repositories.

Calculation can be synchronous (the default) or asynchronous.

For Virtual repositories, calculates the merged metadata from all aggregated repositories on the specified path. The **path** parameter must be passed for virtual calculation.

See the YUM integration documentation for more details.

**Notes:** Requires Artifactory Pro. Immediate calculation requests cannot be called on repositories with automatic asynchronous calculations enabled (applies to local repositories only). The **path** parameter applies to virtual repositories only.

**Security:** Up to version 4.8 , requires a valid admin user. From version 4.8 only requires the set of permissions assumed by Manage (Manage + Delete/Overwrite + Deploy/Cache + Annotate + Read).

**Usage:** POST /artifactory/api/yum/{repoKey}[?path={path to repodata dir}][&async=0/1]

**Headers (Optional):** X-GPG-PASSPHRASE: passphrase

**Produces:** application/text

**Since:** 2.3.5

### Sample Output:

```
POST /artifactory/api/yum/yum-local?async=1
```

```
POST /artifactory/api/yum/yum-virtual?path=7/os/x86_64&async=1
```

```
YUM metadata calculation for repository 'yum-local' accepted.
```

## 2.10.16 | Calculate NuGet Repository Metadata

**Description:** Recalculates all the NuGet packages for this repository (local/cache/virtual), and re-annotate the NuGet properties for each NuGet package according to its internal nuspec file.

See the NuGet Integration documentation for more details.

Supported by local, local-cache, remote and virtual repositories.

**Notes:** Requires Artifactory Pro.

**Security:** Up to version 4.8 , requires a valid admin user. From version 4.8 only requires the set of permissions assumed by Manage (Manage + Delete/Overwrite + Deploy/Cache + Annotate + Read).

**Usage:** POST /artifactory/api/nuget/{repoKey}/reindex

**Produces:** application/text

**Since:** 3.0.3

**Sample Output:**

```
POST /artifactory/api/nuget/nuget-local/reindex

NuGet reindex calculation for repository 'nuget-local' accepted.
```

## 2.10.17 | Calculate Npm Repository Metadata

**Description:** Recalculates the npm search index for this repository (local/virtual). See the npm integration documentation for more details.  
Supported by local and virtual repositories.

**Notes:** Requires Artifactory Pro.

**Security:** Up to version 4.8 , requires a valid admin user. From version 4.8 only requires the set of permissions assumed by Manage (Manage + Delete/Overwrite + Deploy/Cache + Annotate + Read).

**Usage:** POST /artifactory/api/npm/{repoKey}/reindex

**Produces:** application/text

**Since:** 3.2.0

**Sample Output:**

```
POST /artifactory/api/npm/npm-local/reindex

Recalculating index for npm repository npm-local scheduled to run
```

## 2.10.18 | Calculate Maven Index

**Description:** Calculates/caches a Maven index for the specified repositories.

For a virtual repository specify all underlying repositories that you want the aggregated index to include.

Calculation can be forced, which for remote repositories will cause downloading of a remote index even if a locally cached index has not yet expired; and index recalculation based on the cache on any failure to download the remote index, including communication errors (the default behavior is to only use the cache when a remote index cannot be found and returns a 404). Forcing has no effect on local repositories index calculation.

See the Maven Indexer documentation for more details.

**Notes:** Requires Artifactory Pro.

**Security:** Requires a valid admin user.

**Usage:** POST /artifactory/api/maven[?repos=x[,y]][&force=0/1]

**Produces:** application/text

**Since:** 2.5.0

**Sample Output:**

```
POST /artifactory/api/maven?repos=libs-release-local,ext-release-local&force=1

Maven index refresh for repositories '[libs-release-local, ext-release-local]' has been accepted.
```

## 2.10.19 | Calculate Maven Metadata

**Description:** Calculates Maven metadata on the specified path (for local repositories only).

The default value of the noneRecursive parameter [sic] is false, meaning that the folder and all its contents will be calculated recursively.

## JFrog REST APIs Displayed in the header

**Security:** Up to version 4.8, requires a valid admin user. From version 4.8, requires the following permissions: Manage, Delete/Overwrite, Deploy/Cache, Annotate, and Read.

**Usage:** POST /artifactory/api/maven/calculateMetadata/{repoKey}/{folder-path}?{noneRecursive=true | false}

**Produces:** application/text

**Since:** 3.0.2

### Sample Output:

```
POST /artifactory/api/maven/calculateMetadata/libs-release-local/org/acme
OK
```

## 2.10.20 | Generate Maven POM File

**Description:** Generates a Maven POM file from an internal Jar or a default POM file.

**Security:** Requires authenticated users. Users must have Delete/Overwrite/Deploy permissions.

**Usage:** POST /artifactory/api/maven/generatePom/{repoKey}/{jar-file-path}

**Produces:** N/A

**Since:** 7.5.0

### Sample Usage:

```
curl -X POST http://admin:password1@localhost:8080/artifactory/api/maven/generatePom/libs-local/org/apache/commons/commons-lang3/3.17.0/commons-lang3-3.17.0.jar
```

## 2.10.21 | Calculate PyPI Repository Metadata

**Description:** Calculates/recalculates the PyPI packages and repository indexes from the artifact metadata in this repository.

The calculation can be synchronous (the default) or asynchronous. Refer to PyPI Repositories for more details. Supported for local repositories only.

**Notes:** Requires Artifactory Pro.

**Security:** Requires a user with Manage permissions.

**Usage:** POST /artifactory/api/pypi/{repoKey}/reindex[?async=0/1]

**Produces:** text/plain

**Since:** 7.0.0

### Sample Output:

```
POST /artifactory/api/pypi/pypi-local/reindex
```

```
Recalculating index for pypi repository pypi-local scheduled to run
```

## 2.10.22 | Calculate Debian Repository Metadata

**Description:** Calculates/recalculates the Packages and Release metadata for this repository, based on the Debian packages in it.

Calculation can be synchronous (the default) or asynchronous. Refer to Debian Repositories for more details. Supported by local repositories only.

From version 4.4, by default, the recalculation process also writes several entries from the Debian package's metadata as properties on all of the artifacts (based on the control file's content).

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This operation may not always be required (for example, if the Debian files are intact and were not modified, only the index needs to be recalculated. The operation is resource intensive and can be disabled by passing the `?writeProps=0` query param.

From version 5.7, the target repository can be a virtual repository.

**Notes:** Requires Artifactory Pro.

**Security:** Up to version 4.8 , requires a valid admin user. From version 4.8 only requires the set of permissions assumed by Manage (Manage + Delete/Overwrite + Deploy/Cache + Annotate + Read).

**Usage:** POST /artifactory/api/deb/reindex/{repoKey} [?async=0/1][?writeProps=0/1]

**Headers (Optionally):** -H X-GPG-PASSPHRASE:passphrase

**Produces:** application/text

**Since:** 3.3

**Sample Output:**

```
POST /artifactory/api/deb/reindex/debian-local
```

```
Recalculating index for Debian repository debian-local scheduled to run.
```

### 2.10.23 | Calculate Cached Remote Debian Repository Coordinates

**Description:** Calculates/recalculates the Debian packages coordinates

Supported by remote-cache repositories only.

From version 6.6.0, The coordinates calculation/recalculation process adds Debian packages the missing coordinates (Architecture, Distribution and Component) as properties, so they could be index if they would be copied/moved to a Debian local repository. Local repository indexing/reindexing requires those properties in order to work.

**Notes:** Requires Artifactory Pro.

**Security:** Manager permissions

**Usage:** POST /artifactory/api/deb/indexCached/{repoKey}

**Produces:** application/text

**Since:** 6.6.0

**Sample Output:**

```
POST /artifactory/api/deb/indexCached/debian-remote-cache
```

```
Recalculating coordinates for Debian cached repository debian-remote-cache is scheduled to run.
```

### 2.10.24 | Create Debian Snapshot

**Description:** Creates Debian Snapshots in the Debian repository in Artifactory.

**Since:** 7.41.x

**Notes:** The following process takes place when running this command:

- The root of the newly created snapshot sub-repository is `/artifactory/api/deb/$repoKey/snapshots/$tag`.
- All the metadata files of the `$srcRepo/dists/$distribution`, including the release and packages file, will be copied to the snapshot folder.
- In the folder, a property called `deb.snapshot.source` is created pointing to the source repository.

**Security:** Requires an authenticated user.

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**Usage:** POST /artifactory/api/deb/\$repoKey/snapshot(?async=1)

**Consumes:** application/json

```
{  
  "tag" : string,  
  "targetRepo" : string,  
  "distribution" :string  
}
```

### Sample Usage:

The following input will create a Debian snapshot named 202203141800 saved under deb-snapshot local repository, containing focal distribution metadata.

POST /artifactory/api/deb/\$repoKey/snapshot(?async=1)

```
{  
  "targetRepo": "deb-snapshots",  
  "distribution": "focal",  
  "tag": "202203141800"  
}
```

### Sample Output:

```
POST /artifactory/api/deb/$repoKey/snapshot  
200 OK  
Successfully saved snapshot to ${targetRepo}/snapshots/${tag}
```

The following response is returned when saving snapshots as async.

```
POST /artifactory/api/deb/$repoKey/snapshot?async=1  
200 OK  
Snapshot save queued for ${targetRepo}/snapshots/${tag}
```

## 2.10.25 | Calculate Opkg Repository Metadata

**Description:** Calculates/recalculates the Packages and Release metadata for this repository, based on the ipk packages in it (in each feed location).

Calculation can be synchronous (the default) or asynchronous. Refer to Opkg Repositories for more details. Supported by local repositories only.

By default, the recalculation process also writes several entries from the ipk package's metadata as properties on all of the artifacts (based on the control file's content).

This operation may not always be required (for example, if the ipk files are intact and were not modified, only the index needs to be recalculated. The operation is resource intensive and can be disabled by passing the ?writeProps=0 query param.

**Notes:** Requires Artifactory Pro.

**Security:** Up to version 4.8

, requires a valid admin user. From version 4.8 only requires the set of permissions assumed by Manage (Manage + Delete/Overwrite + Deploy/Cache + Annotate + Read).

**Usage:** POST /artifactory/api/opkg/reindex/{repoKey} [?async=0/1][?writeProps=0/1]

**Headers (Optionally):** -H X-GPG-PASSPHRASE:passphrase

**Produces:** application/text

**Since:** 4.4

### Sample Output:

POST /artifactory/api/opkg/reindex/opkg-local

Recalculating index for Opkg repository opkg-local scheduled to run.

## 2.10.26 | Calculate Bower Index

**Description:** Recalculates the index for a Bower repository.

**Notes:** Requires Artifactory Pro.

**Security:** Up to version 4.8 , requires a valid admin user. From version 4.8 only requires the set of permissions assumed by Manage (Manage + Delete/Overwrite + Deploy/Cache + Annotate + Read).

**Usage:** POST /artifactory/api/bower/{repoKey}/reindex

**Produces:** application/text

**Since:** 3.6.0

**Sample Output:**

```
POST /artifactory/api/bower/bower-local/reindex
```

```
Bower index for refresh for bower-local has been accepted
```

## 2.10.27 | Calculate Helm Chart Index

**Description:** Calculates Helm chart index on the specified path (local and Federated repositories only).

**Notes:** Requires JFrog Container Registry or Artifactory Pro.

**Security:** Requires the set of permissions assumed by Manage (Manage + Delete/Overwrite + Deploy/Cache + Annotate + Read)

**Usage:** POST /artifactory/api/helm/{repoKey}/reindex

**Produces:** application/text

**Since:** 5.8

**Sample Usage:**

```
POST /artifactory/api/helm/helm-local/reindex
OK
```

## 2.10.28 | Helm Charts Partial Re-Indexing

**Description:** Recalculates partial indexing for the helm repository **helm-local**.

**Security:** Requires the set of permissions assumed by Manage (Manage + Delete/Overwrite + Deploy/Cache + Annotate + Read)

**Usage:** POST /artifactory/api/helm/helm-local/{path-for-partial-reindex}/reindex

**Produces:** application/text

**Since:** Artifactory 7.105.2

**Sample Usage:**

```
POST /artifactory/api/helm/helm-local/org/project/reindex
```

## 2.10.29 | Calculate CRAN Repository Metadata

**Description:** Calculates/recalculates the Packages and Release metadata for this repository, based on the CRAN packages in it.

The calculation can be synchronous (the default) or asynchronous. Refer to CRAN Repositories for more details. Supported by local repositories only.

From version 6.1, by default, the recalculation process also writes several entries from the CRAN package's metadata as properties on all of the artifacts (based on the control file's content).

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**Notes:** Requires Artifactory Pro.

**Security:** Requires the set of permissions assumed by Manage (Manage + Delete/Overwrite + Deploy/Cache + Annotate + Read)

**Usage:** POST /artifactory/api/cran/reindex/cran-local[?async=0/1]

**Produces:** application/text

**Since:** 6.1

### Sample Output:

```
POST /artifactory/api/cran/reindex/cran-local
```

```
Recalculating index for CRAN repository cran-local scheduled to run.
```

## 2.10.30 | Move CRAN Archives

**Description:** Moves the existing archives from the wrong location to the correct location (if the system property is enabled).

**Since:** 7.42.1

**Notes:** Requires Artifactory Pro. Requires that the "cran.archiveMover.enabled" parameter be added to the `Artifactory.yml` file.

**Security:** Requires an admin.

**Usage:** PUT /artifactory/api/v1/cran/<repoKey>/move-archives

**Produces:** application/json

### Sample Request

```
curl -username:password http://<artifactory-instance>/artifactory/api/cran/<repoKey>/move-archives
```

### Sample Response

```
Moved
```

## 2.10.31 | Calculate Cargo Repository Metadata

**Description:** Calculates/recalculates the Cargo packages and release metadata for this repository.

The calculation can be synchronous (the default) or asynchronous. Refer to Cargo Package Registry for more details. Supported for local and remote repositories.

**Notes:** Requires Artifactory Pro.

**Security:** Requires a valid admin user.

**Usage:** POST /artifactory/api/cargo/{repoKey}/reindex[?async=0/1]

**Produces:** application/text

**Since:** 7.17.4

### Sample Output:

```
POST /artifactory/api/cargo/cargo-local/reindex
```

```
Recalculating index for Cargo repository cargo-local scheduled to run.
```

## 2.10.32 | Calculate Conda Repository Metadata

**Description:** Calculates/recalculates the Conda packages and release metadata for this repository.

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The calculation can be synchronous (the default) or asynchronous. Refer to Conda Repositories for more details. Supported for local repositories only.

**Notes:** Requires Artifactory Pro.

**Security:** Requires a valid admin user.

**Usage:** POST /artifactory/api/conda/conda-local/reindex[?async=0/1]

**Produces:** application/text

**Since:** 6.3

**Sample Output:**

```
POST /artifactory/api/conda/conda-local/reindex
```

```
Recalculating index for Conda repository conda-local scheduled to run.
```

### 2.10.33 | Calculate Conan Repository Metadata

**Description:** Calculates/recalculates the Conan packages and release metadata for this repository.

The calculation can be synchronous (the default) or asynchronous. Refer to Conan Repositories for more details. Supported for local repositories only.

**Notes:** Requires Artifactory Pro.

**Security:** Requires a valid admin user.

**Usage:** POST /artifactory/api/conan/conan-local/reindex[?async=0/1]

**Produces:** application/text

**Since:** 6.3

**Sample Output:**

```
POST /artifactory/api/conan/conan-local/reindex
```

```
Recalculating index for Conan repository conan-local scheduled to run.
```

### 2.10.34 | Calculate Pub Repository Metadata

**Description:** Calculates/recalculates the Dart/ Flutter packages and release metadata for this repository.

The calculation is asynchronous. Supported for local and remote repositories.

**Notes:** Requires Artifactory Pro.

**Security:** Requires a valid admin user.

**Usage:** POST /artifactory/api/pub/{repoKey}/reindex[?async=0/1]

**Produces:** application/text

**Since:** 7.31.10

**Sample Output:**

```
POST /artifactory/api/pub/pub-local/reindex
```

### 2.10.35 | Calculate RubyGems Index

**Description:** Calculates RubyGems index on the specified path.

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**Notes:** Requires JFrog Container Registry or Artifactory Pro.

**Security:** Requires the following set of permissions: Manage, Delete/ Overwrite, Deploy/ Cache, Annotate, Read.

**Usage:** POST /artifactory/api/gems/{repoKey}/reindex

**Produces:** application/text

**Since:** 3.6.0

### Sample Output:

```
POST /artifactory/api/gems/gems-local/reindex
```

```
OK
```

## 2.10.36 | Calculate Swift Index

**Description:** Calculates a Swift index for the specified repository.

**Notes:** Requires Artifactory Pro.

**Security:** Requires a valid admin user.

**Usage:** POST /artifactory/api/swift/{repoKey}/reindex

**Produces:** application/text

**Since:** 7.39.4

### Sample Output:

```
POST /artifactory/api/swift/swift-local/reindex
```

```
Reindexing of Swift repository swift-local was scheduled to run.
```

## 2.10.37 | Calculate Terraform Index

**Description:** Calculates Terraform Modules or Providers index for the specified repository.

**Notes:** Requires Artifactory Pro.

**Security:** Requires a valid admin user.

**Usage:** POST /artifactory/api/terraform/{repoKey}/reindex

**Produces:** application/text

**Since:** 7.38.4

### Sample Output:

```
POST /artifactory/api/terraform/terraform-local/reindex
```

```
Reindexing of Terraform repository terraform-local was scheduled to run.
```

## 2.10.38 | Get VCS Tags

**Description:** Lists all VCS tags.

**Since:** 3.6.0

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /artifactory/api/vcs/tags/{repoKey}/{userOrg}/{repo}

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**Produces:** application/json

**Sample Output:**

```
GET /artifactory/api/vcs/tags/github/jquery/jquery
[ {
  "name" : "1.0",
  "commitId" : "bcc8a837055fe720579628d758b7034d6b520f2e",
  "isBranch" : false
}, {
  "name" : "1.0.1",
  "commitId" : "bcc8a837055fe720579628d758b7034d6b520f2e",
  "isBranch" : false
}
...]
```

## 2.10.39 | Get VCS Branches

**Description:** Lists all VCS branches.

**Since:** 3.6.0

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /artifactory/api/vcs/branches/{repoKey}/{userOrg}/{repo}

**Produces:** application/json

**Sample Output:**

```
GET /artifactory/api/vcs/branches/github/jquery/jquery
[ {
  "name" : "1.11-stable",
  "commitId" : "852529c9f148de6df205be01659a79731ce8ebef",
  "isBranch" : true
}, {
  "name" : "1.x-master",
  "commitId" : "73c1ceaf4280bd0318679c1ad832181f3f449814",
  "isBranch" : true
}
...]
```

## 2.10.40 | Get VCS Refs

**Description:** Downloads a VCS Git References file.

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /artifactory/api/vcs/refs/{repoKey}/{userOrg}/{repo}

**Produces:** application/json

**Sample output:**

```
GET /artifactory/api/vcs/refs/github/jquery/jquery
```

```
{
001e# service=git-upload-pack
000001538be4c0e4f89d6c8f780e5937a0534921d8c7815e HEADmulti_ack thin-pack side-band side-band-64k ofs-delta shallow deepen-
since deepen-not deepen-relative no-progress include-tag multi_ack_detailed allow-tip-sha1-in-want allow-reachable-sha1-in-
want no-done symref=HEAD:refs/heads/main filter object-formats=sha1 agent=git/github-32046c9f808f
004490a3c439828e21e291b65d4dfc1da6774d611aaa refs/heads/1.12-stable
0043acb7c49c8d42f601fa347661b1118959079f6b52 refs/heads/2.2-stable
...}
```

#### 2.10.41 | Download a VCS Tag

**Description:** Download a complete tarball (tar.gz/zip, default tar.gz) of a tag.

Downloading can be executed conditionally according to properties by specifying the properties query param. In this case only cached artifacts are searched.

**Since:** 3.6.0

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /artifactory/api/vcs/downloadTag/{repoKey}/{userOrg}/{repo}/{tag-name}?ext=tar.gz/zip (default tar.gz)

**Produces:** application/octet-stream

**Sample Output:**

```
GET /artifactory/api/vcs/downloadTag/github/jquery/2.0.1
<Tag binary content>
```

#### 2.10.42 | Download File within a VCS Tag

**Description:** Download a specific file from within a tag.

**Since:** 3.6.0

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /artifactory/api/vcs/downloadTagFile/{repoKey}/{userOrg}/{repo}/{tag-name}!{file-path}

**Produces:** application/octet-stream

**Sample Output:**

```
GET /artifactory/api/vcs/downloadTagFile/github/jquery/2.0.1!AUTHORS.txt
<AUTHORS.txt content>
```

#### 2.10.43 | Download a VCS Branch

**Description:** Downloads a tarball (tar.gz/zip, default tar.gz) of a complete branch.

Downloading can be executed conditionally according to properties by specifying the properties query param. In this case, only cached artifacts are searched.

**Since:** 3.6.0

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /artifactory/api/vcs/downloadBranch/{repoKey}/{userOrg}/{repo}/{branch-name}?ext=tar.gz/zip[&properties=qa=approved]

**Produces:** application/octet-stream

**Sample Output:**

```
GET /artifactory/api/vcs/downloadBranch/github/jquery/master
<Branch binary content>
```

#### 2.10.44 | Download a VCS Commit

**Description:** Downloads a tarball (tar.gz/zip, default tar.gz) of a complete commit.

**Security:** Requires a privileged user (can be anonymous)

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**Usage:** GET /artifactory/api/vcs/downloadCommit/{repoKey}/{userOrg}/{repo}/{commitId}?ext=tar.gz/zip (default tar.gz)

**Produces:** application/octet-stream

**Sample output:**

```
GET /artifactory/api/vcs/downloadCommit/github/jquery/jquery/02a570fcf5624413ef790a800f6d76ea2b6d69dd
<Commit binary content>
```

### 2.10.45 | Download File within a VCS Branch

**Description:** Downloads a specific file from within a branch.

**Since:** 3.6.0

**Security:** Requires a privileged user (can be anonymous)

**Usage:** GET /artifactory/api/vcs/downloadBranchFile/{repoKey}/{userOrg}/{repo}/{branch-name}!{file-path}

**Produces:** application/octet-stream

**Sample Output:**

```
GET /artifactory/api/vcs/downloadBranchFile/github/jquery/jquery/master!README.md
<AUTHORS.txt content>
```

### 2.10.46 | Download a VCS Release

**Description:** Downloads a complete release tarball (tar.gz/zip, default tar.gz) of a tag from GitHub.

**Since:** 4.3.0

**Security:** Requires a privileged user (can be anonymous)

**VCS Usage:** GitHub only

**Usage:** GET /artifactory/api/vcs/downloadRelease/{repoKey}/{userOrg}/{repo}/{release-name}?ext=tar.gz/zip (default tar.gz)

**Produces:** application/octet-stream

**Sample Output:**

```
GET /artifactory/api/vcs/downloadRelease/git-remote/google/protobuf/v3.0.0-beta-1?ext=tar.gz/zip
<Tag binary content>
```

## 2.11 | FEDERATED REPOSITORIES

This section describes the following REST APIs related to Federated repositories:

- Convert Local Repository to a Federated Repository
- Convert Federated Repository to a Local Repository
- Convert Build-Info Repository to a Federated Repository
- Get List of Inconsistent Federated Repositories
- Federation Recovery
- Federated Repository Full Sync
- Federated Repository Force Full Sync
- Synchronize Federated Member Configuration
- ARTIFACTORY FEDERATION SERVICE MONITORING
- LEGACY FEDERATION MONITORING
- Get List of Failed Binary Tasks
- Replay Failed Binary Tasks
- Delete Failed Binary Tasks

### 2.11.1 | Convert Local Repository to a Federated Repository

**Description:** Converts the local repository to a Federated repository.

#### Note

When working inside a specific project, the Federated repositories that comprise the Federation must all share the same project key.

**Since:** 7.18.3

**Security:** Requires an admin user

**Usage:** POST /api/federation/migrate/{localRepoName}

**Produces:** application/json

#### Sample Output:

```
POST /api/federation/migrate/generic-repo
```

```
Migration finished successfully.
```

### 2.11.2 | Convert Federated Repository to a Local Repository

**Description:** Converts the specified Federated repository to a local repository.

#### Important

The conversion from Federated back to local is allowed only if the Federated repository is not part of an active Federation containing additional members.

**Since:** 7.103.0

**Security:** Requires an admin user

**Usage:** POST /api/federation/convertToLocal

**Produces:** application/json

#### Sample Request:

```
curl --location 'http://localhost:8082/artifactory/api/federation/convertToLocal'  
--header 'Content-Type: application/json'
```

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```
--header 'Authorization: Basic YWRtaW46cGFzc3dvcmQ='  
--data '[{"repo1", "repo2"}]
```

The request body includes the following information:

Property	Description
data	A comma-separated list of Federated repositories to convert back to local repositories.  <b>Note</b>  There is no limit to the number of repositories that can be included, but a large number of repositories might take a few seconds to process. The repositories can belong to different projects, provided the administrator has access to those projects.

### Sample Output (all repos converted successfully — return status 200):

```
Successfully converted from federated to local repositories: [repo1, repo2]
```

### Sample Output (some repos converted successfully — return status 200):

```
{  
  "failedConversionRepositories": {  
    "repo2": "Repo repo2 contains remote members",  
  }  
}
```

### Sample Output (all repos failed to convert — return status 400):

```
{  
  "failedConversionRepositories": {  
    "repo2": "Repo repo2 does not exist or is not of Federated type",  
    "repo1": "Repo repo1 contains remote members"  
  }  
}
```

### Status Codes:

Code	Description
200	One or more repos converted successfully
400	Repos failed to convert
401	Bad Credentials
403	Permission Denied
404	Not Found

### 2.11.3 | Convert Build-Info Repository to a Federated Repository

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**Description:** Converts the Build-Info repository to a federated repository. Once you have converted the build-info repository into a federated Build-Info repository, proceed to add members to the federation using the [Update Repository Configuration](#).

**Note:** The federated repository cannot be converted back to a local Build-Info repository.

**Since:** 7.35

**Security:** Requires an admin user

**Usage:** POST /api/federation/migrate/{buildInfoRepoName}

**Produces:** application/json

**Sample Input:**

```
POST /api/federation/migrate/artifactory-build-info
```

```
Migration finished successfully.
```

### 2.11.4 | Get List of Inconsistent Federated Repositories

**Description:** Returns a list of Federated repositories in your local Artifactory instance that have a configuration mismatch with one or more remote members.

After getting the list of mismatches, use the [Synchronize Federated Member Configuration REST API](#) on each mismatch to synchronize the members.

**Note**

This API supports both the legacy Federation service and the Artifactory Federation Service that was introduced in release 7.104.2.

**Since:** 7.108.3

**Security:** Requires Admin permissions

**Usage:** GET api/federation/inconsistentRepos

**Sample Request:**

```
GET http://{artifactory_url}/artifactory/api/federation/inconsistentRepos
```

**Sample Response:**

```
[  
  "fed82",  
  "fed-east-r3"  
]
```

In the example above, the fed82 and fed-east-r3 repositories have mismatches with one or more remote members. Run the [Synchronize Federated Member Configuration REST API](#) on each repository to resynchronize them.

### 2.11.5 | Federation Recovery

**Description:** Activates the recovery mechanism on the Federation or the specified Federated repository. The recovery mechanism clears errors in exhausted queues so that additional attempts can be made to send events to all remote Federation members.

**Note**

This API can be used even when the auto-healing mechanism is disabled. For more information about performing recovery automatically using the auto-healing feature, see [Federation Recovery and Auto-Healing](#).

**Since:** 7.71.1

**Security:** Requires admin permissions.

**Usage:** POST /artifactory/api/federation/recovery?repoKey={repo-key}

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### Query Parameters (optional):

Field	Type	Description
repoKey	string	The name of Federated repository on which to perform recovery. If this property is not defined, recovery is performed on all Federated repositories.

### Sample Request:

```
curl -XPOST 'http://localhost:8082/artifactory/api/federation/recovery?repoKey=generic-fed'
```

### Sample Response:

Recovery triggered successfully

**Status Codes:** 200 (OK)

## 2.11.6 | Reconnect to Federation Client

**Description:** If Artifactory cannot connect to the Artifactory Federation service automatically during startup, use this endpoint to reconnect the service manually.

### Warning

Your Federated repositories cannot synchronize events among members when the Artifactory Federation service is not connected.

**Since:** 7.104.2

**Security:** Requires Admin permissions

**Usage:** POST artifactory/api/federation/reconnect

### Sample Request:

```
POST https://<Artifactory_URL>/artifactory/api/federation/reconnect
```

### Sample Response:

```
{  
    "true"  
}
```

**Status Codes:**

Code	Description
200	Success
424	Failed Dependency Client

## 2.11.7 | Federated Repository Full Sync

**Description:** Runs a full synchronization between the Federated repository members.

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## Note

Starting with Artifactory 7.104.2, there is an option to use the Federation Comparison tool, which uses the `isDry` query parameter to generate a JSON file listing the binaries requiring synchronization without carrying out the operation. This option requires the Artifactory Federation Service to be installed.

**Since:** 7.18.3

**Security:** Requires an admin user

**Usage:** POST /api/federation/fullSync/{localRepoName}[?mirror={mirror\_url}&isDry=false]

**Query Parameters (optional):**

Field	Type	Description
mirror	string	<p>The URL of the specific Federation member on which you want to run the Full Sync.</p> <p>If this parameter is not set, the Full Sync is run against all remote Federation members.</p>
isDry	boolean	<p>When set to <code>true</code>, runs the Federation Comparison tool to determine which files on the local member are missing on the remote members.</p> <p>When <code>mirror</code> is set, the comparison is performed against that remote member only.</p> <p>The default value is <code>false</code>.</p>

**Sample Usage:**

```
curl -X POST "https://<your-artifactory-instance>/api/federation/fullSync/testDryFullSyncRepo?mirror=https://mirror-instance/artifactory/my-repo" \
-H "Authorization: Bearer <your-token>" \
-H "Content-Type: application/json"
```

**Sample Usage (dry run):**

```
curl -X POST "https://<your-artifactory-instance>/api/federation/fullSync/testDryFullSyncRepo?mirror=https://mirror-instance/artifactory/my-repo&isDry=true" \
-H "Authorization: Bearer <your-token>" \
-H "Content-Type: application/json"
```

**Produces:** application/json

**Sample Output:**

**Example: Syncs all Federated repositories in the Federation**

```
POST /api/federation/fullSync/generic-repo
```

Full sync triggered successfully

**Example: Syncs only specific Federated repositories**

```
POST /api/federation/fullSync/generic-repo?mirror=http://localhost:8081/artifactory/generic-repo2
```

Full sync triggered successfully

**Example: Full Sync Dry Run**

```
{
  "message": "Dry full sync completed successfully.",
  "resultPaths": [
    "jfrog-full-sync-info/comparison-results/testDryFullSyncRepo-mirror-comparison-2025-02-04.json"
  ]
}
```

## JFrog REST APIs Displayed in the header

Example of retrieved contents of dry run report (stored in jfrog-full-sync-info system repository)

```
{  
  "results": [  
    {  
      "name": "testDryFullSyncFile_1.txt",  
      "type": "file",  
      "fullPath": "folder/testDryFullSyncFile_1.txt"  
    },  
    {  
      "name": "testDryFullSyncFile_2.txt",  
      "type": "file",  
      "fullPath": "folder/testDryFullSyncFile_2.txt"  
    }  
  ]  
}
```

### 2.11.8 | Federated Repository Force Full Sync

**Description:** Forces a full synchronization between the Federated repository members, interrupting another Full Sync operation that is already in progress. This can be used if the Full Sync operation in progress has become stuck.

**Since:** 7.80.0

**Security:** Requires an admin user

**Usage:** POST /api/federation/forceFullSync/{RepoKey}

**Produces:** application/json

**Sample Request:**

```
~ curl -uadmin:password -XPOST 'http://localhost:55049/artifactory/api/federation/forceFullSync/fed-generic'
```

**Sample Output:**

```
Full sync triggered successfully
```

### 2.11.9 | Synchronize Federated Member Configuration

**Description:** Synchronizes the configuration of a federated member in case of a network malfunction.

**Since:** 7.27.6

**Security:** Requires an admin user

**Usage:** POST /api/federation/configSync/<repositoryKey>

**Produces:** application/json

**Sample Output:**

```
POST http://localhost:port/artifactory/api/federation/configSync/<repositoryKey>
```

### 2.11.10 | ARTIFACTORY FEDERATION SERVICE MONITORING

The following APIs are available when using the Artifactory Federation Service (introduced for Cloud environments in Q3 2024 and for Self-hosted environments in Q1 2025):

# JFrog REST APIs Displayed in the header

- Get Federation Connection Details
- Get Federation State Details
- Get Federation State Summaries
- Prioritize Federated Repository

## Note

The following Federated repository REST APIs are not supported by the standalone Artifactory Federation service and can no longer be used:

- GET api/federation/status/repo/<REPO\_NAME> (see [Get Federated Repository Status](#))
- GET api/v2/federation/status/repo/<REPO\_NAME> (see [Get Federated Repository Status \(v2\)](#))
- GET /artifactory/api/federation/state (see [Get Federation Sync State](#))
- GET api/federation/status/mirrorsLag (see [Get Federation Mirror Lag Time](#))
- GET api/federation/status/unavailableMirrors (see [Get Unavailable Mirrors](#))

### 2.11.10.1 | Get Federation Connection Details

**Description:** Returns the connection status of a Federated repository with other members of its Federation. This status indicates whether metadata events are being synchronized promptly between each source and each target within the Federation.

## Tip

The connection status between Federation members can also be viewed in the Federation dashboard. For more information, see [View the Status of a Selected Repository Federation](#).

**Since:** 7.104.2

## Important

This API replaces the following APIs that were used by the legacy Federation service in Artifactory:

- GET api/federation/status/repo/<REPO\_NAME> (see [Get Federated Repository Status](#))
- GET api/v2/federation/status/repo/<REPO\_NAME> (see [Get Federated Repository Status \(v2\)](#))
- GET /artifactory/api/federation/state (see [Get Federation Sync State](#))

**Security:** Requires admin permissions

**Usage:** GET /artifactory/api/federation/status/connectionStates/<repo-name>

## Sample Query:

```
curl -u "admin:password" -X GET https://[ARTIFACTORY_URL]/artifactory/api/federation/status/connectionStates/<repo-name>
```

## Sample Response:

```
{
  "memberConnections" : [ {
    "localRepoKey" : "priority_test_repo_1",
    "localPlatformUrl" : "https://my-ci-green.jfrog.io/artifactory",
    "remoteRepoKey" : "repo_1_high",
    "remotePlatformUrl" : "https://my-ci-blue.jfrog.io/artifactory",
    "status" : "HEALTHY",
    "lagInMs" : 0,
    "queuedEvents" : 0,
    "disabled" : false,
    "supported" : true
  }, {
    "localRepoKey" : "repo_1_high",
    "localPlatformUrl" : "https://my-ci-blue.jfrog.io/artifactory",
    "remoteRepoKey" : "priority_test_repo_1",
    "remotePlatformUrl" : "https://my-ci-green.jfrog.io/artifactory",
  }
]
```

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```
"status" : "N/A",
"lagInMs" : 0,
"queuedEvents" : 0,
"disabled" : false,
"supported" : false
} ]
}
```

The response includes the following information:

Property	Type	Description
localRepoKey	string	The repository key of the Federated repository on the local JPD that serves as the source of the connection.
localPlatformUrl	string	The URL of the Federated repository on the local JPD.
remoteRepoKey	string	The repository key of the Federated repository on the remote JPD that serves as the target of the connection.
remotePlatformUrl	string	The URL of the Federated repository on the remote JPD.
status	string	The status of the connection between the source and target members. For more information about statuses (or states), see <a href="#">Get Federation State Summaries</a> .
lagInMs	integer	The current lag (in milliseconds) in synchronizing events between the source and target members.
queuedEvents	integer	The number of metadata events remaining in the queue to be sent to the target member. (Binaries are not included in this count, only the metadata.)
disabled	boolean	Whether the Federation member has been disabled by an administrator.
supported	boolean	Whether the Federation member is running a version of Artifactory that supports the standalone Federation service (of which this REST API is a part).

# JFrog REST APIs Displayed in the header

Property	Type	Description
		<p><b>Note</b></p> <p>If supported is true, but the status is N/A, this indicates that the remote member cannot be reached (possibly due to a network issue).</p>

## Status Codes:

Code	Description
200	OK
401	Bad Credentials
403	Permission Denied

## 2.11.10.2 | Get Federation State Details

**Description:** Returns the current state of each repository Federation configured on your JPD.

### Tip

The Federation state details can also be viewed in the Federation dashboard. For more information, see View the Status of All Repository Federations.

**Since:** 7.104.2

### Important

This API replaces the following APIs that were used by the legacy Federation service in Artifactory:

- GET /api/federation/status/mirrorsLag (see Get Federation Mirror Lag Time)
- GET /api/federation/status/unavailableMirrors (see Get Unavailable Mirrors)

**Security:** Requires admin permissions

**Usage:** GET /artifactory/api/federation/status/stateList

### Sample Query:

```
curl -u "admin:password" -X GET https://[ARTIFACTORY_URL]/artifactory/api/federation/status/stateList
```

### Sample Response:

```
{
  "federations" : [ {
    "localRepoKey" : "rtfs-dev-master-maven-local-2",
    "memberInfoList" : [ {
      "url" : "https://my-ci-blue.jfrog.io/artifactory",
      "repoKey" : "rtfs-dev-master-maven-local-2",
      "aggregatedStatus" : "HEALTHY",
      "supported" : true,
      "disabled" : false,
      "status" : "UP_TO_DATE"
    }
  ]
}
```

# JFrog REST APIs Displayed in the header

```
"inLag" : false
}, {
"url" : "https://my-ci-green.jfrog.io/artifactory",
"repoKey" : "rtfs-dev-master-maven-local-2",
"aggregatedStatus" : "N/A",
"supported" : false,
"disabled" : false,
"inLag" : false
} ],
"priority" : "HIGH"
}, {
"localRepoKey" : "artifactory-federation-1",
"memberInfoList" : [ {
"url" : "https://my-ci-blue.jfrog.io/artifactory",
"repoKey" : "artifactory-federation-1",
"aggregatedStatus" : "DELAYED",
"supported" : true,
"disabled" : false,
"inLag" : true
}, {
"url" : "https://my-ci-green.jfrog.io/artifactory",
"repoKey" : "artifactory-federation-1",
"aggregatedStatus" : "PENDING_FS",
"supported" : true,
"disabled" : false,
"inLag" : true
} ],
"priority" : "STANDARD"
}, {
"localRepoKey" : "rtfs-dev-master-docker-local-1",
"memberInfoList" : [ {
"url" : "https://my-ci-blue.jfrog.io/artifactory",
"repoKey" : "rtfs-dev-master-docker-local-1",
"aggregatedStatus" : "ERROR",
"supported" : true,
"disabled" : false,
"inLag" : true
}, {
"url" : "https://my-ci-green.jfrog.io/artifactory",
"repoKey" : "rtfs-dev-master-docker-local-1",
"aggregatedStatus" : "DISABLED",
"supported" : false,
"disabled" : true,
"inLag" : false
} ],
"priority" : "STANDARD"
} ]
}
```

The response includes the following information:

Property	Type	Description
localRepoKey	string	The repository key of the local member of the Federation on this JPD.
memberInfoList	string	Contains information about the other members of the repository Federation, as described below.
memberInfoList.url	string	The URL of the Federation member.

## JFrog REST APIs Displayed in the header

Property	Type	Description
memberInfoList.repoKey	string	The repository key of the Federation member.
memberInfoList.aggregatedStatus	string	The aggregated status of the Federation member, which is based on the most severe status of its connections with other Federation members. For more information about statuses (or states), see <a href="#">Get Federation State Summaries</a> .
memberInfoList.supported	boolean	Whether the Federation member is running a version of Artifactory that supports the standalone Federation service (of which this REST API is a part).
memberInfoList.disabled	boolean	Whether the Federation member has been disabled by an administrator.
memberInfoList.inLag	boolean	Whether the Federation member is currently experiencing delays in sending metadata events to other members.
priority	string	Whether this repository Federation has been given priority access to system resources. For more information, see <a href="#">Prioritize Federated Repository</a> .  Possible values are STANDARD (default) and HIGH (prioritized).

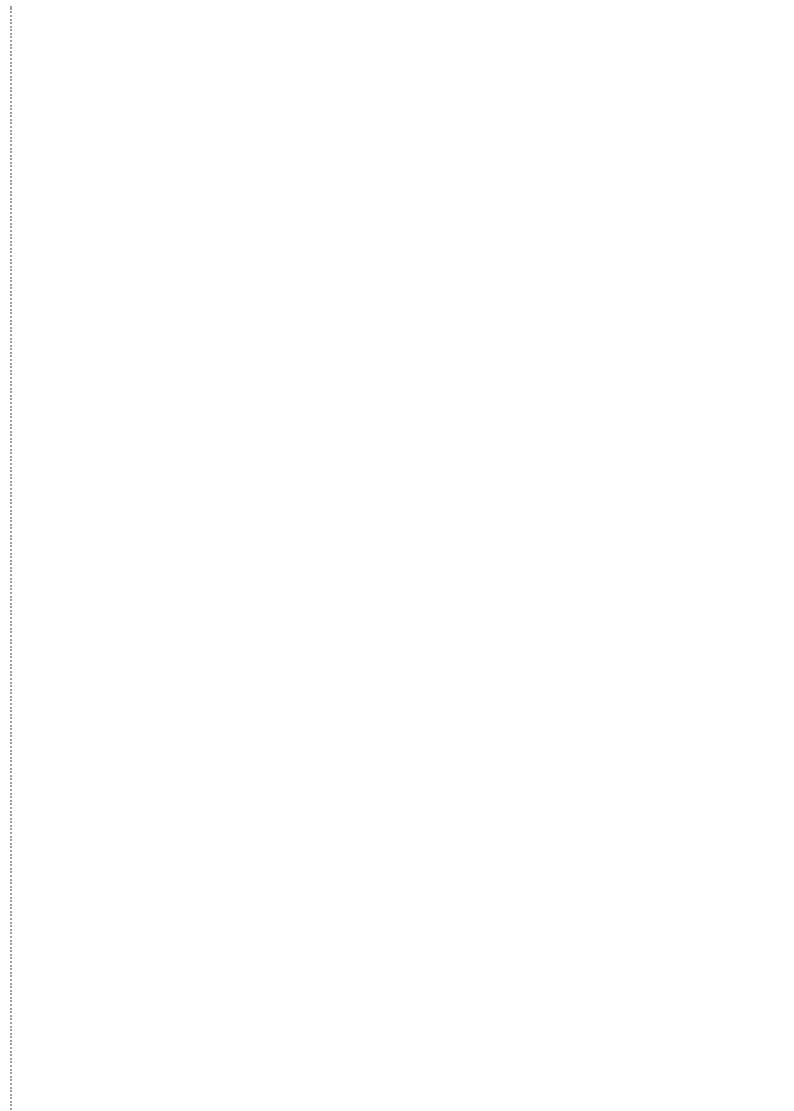
**Status Codes:**

Code	Description
200	OK
401	Bad Credentials
403	Permission Denied

## JFrog REST APIs Displayed in the header

**Description:** Returns the number of Federation members that are currently in each of the following states: HEALTHY, NOT\_AVAILABLE, DELAYED, PENDING\_FS, FULL\_SYNC\_RUNNING, ERROR, DISABLED

The state of each member is based on an aggregation of all connections that are federated with the JPD on which this endpoint is run. The aggregation is based on the most severe state. In the example shown below, metadata events sent from the Federated repository **gen-fed-fr** are synchronizing in a timely fashion with **gen-fed-au**. Therefore, that connection is HEALTHY. However, there is a delay in sending events from **gen-fed-fr** to **gen-fed-us**. Therefore, the aggregated status of **gen-fed-fr** is DELAYED.



### Tip

All these states (except ERROR and DISABLED) can also be viewed in the Federation dashboard. For more information, see [View the Status of All Repository Federations](#).

**Since:** 7.104.2

### Important

This API replaces the following API that was used by the legacy Federation service in Artifactory:

- GET /artifactory/api/federation/state (see [Get Federation Sync State](#))

**Security:** Requires admin permissions

**Usage:** GET /artifactory/api/federation/status/stateSummary

### Sample Query:

```
curl -u "admin:password" -X GET https://[ARTIFACTORY_URL]/artifactory/api/federation/status/stateSummary
```

### Sample Response:

## JFrog REST APIs Displayed in the header

```
{  
  "federationStates" : {  
    "HEALTHY" : 6,  
    "NOT_AVAILABLE" : 1,  
    "DELAYED" : 2,  
    "PENDING_FS" : 1,  
    "FULL_SYNC_RUNNING" : 1,  
    "ERROR" : 0,  
    "DISABLED" : 0  
  }  
}
```

The response includes the following information:

State	Description
HEALTHY	The number of Federations where <b>all</b> members are experiencing timely synchronization of metadata events.
NOT_AVAILABLE	The number of Federations where at least one member cannot be reached or is running a version of Artifactory that does not support the standalone Federation service (which includes this REST API).
DELAYED	The number of Federations where at least one member is experiencing latency that exceeds the defined thresholds (defined in system properties). This means that synchronization of metadata events is taking longer than expected.
PENDING_FS	The number of Federations where at least one member is waiting for a Full Sync to be performed. A Full Sync is performed during the initialization process when a Federation is created, and as a way to restore synchronization when regular synchronization and auto-healing are insufficient (for example, if there are purged events that are no longer available to be synchronized)
FULL_SYNC_RUNNING	The number of Federations where at least one member is currently undergoing the Full Sync procedure.
ERROR	The number of Federations where there are failures sending metadata events between members. The Federation service has an auto-healing mechanism to help the Federation recover from these types of errors.
DISABLED	The number of Federations where at least one member has been disabled by an administrator.

### Status Codes:

Code	Description
200	OK
401	Bad Credentials

## JFrog REST APIs Displayed in the header

Code	Description
403	Permission Denied

### 2.11.10.4 | Prioritize Federated Repository

**Description:** Determines whether the queue of the specified Federated repository has priority access to system resources. Prioritizing the repository helps ensure timely synchronization of its events with other members of the Federation.

#### Important

There can be a maximum of 10 prioritized Federated repositories at any one time on the JPD.

**Since:** 7.104.2

**Security:** Requires Admin permissions

**Usage:** PUT federation/prioritization/{repo-key}?priorityLevel=high/standard

**Query Parameter:**

Field	Type	Description
priorityLevel	string	Defines the priority level assigned to the Federated repository: <ul style="list-style-type: none"><li>• high: The repository is assigned High priority, which means it is given priority access to system resources to help ensure its events are synchronized with other Federation members.</li><li>• standard: The repository is assigned Standard priority, which means it does not have preference over other Federated repositories with regards to synchronization. This is the default value.</li></ul>

#### Sample Request:

```
PUT /api/federation/prioritization/{repo-key}?priorityLevel=high/standard
Content-Type: application/json
{}
```

#### Sample Response:

The repository priority has been changed to %s.

#### Status Codes:

Code	Description
200	The repository was prioritized/deprioritized successfully
400	Invalid request
403	Forbidden

Code	Description
404	The repository was not found
500	Internal error

## 2.11.11 | LEGACY FEDERATION MONITORING

The following APIs are used for monitoring Federated repositories when using the legacy Federation service:

- [Get Federated Repository Status](#)
- [Get Federated Repository Status \(v2\)](#)
- [Get Federation Mirror Lag Time](#)
- [Get Federation Sync State](#)
- [Get Unavailable Mirrors](#)

### 2.11.11.1 | Get Federated Repository Status

#### Important

This API is not supported by the standalone Artifactory Federation service that was released in version 7.104.2.

**Description:** Returns the synchronization status of the Federation for a specific repository.

This API has a high impact on the database and should be used with care.

**Since:** 7.49.3

**Security:** Requires an admin user.

**Usage:** GET `api/federation/status/repo/<REPO_NAME>`

#### Sample Request:

```
GET api/federation/status/repo/<example-repo-local>
```

#### Sample Response:

```
{
  "localKey": "generic-repo-federated0",
  "binariesTasksInfo": {
    "inProgressTasks": 0,
    "failingTasks": 0
  },
  "mirrorEventsStatusInfo": [
    {
      "remoteUrl": "https://my-ci-green.jfrog.io/artifactory",
      "remoteRepoKey": "generic-repo-federated0",
      "status": "SYNC",
      "createEvents": 9463,
      "updateEvents": 0,
      "deleteEvents": 0,
      "propsEvents": 0,
      "errorEvents": 0,
      "lagInMS": 46628,
      "eventRegistrationTimeStamp": 1676559878115
    }
  ],
  "federatedArtifactStatus": {
```

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```
        "countFullyReplicateArtifacts": 987329,  
        "countArtificiallyReplicatedArtifacts": 0  
    }  
}
```

The response displays the following information:

Property	Description
localRepoKey	The name of the local repository.
binariesTasksInfo	Includes the properties listed below:
inProgressTasks	Total number of tasks in the binaries tasks table waiting to download artifacts (currently only metadata is stored in the local JFrog Platform Deployment).
failingTasks	Total number of tasks that failed to download from the member during the download.
mirrorEventsStatusInfo	Includes the properties listed below:
remoteUrl	URL of one of the Federated members (mirrors).
remoteRepoKey	Repository name of the Federated member.
status	The current synchronization status of the Federated member: <ul style="list-style-type: none"><li>• <b>SYNC</b></li><li>• <b>OUT_OF_SYNC</b></li></ul>
createEvents	The number of Create events waiting to be sent to the target member.
updateEvents	The number of Update events waiting to be sent to the target member.
deleteEvents	The number of Delete events waiting to be sent to the target member.
propsEvents	The number of node properties waiting to be sent to the target member.
errorEvents	The number of failed events during the sync process.
lagInMS	The amount of time the event waits to be processed (in milliseconds). The calculation is current time/query time (eventRegistrationTimeStamp).
eventRegistrationTimeStamp	The time when the event was created.

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Property	Description
federatedArtifactStatus	Includes the properties listed below:
countFullyReplicateArtifacts	The number of artifacts that fully exist (binary data & metadata) in the JFrog Platform Deployment [JPD].
countArtificiallyReplicatedArtifacts	The number of artificial artifacts (metadata only) in the JPD. The full binary file does not yet exist. If the user tries to download the artifact, the search will proceed on one of the other members.

### 2.11.11.2 | Get Federated Repository Status (v2)

#### Important

This API is not supported by the standalone Artifactory Federation service that was released in version 7.104.2.

**Description:** Returns the synchronization status of the Federation for a specific repository.

#### Note

This is the v2 version of the endpoint, which was released to offer a wider range of possible member statuses, as described below. The original version is still available for purposes of backward compatibility.

#### Warning

This API greatly impacts the database and should be used with care.

**Since:** 7.82.2 (Cloud)

**Security:** Requires an admin user.

**Usage:** GET api/v2/federation/status/repo/<REPO\_NAME>

#### Sample Request:

<https://federationtest2.jfrogdev.org/artifactory/api/v2/federation/status/repo/fed-generic>

#### Sample Response:

```
{  
  "localKey" : "fed-generic",  
  "binariesTasksInfo" : {  
    "inProgressTasks" : 0,  
    "failingTasks" : 0  
  },  
  "mirrorEventsStatusInfo" : [ {  
    "remoteUrl" : "https://my-ci-green.jfrog.io/artifactory",  
    "remoteRepoKey" : "fed-generic",  
    "status" : "HEALTHY",  
    "createEvents" : 0,  
    "updateEvents" : 0,  
    "deleteEvents" : 0,  
    "propsEvents" : 0,  
    "errorEvents" : 0,  
    "lagInMS" : 0,  
    "eventRegistrationTimeStamp" : 0  
  }, {  
    "remoteUrl" : "https://my-ci-blue.jfrog.io/artifactory",  
    "remoteRepoKey" : "fed-generic",  
    "status" : "HEALTHY",  
    "createEvents" : 0,  
    "updateEvents" : 0,  
    "deleteEvents" : 0,  
    "propsEvents" : 0,  
    "errorEvents" : 0,  
    "lagInMS" : 0,  
    "eventRegistrationTimeStamp" : 0  
  } ]  
}
```

## JFrog REST APIs Displayed in the header

```
"status" : "HEALTHY",
"createEvents" : 0,
"updateEvents" : 0,
"deleteEvents" : 0,
"propsEvents" : 0,
"errorEvents" : 0,
"lagInMS" : 0,
"eventRegistrationTimeStamp" : 0
} ],
"federatedArtifactStatus" : {
"countFullyReplicateArtifacts" : 0,
"countArtificiallyReplicatedArtifacts" : 0
}
}
```

The response displays the following information:

Property	Description
localRepoKey	The name of the local repository.
binariesTasksInfo	Includes the properties listed below:
inProgressTasks	Total number of tasks in the binaries tasks table waiting to download artifacts (currently only metadata is stored in the local JFrog Platform Deployment).
failingTasks	Total number of tasks that failed to download from the member during the download.
mirrorEventsStatusInfo	Includes the properties listed below:
remoteUrl	URL of one of the Federated members (mirrors).
remoteRepoKey	Repository name of the Federated member.
status	The current synchronization status of the Federated member: <ul style="list-style-type: none"><li>• <b>HEALTHY</b>: Metadata events are synchronizing in a timely manner.</li><li>• <b>PENDING_FS</b>: The member is waiting for a Full Sync operation to be performed.</li><li>• <b>FS_RUNNING</b>: A Full Sync operation is currently running.</li><li>• <b>OUT_OF_SYNC</b>: The member is out of sync.</li><li>• <b>EXHAUSTED</b>: The member's event queue has exceeded the maximum number of attempts to send metadata events to other Federation member. See <a href="#">Federation Recovery</a>.</li><li>• <b>DISABLED</b>: The member has been disabled and cannot synchronize metadata events with the rest of the Federation.</li></ul>
createEvents	The number of Create events waiting to be sent to the target member.

# JFrog REST APIs Displayed in the header

Property	Description
updateEvents	The number of Update events waiting to be sent to the target member.
deleteEvents	The number of Delete events waiting to be sent to the target member.
propsEvents	The number of node properties waiting to be sent to the target member.
errorEvents	The number of failed events during the sync process.
lagInMS	The amount of time the event waits to be processed (in milliseconds). The calculation is current time/query time (eventRegistrationTimeStamp).
eventRegistrationTimeStamp	The time when the event was created.
federatedArtifactStatus	Includes the properties listed below:
countFullyReplicateArtifacts	The number of artifacts that fully exist (binary data & metadata) in the JFrog Platform Deployment [JPD].
countArtificiallyReplicatedArtifacts	The number of artificial artifacts (metadata only) in the JPD. The full binary file does not yet exist. If the user tries to download the artifact, the search will proceed on one of the other members.

## 2.11.11.3 | Get Federation Sync State

### Important

This API is not supported by the standalone Artifactory Federation service that was released in version 7.104.2.

**Description:** Returns the synchronization state of all Federated repositories in the JPD.

**Security:** Requires Admin permissions

**Usage:** GET /artifactory/api/federation/state

**Query Parameters (optional):** {none}

**Request Body:** {none}

**Sample Response:**

```
[
  {
    "localRepoKey" : "generic-fed-a" ,
    "status" : "OUT_OF_SYNC"
    "members" : [
      {
        "remoteUrl" : "http://docker.for.mac.localhost:10104/artifactory/" ,
        "remoteRepoKey" : "generic-fed-a" ,
      },
    ],
  }
]
```

## JFrog REST APIs Displayed in the header

```
{  
    "remoteUrl" : "http://docker.for.mac.localhost:10105/artifactory/" ,  
    "remoteRepoKey" : "generic-fed-a" ,  
}  
]  
}  
,  
{  
    "localRepoKey" : "generic-fed-b" ,  
    "status" : "DISABLED"  
    "members" : []  
},  
{  
    "localRepoKey" : "generic-fed-c" ,  
    "status" : "FULL_SYNC_RUNNING"  
    "members" : [  
        {  
            "remoteUrl" : "http://docker.for.mac.localhost:10104/artifactory/" ,  
            "remoteRepoKey" : "generic-fed-c" ,  
        },  
    ]  
},  
]  
]
```

The response includes the following information:

Property	Description
localRepoKey	The unique key of the local repository.
status	The current synchronization status: <ul style="list-style-type: none"><li>• <b>FULL_SYNC_RUNNING</b>: A full sync operation is running in the background.</li><li>• <b>SYNCING</b>: The mirrors are in syncing mode.</li><li>• <b>OUT_OF_SYNC</b>: The mirrors are out of sync.</li><li>• <b>DISABLED</b>: The mirror is currently disabled.</li></ul>
members	Includes the following properties: <ul style="list-style-type: none"><li>• remoteUrl: The URL of the remote repository.</li><li>• remoteRepoKey: The unique key of the remote repository.</li></ul>

### Status Codes:

Code	Description
200	Success
401	Bad Credentials

Code	Description
403	Permission Denied

#### 2.11.11.4 | Get Federation Mirror Lag Time

##### Important

This API is not supported by the standalone Artifactory Federation service that was released in version 7.104.2.

**Description:** Returns the elapsed time since the last event that was not handled on each Federation mirror for all repositories.

**Since:** 7.49.3

**Security:** Requires an admin user.

**Usage:** GET `api/federation/status/mirrorsLag`

**Usage Strategy:** Use this API to gather lag statistics at regular intervals (e.g. every few minutes/hours). When a repository with significant lag is detected, use the repository status API to get additional details.

##### Query Parameters (optional):

Field	Type	Description
thresholdTimeInMs	integer	(Introduced in 7.61.0.) Returns only those repositories whose lag exceeds this defined threshold (in milliseconds).

##### Sample Request:

```
GET api/federation/status/mirrorsLag
```

##### Sample Response (no threshold defined):

```
[
  {
    "localRepoKey" : "example-repo-local" ,
    "remoteUrl" : "http://docker.for.mac.localhost:10103/artifactory/" ,
    "remoteRepoKey" : "test1-repo" ,
    "lagInMS" : 1500 ,
    "eventRegistrationTimeStamp" : 1663772736117
  },
  {
    "localRepoKey" : "example-repo-local" ,
    "remoteUrl" : "http://docker.for.mac.localhost:10102/artifactory/" ,
    "remoteRepoKey" : "test2-repo" ,
    "lagInMS" : 5200 ,
    "eventRegistrationTimeStamp" : 1663772736117
  }
]
```

##### Sample Response (with defined threshold of 5000 ms):

```
GET api/federation/status/mirrorsLag?thresholdTimeInMs=5000
[
  {
    "localRepoKey" : "example-repo-local" ,
    "remoteUrl" : "http://docker.for.mac.localhost:10102/artifactory/" ,
```

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```
"remoteRepoKey" : "test2-repo" ,  
"lagInMS" : 5200,  
"eventRegistrationTimeStamp" : 1663772736117  
}  
]
```

The response displays the following information:

Property	Description
localRepoKey	The name of the local repository.
remoteUrl	The URL of the Federation mirror.
remoteRepoKey	The name of the repository on the Federation mirror.
lagInMS	The amount of time the event waits to be processed (in milliseconds). The calculation is current time/query time (eventRegistrationTimeStamp).
eventRegistrationTimeStamp	The time when the event was created.

### 2.11.11.5 | Get Unavailable Mirrors

#### Important

This API is not supported by the standalone Artifactory Federation service that was released in version 7.104.2.

**Description:** Gets a list of unsynchronized Federated mirrors from all repositories. Mirrors are unsynchronized when they are first added to the federation, during repository migration from local to Federated, and when a certain error threshold is crossed.

**Since:** Artifactory 7.49.3

**Security:** Requires an admin user.

**Usage:** GET api/federation/status/unavailableMirrors

#### Sample Request:

```
GET api/federation/status/unavailableMirrors
```

The response displays the following information:

#### Sample Response:

```
[  
 {  
   "localRepoKey" : "example-repo-local" ,  
   "remoteUrl" : "http://docker.for.mac.localhost:10104/artifactory/" ,  
   "remoteRepoKey" : "test3-repo" ,  
   "status" : "OUT_OF_SYNC"  
 }  
]
```

The response displays the following information:

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Property	Description
localRepoKey	The name of the local repository.
remoteUrl	The URL of the Federation mirror.
remoteRepoKey	The name of the repository on the Federation mirror.
status	Returns all mirrors that are not in a SYNC status.

### 2.11.12 | Get List of Failed Binary Tasks

**Description:** Returns a list of tasks that failed because Artifactory was not able to retrieve the binary of the task. The number of attempts that Artifactory tries to retrieve the binary of the task is set by `maximum`, which is 10 by default.

**Since:** 7.68.11

**Security:** Requires Admin permissions

**Usage:** GET `api/federation/binaries/failures/list`

**Query Parameters:**

Field	Type	Description
repoKey	string	The name of the repository. This parameter is required.
limit	integer	The number of tasks to be returned in the response. Default = 1000. This parameter is optional.
page	integer	The page number for a group of tasks, starting from 1. This parameter is optional.

**Sample Request:**

```
GET http://localhost:8082/artifactory/api/federation/binaries/failures/list?repoKey=fedrepo
```

**Sample Response:**

```
[  
  {  
    "sha1": "5c9449b779eae6c85b5d7b74c4c7d5c2fd0705ae",  
    "repoKey": "fedrepo",  
    "creationTime": 1694003288367,  
    "failuresCount": 10  
  }  
]
```

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The response includes the following information:

Property	Description
sha1	The SHA1 of the artifact.
repoKey	The name of the repository,
creationTime	The time at which the task was created.
failuresCount	The number of times that Artifactory attempted to process the task.

### 2.11.13 | Replay Failed Binary Tasks

**Description:** This API marks binary tasks that previously failed to be processed again. This can be done for the entire repository or for a particular binary task in the repository.

**Since:** 7.68.11

**Security:** Requires Admin permissions

**Usage:** PUT `artifactory/api/federation/binaries/failures/replay`

**Query Parameters:**

Field	Type	Description
repoKey	string	The name of the repository. This parameter is required.
sha1	string	The SHA1 of the artifact. This parameter is optional.

**Sample Request:**

```
PUT http://localhost:8082/artifactory/api/federation/binaries/failures/replay?repoKey=fedrepo
```

**Sample Response:**

```
{  
  "replayTasks": 1  
}
```

The response includes the following information:

Property	Description
replayTasks	The number of replayed binary tasks.

#### 2.11.14 | Delete Failed Binary Tasks

**Description:** This API deletes binary tasks that previously failed. This can be done for the entire repository or for a particular binary task in the repository.

**Since:** 7.68.11

**Security:** Requires Admin permissions

**Usage:** `DELETE artifactory/api/federation/binaries/failures/delete`

**Query Parameters:**

Field	Type	Description
repoKey	string	The name of the repository. This parameter is required.
sha1	string	The SHA1 of the artifact. This parameter is optional.

**Sample Request:**

```
DELETE http://localhost:8082/artifactory/api/federation/binaries/failures/delete?repoKey=fedrepo
```

**Sample Response:**

```
{
  "deletedTasks": 1
}
```

The response includes the following information:

Property	Description
deletedTasks	The number of deleted binary tasks.

## 2.12 | LOGGERS

The following APIs are available for Artifactory loggers:

- Set Logger Debug Levels
- Get Logger Debug Level
- Delete Logger Debug Levels

## 2.12.1 | Set Logger Debug Levels

### Subscription Information

This feature is supported on the **Self-Hosted** platform, with a **Pro**, **Pro X**, **Enterprise X**, or **Enterprise+** license.

**Description:** Defines a temporary debug level for one or more loggers in memory without changing the logback.xml file. This request can be used to collect more detailed log information for a short period of time to help investigate a particular issue. When the defined time interval expires, the logger debug level is reset to its previous value.

#### Note

In HA environments, the debug level is propagated so that all nodes have the same log level.

#### Tip

This API was intended for customers whose security protocols prevent accessing the loggers remotely via SSH. It is strongly recommended to contact JFrog Support before using this API. A support representative will provide the names of the loggers to include in the request and the desired debug level.

**Since:** 7.77.0

**Security:** Requires an admin user

**Usage:** POST /artifactory/api/system/debug/loggers

**Content-Type:** application/json

#### Sample Usage:

```
curl -uadmin:password -H "Content-Type: application/json" -X POST -d '{  
  "classes": {  
    "org(dummy).Class": "debug",  
    "org(dummy).OtherClass": "INFO"  
  }, "timer": 60  
' https://<Artifactory_URL>/artifactory/api/system/debug/loggers
```

The request includes the following information:

Field	Mandatory/Optional	Type	Description
classes	mandatory	array	<p>The names of the loggers whose debug level you want to change temporarily (for example, com.jfrog.bh), and the debug level to define for each one. Debug levels include:</p> <ul style="list-style-type: none"><li>• trace</li><li>• debug</li><li>• info</li><li>• warn</li><li>• error</li><li>• fatal</li></ul> <p>Each logger you want to configure must be specified individually by name. The maximum number of loggers that can be configured is 100.</p>
timer	mandatory	integer	The amount of time to keep the loggers at the defined debug level (in seconds). When the interval expires, the loggers are reset to the previous debug level.

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## Sample Response:

Logger levels configured successfully

## Note

To return to the previous debug level before the timer expires, use the [Delete Logger Debug Levels API](#).

## Warning

**Do not send a new POST request until the previous POST request has expired.** If you want to change the debug level configuration, first send a **DELETE** request to undo the previous POST and only then execute a new POST request.

## Status Codes:

Code	Description
200	Submitted
400	Bad Request  Examples include: <ul style="list-style-type: none"><li>• No loggers defined</li><li>• Too many loggers defined (maximum is 100)</li><li>• timer set to &lt; 0</li></ul>
401	Bad Credentials
403	Forbidden

## Note

If any of the classes defined in the request do not exist, the POST operation will still complete. Therefore, before making a correction, you must either wait for the timer to expire or execute a **DELETE** operation before sending a new POST request.

## 2.12.2 | Get Logger Debug Level

### Subscription Information

This feature is supported on the **Self-Hosted** platform, with a **Pro**, **Pro X**, **Enterprise X**, or **Enterprise+** license.

**Description:** Returns the current debug level configuration for the specified logger.

## Note

In HA environments, it returns the debug level from whichever node receives the request.

**Since:** 7.77.0

**Security:** Requires an admin user

**Usage:** GET /artifactory/api/system/debug/loggers/{className}

**Content-Type:** application/json

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### Sample Usage:

```
curl -uadmin:password -H "Content-Type: application/json" -X GET  
https://<Artifactory_URL>/artifactory/api/system/debug/loggers/{className}
```

The request includes the following information:

Field	Mandatory/Optional	Type	Description
className	mandatory	string	The name of the logger whose debug level you want returned (for example, org(dummy).Class).

### Note

If the className defined in the request does not exist, this API returns the default value of the root from logback.xml.

### Sample Response:

```
debug
```

### Status Codes:

Code	Description
200	Fetched
401	Bad Credentials
403	Forbidden

## 2.12.3 | Delete Logger Debug Levels

### Subscription Information

This feature is supported on the **Self-Hosted** platform, with a **Pro**, **Pro X**, **Enterprise X**, or **Enterprise+** license.

**Description:** Deletes the current logger debug level configuration and restores the previous settings. Use this request when you want to return to the previous settings before they expire automatically. If you want to make changes to a **POST** request that is still running, run this **DELETE** request first and then issue a new **POST** request.

### Note

This request propagates to all nodes in HA environments.

**Since:** 7.77.0

**Security:** Requires an admin user

**Usage:** `DELETE /artifactory/api/system/debug/loggers`

**Content-Type:** `application/json`

### Sample Usage:

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```
curl -uadmin:password -H "Content-Type: application/json" -X DELETE  
https://<Artifactory_URL>/artifactory/api/system/debug/loggers
```

### Sample Response:

Logger levels were reset to default settings successfully

### Status Codes:

Code	Description
200	Deleted
401	Bad Credentials
403	Permission Denied

## 2.13 | RELEASE BUNDLES V1

The following APIs apply to the Release Bundles (v1) received in Artifactory.

### 2.13.1 | Get All Bundles

**Description:** Returns a list of all release bundles

**Notes:** Requires Artifactory Enterprise+

**Security:** Requires admin privileges

**Usage:** GET /api/release/bundles

**Produces:** text/plain

**Since:** 6.5.0

#### Query Parameters (optional):

Field	Type	Description
type	string	Specifies the type of Release Bundle to return, target or source. If this parameter is not specified, the default value is target.

### Sample Usage:

```
GET /api/release/bundles
```

### Sample Output:

```
{
  "bundles" : {
    "test" : [ {
      "version" : "test",
      "created" : "2018-10-21T13:29:42.184Z",
      "status" : "COMPLETE"
    } ]
    "test2" : [ {
```

```
"version" : "test2",
"created" : "2018-11-21T13:29:42.184Z",
"status" : "COMPLETE"
} ]
}
```

### 2.13.2 | Get All Bundle Versions

**Description:** Returns a list of all bundles versions

**Notes:** Requires Artifactory Enterprise+ **Security:** Requires admin privileges

**Usage:** GET /api/release/bundles/{bundle-name}

**Produces:** text/plain

**Since:** 6.5.0

**Sample Usage:**

```
GET /api/release/bundles/{bundle-name}
```

**Sample Output:**

```
{
  "versions" : [ {
    "version" : "test",
    "created" : "2018-10-21T13:29:42.184Z",
    "status" : "COMPLETE"
  } ]
}
```

### 2.13.3 | Get a Release Bundle Version

**Description:** Returns a specific Release Bundle v1

**Notes:** Requires Artifactory Enterprise+

**Security:** Requires admin privileges

**Usage:** GET /api/release/bundles/{bundle-name}/{bundle-version}

**Produces:** application/json or application/jose

**Since:** 6.5.0

**Sample Usage:**

```
GET /api/release/bundles/{bundle-name}/{bundle-version}[?format=jws|json]
```

**Sample Output:**

```
{
  "name": "test",
  "version": "2.1.0",
  "description": "",
  "created": "2018-10-21T13:29:42.184Z",
  "artifacts": [
    {
      "repo_path": "artifactory-generic/bintray-client-java-api-0.9.2.jar",
      "checksum": "5880e05b5886a2fcfd9a5a6dace38cd4f243affa06719c5e63116b16094e95a31",
      "props": []
    }
  ]
}
```

## 2.13.4 | Delete a Release Bundle Version

**Description:** Delete a specific release bundle version from the **source** Artifactory. To delete a release bundle on a target Artifactory, see [Delete Release Bundle v1 Version](#) in the Distribution REST API.

**Notes:** Requires Artifactory Enterprise+

**Security:** Requires admin privileges

**Usage:** `DELETE /api/release/bundles/source/{bundle-name}/{bundle-version}`

**Produces:** `text/plain`

**Since:** 6.5.0

**Sample Usage:**

```
DELETE /api/release/bundles/source/{bundle-name}/{bundle-version}
```

## 2.13.5 | Import Release Bundle Version

**Description:** Import the Release Bundle version from the **exported** zip file. For more information, see [Distribute Release Bundles \(v1\)](#) in an Air Gap Environment.

### Important

This API is relevant for both Release Bundles v1 and Release Bundles v2.

**Note:** The Import process is performed on the Artifactory node.

You can set `dryRun=true` to validate that the conditions for performing the import process are met:

- All the target repositories exist in Artifactory
- No Release Bundle of this name already exists in Artifactory

From Artifactory 7.10.2, the import feature has been extended to support importing a file from a user-defined `ARTIFACTORY_HOME/var/data/artifactory/import/` path. Note that the file will be deleted from the path after the file is imported.

**Since:** 7.9

**Security:** Admin only

**Usage:** `POST /api/release/import?file_name=<fileName>&dry_run=<true|false>`

**Consumes:** `application/json`

**Sample metadata.json file:**

```
{"name": "test-100-1", "version": "1.0.0", "signature": "eyJraWQiOiIzYTI4NzEiLCJhbGciOiJFUzI1NiJ9...}
```

### Import from Local File Example:

```
curl -X POST 'http://localhost:8082/artifactory/api/release/import' -H 'Content-Type: application/octet-stream' -uadmin:password
```

```
curl -X POST "http://localhost:8082/artifactory/api/release/import" -H "Content-Type: application/octet-stream" --data-binary @release_bundle-1.0.0.zip -uadmin:password
```

### Import from Path Example:

```
curl -X POST "http://localhost:8082/artifactory/api/release/import?file_name=release_bundle-1.0.0.zip" -H "Content-Type: application/json" -uadmin:password
```

### Response status codes:

202 - Successfully triggered to import version

400 - Failed to import version

## 2.13.6 | Get Release Bundle Version Import Status

**Description:** Returns the status of the imported Release Bundle version. For more information, see Distribute Release Bundles (v1) in an Air Gap Environment.

**Note:** The Import process is performed on the Artifactory Edge node.

**Since:** 7.9

**Security:** Admin only

**Usage:** GET api/release/import/{name}/{version}/status

**Consumes:** application/json

### cURL Example

```
Curl -XGET 'http://localhost:8082/artifactory/api/release/import/{name}/{version}/status'
```

#### Response status codes:

200 - Successful request

**format=json**

```
{
    "status": "IN_PROGRESS|NOT_EXPORTED|FAILED|COMPLETED"
}
```

## 2.14 | PLUGINS

### 2.14.1 | Execute Plugin Code

**Description:** Executes a named execution closure found in the executions section of a User Plugins.

Execution can take parameters and be synchronous (the default) or asynchronous.

When parameters can have multiple values, you can separate the items in one of the following ways:

- Use a semicolon - ; (recommended)
- Use the encoding for the pipe ("|") character - %7C

Alternatively, you may configure your NGINX to encode URLs so that if an unencoded pipe is used in the URL, NGINX will encode it to %7C. We recommend that you verify that this configuration does not break any other systems served by NGINX

**Since:** 2.3.1

**Notes:** Requires Artifactory Pro

**Security:** Requires an authenticated user (the plugin can control which users/groups are allowed to trigger it)

**Usage:** POST /api/plugins/execute/{executionName}?[params=p1=v1[,v2][|p2=v3][&async=1]]

**Produces:** text/plain

#### Sample Output:

```
POST /api/plugins/execute/cleanup?params=suffix=SNAPSHOT;types=jar,war,zip&async=1
OK
```

### 2.14.2 | Retrieve Plugin Code

**Description:** Returns the source code of the specified user plugin.

**Since:** 5.0.0

**Notes:** Requires Artifactory Pro

**Security:** Requires an admin user.

**Usage:** GET /api/plugins/download/{pluginName}

**Produces:** text/x-groovy-source

#### Sample Usage

```
GET /api/plugins/download/myPlugin
```

Response:

```
<The source code of the plugin>
```

### 2.14.3 | Retrieve Plugin Info

**Description:** Returns User Plugins information for **Executions** and **Staging** plugins (subject to the permissions of the provided credentials).

**Since:** 2.5.2

**Notes:** Requires Artifactory Pro

**Security:** Requires an authenticated user.

**Usage:** GET /api/plugins

**Produces:** application/json

#### Sample Output:

```
GET /api/plugins
{
  "executions": [
    {
      "name": "execution1",
      "version": "version",
      "description": "description",
      "users": ["user1"],
      "groups": ["group1", "group2"],
      "params": {}
    }
  ],
  "staging": [
    {
      "name": "strategy1",
      "version": "1.0",
      "description": "desc",
      "params": {"key1": "val1"}
    }
  ]
}
```

### 2.14.4 | Retrieve Plugin Info of a Certain Type

**Description:** Returns all available User Plugins information (subject to the permissions of the provided credentials) of the specified type.

**Since:** 2.5.2

**Notes:** Requires Artifactory Pro

**Security:** Requires an authenticated user.

**Usage:** GET /api/plugins/{pluginType}

**Produces:** application/json

#### Sample Output:

```
GET /api/plugins/staging
{
  "staging": [
    {
      "name": "strategy1",
      "version": "1.0",
      "description": "desc",
      "params": {"key1": "val1"}
    }
  ]
}
```

## 2.14.5 | Retrieve Build Staging Strategy

**Description:** Returns a build staging strategy defined by a User Plugins.

When passing in parameters that may take multiple values, you can separate the items in one of the following ways:

- Use a semicolon - ; (recommended)
- Use the encoding for the pipe ("|") character - %7C

Alternatively, you may configure your NGINX to encode URLs so that if an unencoded pipe is used in the URL, NGINX will encode it to %7C. We recommend that you verify that this configuration does not break any other systems served by NGINX

**Since:** 2.5.2

**Notes:** Requires Artifactory Pro

**Security:** Requires an authenticated user.

**Usage:** GET /api/plugins/build/staging/{strategyName}?buildName={buildName}&[params=p1=v1[,v2][|p2=v3]]

**Produces:** application/json (application/vnd.org.jfrog.plugins.BuildStagingStrategy

**Sample Output:**

```
GET /api/plugins/build/staging/strategy1?buildName=build1&params=types=jar,war,zip
{
  "defaultModuleVersion": {
    "moduleId": "moduleId",
    "nextRelease": "nextRelease",
    "nextDevelopment": "nextDevelopment"
  },
  "vcsConfig": {
    "useReleaseBranch": true,
    "releaseBranchName": "branchName",
    "createTag": true,
    "tagUrlOrName": "tagUrl",
    "tagComment": "comment",
    "nextDevelopmentVersionComment": "comment"
  },
  "promotionConfig": {
    "targetRepository": "repoKey",
    "comment": "comment",
    "status": "statusName"
  }
}
```

## 2.14.6 | Execute Build Promotion

**Description:** Executes a named promotion closure found in the promotions section of a User Plugins.

**Since:** 2.5.2

**Notes:** Requires Artifactory Pro

**Security:** Requires an authenticated user.

**Usage:** POST /api/plugins/build/promote/{promotionName}/{buildName}/{buildNumber}?[params=p1=v1[,v2][|p2=v3]]

**Produces:** text/plain

**Sample Output:**

```
POST /api/plugins/build/promote/promotion1/build1/3?params=types=jar,war,zip
OK
```

## 2.14.7 | Reload Plugins

**Description:** Reloads user plugins if there are modifications since the last user plugins reload. Works regardless of the automatic user plugins refresh interval.

**Since:** 2.9.0

**Notes:** Requires Artifactory Pro

**Security:** Requires a valid admin user

**Usage:** POST /api/plugins/reload

**Produces:** text/plain

**Sample Output:**

```
POST /api/plugins/reload
Successfully loaded: myplugin1.groovy, myplugin2.groovy
```

## 2.14.8 | Live Logs Plugin

The following endpoints are used to enable the Live Log feature. Both endpoints are open only for **Artifactory Enterprise+** subscriptions, and require Admin permissions.

### Note

We recommend using the Live Log APIs in the JFrog CLI. For more information, see [JFrog Live Logs Readme](#).

### 2.14.8.1 | Get Live Logs Config

**Description:** Returns the Live Logs configuration. The configuration output contains the list of the available logs, the available Artifactory nodes, and the refresh rate.

**Note:** This feature is available only for Enterprise+ subscriptions.

**Since:** Artifactory 7.16.0

**Security:** Requires a privileged user (admin).

**Usage:** GET /api/system/logs/config

- **Artifactory:** api/system/logs/config
- **Xray, Pipelines and Distribution:** api/v1/system/logs/config

### Sample Usage

```
GET /api/system/logs/config
{
  "logs": [
    ...
  ]
```

```
],
  "nodes": [
...
],
  "refresh_rate_millis": 10000
}
```

#### 2.14.8.2 | Get Live Logs Data

**Description:** Returns the Live Logs data for the specified log ID.

Parameter	Description
Data Output	Contains the log content chuck (up to 300KB)
Last_update_modified value	The log file's last updated timestamp
Last_update_label value	The timestamp of the response
File_size value	The total size of the log file

**Note:** This feature is available only for Enterprise+ subscriptions.

**Since:** Artifactory 7.16.0

**Security:** Requires a privileged user (admin).

**Headers:** X-JFrog-Node-Id

**Usage:** GET /api/system/logs/data?id=log\_name[&file\_size=file\_size]

- **Artifactory:** api/system/logs/data
- **Xray, Pipelines and Distribution:** api/v1/system/logs/data

#### Sample Usage

```
GET /api/system/logs/data?id=some_log.log&file_size=0 -H "X-JFrog-Node-Id:node1"
{
  "last_update_modified": 1612869112882,
  "last_update_label": 1612869113059,
  "log_content": "...",
  "file_size": 45550
}
```

## 2.15 | IMPORT & EXPORT

### 2.15.1 | Import Repository Content

**Description:** Import one or more repositories.

**Since:** 2.2.2

**Security:** Requires a valid admin user

**Usage:** POST: /api/import/repositories

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### Requests Params:

path - The file system path to import from. This may point to a specific folder to import data for a single repository, or to the parent "repositories" folder to import data for all repositories.

repo - Empty/null repo -> all

metadata - Include metadata - default 1

verbose - Verbose - default 0

**Produces:** text/plain

### Sample Output:

```
POST: /api/import/repositories?path=pathToRepos&verbose=1
```

## 2.15.2 | Import System Settings Example

**Description:** Returns the default Import Settings JSON. From version 5.10, Artifactory maintains any security entities (users, groups, permissions and tokens) when doing a system import.

**Since:** 2.4.0

**Security:** Requires a valid admin user

**Usage:** GET: /api/import/system

**Produces:** application/json (application/vnd.org.jfrog.artifactory.system.ImportSettings+json)

### Sample Usage:

```
GET /api/import/system
{
  "importPath" : "/import/path",
  "includeMetadata" : true,
  "verbose" : false,
  "failOnError" : true,
  "failIfEmpty" : true
}
```

## 2.15.3 | Full System Import

**Description:** Import full system from a server local Artifactory export directory. From version 5.10, Artifactory maintains any security entities (users, groups, permissions and tokens) when doing a system import.

**Since:** 2.4.0

**Security:** Requires a valid admin user

**Usage:** POST: /api/import/system

**Consumes:** application/json (application/vnd.org.jfrog.artifactory.system.ImportSettings+json)

**Produces:** text/plain

### Sample Usage:

```
POST /api/import/system
{
  import-settings.json
}
```

## 2.15.4 | Export System Settings Example

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**Description:** Returned default Export Settings JSON.

**Since:** 2.4.0

**Security:** Requires a valid admin user

**Usage:** GET: /api/export/system

**Produces:** application/json (application/vnd.org.jfrog.artifactory.system.ExportSettings+json)

**Sample Usage:**

```
GET /api/export/system
{
  "exportPath" : "/export/path",
  "includeMetadata" : true,
  "createArchive" : false,
  "bypassFiltering" : false,
  "verbose" : false,
  "failOnError" : true,
  "failIfEmpty" : true,
  "m2" : false,
  "incremental" : false,
  "excludeContent" : false
}
```

### 2.15.5 | Export System

**Description:** Export full system to a server local directory.

**Since:** 2.4.0

**Security:** Requires a valid admin user

**Usage:** POST: /api/export/system

**Consumes:** application/json (application/vnd.org.jfrog.artifactory.system.ExportSettings+json)

**Produces:** text/plain

**Sample Usage:**

```
POST /api/export/system{ export-settings.json }
```

## 2.16 | RETENTION

The following APIs apply to the Release Bundles received in Artifactory.

### Note

The Retention feature is disabled by default and will need to be enabled by the customer.

### Important

Retention policies are designed to work with Postgres and Derby databases. Other databases are not officially supported.

### 2.16.1 | Query the Status of the Retention Service

**Description:** Gets the activation status of the retention policies.

### Warning

If enable is set to false, any bundles can be deleted even if they have been marked as keep (i.e., their keep status will be ignored).

**Security:** Requires admin privileges

## JFrog REST APIs Displayed in the header

**Usage:** GET /artifactory/api/v1/bundle/retention/config/enable

**Produces:** application/json

**Since:** 7.55.1

**Response:**

```
{  
    "enable": true|false  
}
```

### 2.16.2 | Set Retention Policies to Enabled

**Description:** Sets the Release Bundle retention policy to enabled.

**Warning:** If enable is set to false, any bundles can be deleted even if they have been marked as keep (i.e., their keep status will be ignored).

**Security:** Requires admin privileges

**Usage:** POST /artifactory/api/v1/bundle/retention/config/enable

**Produces:** N/A

**Since:** 7.55.1

**Sample Usage:**

BODY:

```
{  
    "enable":true  
}
```

### 2.16.3 | Get Retention Policy Configuration

**Description:** Gets the retention policies that were configured.

**Security:** Requires admin privileges

**Usage:** GET: /artifactory/api/v1/bundle/retention/config

**Produces:** application/json

**Since:** 7.55.1

**Response:**

```
{  
  
    "automatic": false,  
  
    "num_of_versions_to_keep_per_release_bundle": 2,  
  
    "max_days_to_keep": 1100,  
  
    "cron_pattern": "0 0 0 1 1 ? 2099",  
  
    "max_deletions_per_background_run": 100  
  
}
```

### 2.16.4 | Set the Retention Policy Configuration

## JFrog REST APIs Displayed in the header

**Description:** Sets the retention policies that were configured. If a Release Bundle meets one or more of the retention policies configured, the policy will be applied to it.

Note that you can set a partial configuration, but you cannot ‘unset’ a value - instead you will need to override it to change it.

**Security:** Requires admin privileges

**Usage:** POST /artifactory/api/v1/bundle/retention/config

**Produces:** N/A

**Since:** 7.55.1

**Sample Usage:**

BODY:

```
{  
    "automatic": true,  
  
    "num_of_versions_to_keep_per_release_bundle": 2,  
  
    "max_days_to_keep": 1100,  
  
    "cron_pattern": "0 0 0 ? * SUN *",  
  
    "max_deletions_per_background_run": 1000  
}
```

### 2.16.5 | Get the Configured Retention Policies List

**Description:** Finds the bundles that are candidates for retention according to the configuration type.

**Security:** Requires admin privileges

**Usage:** POST: /artifactory/api/v1/bundle/retention/report

**Produces:** application/json

**Since:** 7.55.1

**Sample Usage:**

QUERY\_PARAMS: offset, limit, order\_by, direction, pattern (name/version pattern)

offset - offset in set of all fitting bundle versions (fitting by retention config). Default is 0.

limit - maximum amount of items to return. Default is 100.

order\_by - "bundle\_name"|"bundle\_version"|"distribution\_time"|"keep". Default is "distribution\_time".

direction - "asc"|"desc". Default is "asc".

pattern - case insensitive name/version pattern, where "\*" is allowed as the wild card. Default is "\*".

BODY:

```
{  
    "include_keep": true,  
  
    "type": "MAX VERSIONS PER RELEASE BUNDLE" | "MAX DAYS TO KEEP"  
}  
  
response:
```

```
{  
  
  "total": 180,  
  
  "items": [  
  
    {  
  
      "bundle_name": "rb-0",  
  
      "bundle_version": "ver-18",  
  
      "creation_time": 1665488849956,  
  
      "distribution_time": 1665488849968,  
  
      "keep": true  
  
    },  
  
    {  
  
      "bundle_name": "rb-0",  
  
      "bundle_version": "ver-19",  
  
      "creation_time": 1665488850024,  
  
      "distribution_time": 1665488850041,  
  
      "keep": false  
  
    }  
  
  ]  
  
}
```

## 2.16.6 | Get the Retention Operations History

**Description:** Gets the history of the retention operations

**Security:** Requires admin privileges

**Usage:** GET /artifactory/api/v1/bundle/retention/audit

**Produces:** application/json

**Since:** 7.55.1

### Sample Usage:

QUERY\_PARAMS: offset, limit, order\_by, direction

offset - offset in a set of historical operations. Default is 0.

limit - maximum amount of items to return. Default is 100.

order\_by - "bundle\_name"|"bundle\_version"|"operation"|"created"|"created\_by". Default is "created".

direction - "asc"|"desc". Default is "desc".

response:

```
{  
  
  "total": 4,
```

## JFrog REST APIs Displayed in the header

```
"items": [  
    {  
        "bundle_name": "rb-2",  
        "bundle_version": "ver-23",  
        "operation": "DELETE" | "KEEP" | "UNKEEP",  
        "created": "2022-10-25T13:24:49.643+0200",  
        "created_by": "admin"  
    }  
]
```

### 2.16.7 | Delete Release Bundles

**Description:** Deletes the Release Bundles.

**Security:** Requires admin privileges

**Usage:** POST /artifactory/api/v1/bundle/retention/delete

**Produces:** application/json

**Since:** 7.55.1

**Sample Usage:**

QUERY\_PARAMS: dryRun

dryRun - true|false - when true no actual deletion will be performed, could be used for validation. Default is false.

BODY:

```
[  
    {  
        "bundle_name": "rb_1663499358771",  
        "bundle_version": "v1"  
    },  
    {  
        "bundle_name": "rb_1663499358771",  
        "bundle_version": "v3"  
    }  
]
```

### 2.16.8 | Mark Release Bundles to Keep (or Don't Keep)

**Description:** Sets the indicator to keep (indefinitely) or not keep (unkeep) Release Bundles.

**Security:** Requires admin privileges

**Usage:** POST /artifactory/api/v1/bundle/retention/keep

**Produces:** application/json

**Since:** 7.55.1

**Sample Usage:**

```
BODY:  
{  
    "keep": [  
        {  
            "bundle_name": "rb-2",  
            "bundle_version": "ver-23"  
        }  
    ],  
  
    "unkeep": [  
        {  
            "bundle_name": "rb-2",  
            "bundle_version": "ver-22"  
        }  
    ]  
}
```

## 2.17 | SYSTEM & CONFIGURATION

System & configuration APIs have been moved to the [JFrog Platform REST APIs documentation](#).

## 2.18 | XRAY

Xray APIs have been moved to the [Introduction to the Xray REST APIs documentation](#).

## 2.19 | SUPPORT

Support APIs have been moved to the [JFrog Platform REST APIs documentation](#).

## 2.20 | ACCESS

Access APIs have been moved to the [JFrog Platform REST APIs documentation](#).

## 2.21 | PROJECTS

Projects APIs have been moved to the [JFrog Platform REST APIs documentation](#).

## 2.22 | WEBHOOKS

Webhooks APIs have been moved to the [JFrog Platform REST APIs documentation](#).

## 2.23 | ROUTER

Router APIs have been moved to the [JFrog Platform REST APIs documentation](#).

## 2.24 | ERROR RESPONSES

In case of an error, Artifactory will return an error response in JSON format. The response contains the HTTP status code and error message.

For example, a badly formatted API call would return the '404, File not found" response below:

```
{  
  "errors" : [ {  
    "status" : 404,  
    "message" : "File not found."  
  } ]  
}
```

### Sample input:

```
POST /api/security/apiKey  
{  
  "apiKey": "30lopos0tVFyCMrT+cXmCAScmVMPsSYXkWIjiyDCXsY="  
}  
  
PUT /api/storage/libs-release-local/ch/qos/logback/logback-classic/0.9.9?properties=os=win,linux;qa=done&recursive=1
```

Use a semicolon - ; (recommended) When parameters can have multiple values, you can separate the items in one of the following ways:

- Use the encoding for the pipe ("|") character - %7C

Alternatively, you may configure your NGINX to encode URLs so that if an unencoded pipe is used in the URL, NGINX will encode it to %7C. We recommend that you verify that this configuration does not break any other systems served by NGINX

## 2.25 | Replication Configuration JSON

### Local Repository

[application/vnd.org.jfrog.artifactory.replications.ReplicationConfigRequest+json](#)

```
{  
  "username" : "admin",  
  "password" : "password",  
  "cronExp" : "0 0 12 * * ?",  
  "url" : "http://localhost:8081/artifactory/remote-repo",  
  "repoKey" : "libs-release-local",  
  "proxy" : "proxy-key",  
  "disableProxy" : false,  
  "socketTimeoutMillis" : 15000,  
  "enableEventReplication" : false,  
  "enabled" : false,  
  "syncDeletes" : false,  
  "syncProperties" : true,  
  "syncStatistics" : false,  
  "pathPrefix" : "/path/to/repo",  
  "includePathPrefixPattern" : "**/*",  
  "excludePathPrefixPattern" : ""  
}
```

# JFrog REST APIs

## Displayed in the header

Property	Required	Description
username	mandatory	The HTTP authentication username.
password	mandatory	Use either the HTTP authentication password or an identity token.
cronExp	mandatory	The cron expression that defines the replication task schedule.
url	mandatory	The URL of the target local repository on a remote Artifactory server. Use the format: <code>https://&lt;artifactory_url&gt;/artifactory/&lt;repository&gt;</code>
repoKey	optional	The name of the repo key to replicate.
proxy	optional	If this is not specified, it can be assigned the global default proxy.
disableProxy	optional	When set to <b>true</b> , the proxy field will be ignored (from version 7.41.7). The default value is <b>false</b> .
socketTimeoutMillis	optional	The network timeout in milliseconds to use for remote operations. The default value is <b>15000</b> milliseconds.
enableEventReplication	optional	When set, each event will trigger replication of the artifacts changed in this event. This can be any type of event on artifact, e.g. add, deleted or property change. The default value is <b>false</b> .
enabled	optional	When set, enables the replication of the specified repository to the specified target. The default value is <b>false</b> .

Property	Required	Description
syncDeletes	optional	<p>When set, items that were deleted locally should also be deleted remotely (also applies to properties metadata). The default value is <b>false</b>.</p> <p><b>Warning</b></p> <p>Enabling this option will delete artifacts on the target that do not exist in the source repository.</p>
syncProperties	optional	When set, the task also synchronizes the properties of replicated artifacts. The default value is <b>true</b> .
syncStatistics	optional	When set, the task also synchronizes artifact download statistics. Set to avoid inadvertent cleanup at the target instance when setting up replication for disaster recovery. The default value is <b>false</b> .
pathPrefix	optional	When set, only artifacts located in the path that matches the subpath within the repository will be replicated.
includePathPrefixPattern	optional	Defines a pattern of artifacts to include in the path prefix.
excludePathPrefixPattern	optional	Defines a pattern of artifacts to exclude from the path prefix.

## Remote Repository

[application/vnd.org.jfrog.artifactory.replications.ReplicationConfigRequest+json](#)

```
{
  "cronExp" : "0 0 12 * * ?",
  "repoKey" : "libs-release-local",
  "enableEventReplication" : false,
  "enabled" : false,
  "syncDeletes" : false,
  "syncProperties" : true,
  "syncStatistics" : false,
  "pathPrefix" : "/path/to/repo",
  "includePathPrefixPattern" : "**/*",
  "excludePathPrefixPattern" : ""
}
```

# JFrog REST APIs

## Displayed in the header

Property	Required	Description
cronExp	mandatory	The cron expression that defines the replication task schedule.
repoKey	optional	The name of the repo key to replicate.
enableEventReplication	optional	When set, each event will trigger replication of the artifacts changed in this event. This can be any type of event on artifact, e.g. add, deleted or property change. The default value is <b>false</b> .
enabled	optional	When set, enables the replication of the specified repository to the specified target. The default value is <b>false</b> .
syncDeletes	optional	When set, items that were deleted locally should also be deleted remotely (also applies to properties metadata). The default value is <b>false</b> .
		<b>Warning</b>
		Enabling this option will delete artifacts on the target that do not exist in the source repository.
syncProperties	optional	When set, the task also synchronizes the properties of replicated artifacts. The default value is <b>true</b> .
syncStatistics	optional	When set, the task also synchronizes artifact download statistics. Set to avoid inadvertent cleanup at the target instance when setting up replication for disaster recovery. The default value is <b>false</b> .
pathPrefix	optional	When set, only artifacts located in the path that matches the subpath within the repository will be replicated.
includePathPrefixPattern	optional	Defines a pattern of artifacts to include in the path prefix.
excludePathPrefixPattern	optional	Defines a pattern of artifacts to exclude from the path prefix.

## 2.26 | Repository Configuration JSON

### Repository Configuration JSON

#### Legend

Element	Description
+	Mandatory element in create/replace queries (optional in "update" queries)
-	Optional element in create/replace queries
(default)	The default value when unspecified in create/replace queries

#### Local Repository

application/vnd.org.jfrog.artifactory.repositories.LocalRepositoryConfiguration+json

```
{
  - "key": "local-repo1",
  - "projectKey": "projx",
  - "environments": ["DEV"] (mandatory when assigning repo to project),
  + "rclass": "local",
  - "packageType": "alpine"|"cargo"|"composer"|"bower"|"chef"|"cocoapods"|"conan"|"conda"|"cran"|"debian"|"docker"|"helm"|"helmoci"|"huggingface"
  ml"|"gems"|"gitlfs"|"go"|"gradle"|"ivy"|"maven"|"npm"|"nuget"|"oci"|"opkg"|"pub"|"puppet"|"pypi"|"rpm"|"sbt"|"swift"|"terrafo
  rm"|"terraformbackend"|"vagrant"|"ansible"|"generic" (default)
  - "description": "The local repository public description",
  - "notes": "Some internal notes",
  - "includesPattern": "**/*" (default),
  - "excludesPattern": "" (default),
  - "repoLayoutRef": "maven-2-default" (default),
  - "debianTrivialLayout": false,
  - "checksumPolicyType": "client-checksums" (default) | "server-generated-checksums"
  - "handleReleases": true (default),
  - "handleSnapshots": true (default),
  - "maxUniqueSnapshots": 0 (default),
  - "maxUniqueTags": 0 (default),
  - "snapshotVersionBehavior": "unique"(default) | "non-unique" | "deployer", #Specifies the naming convention for Maven
  SNAPSHOT versions. From release 7.41, this default changed from "non-unique" to "unique" and affects both local and federated
  repositories
  - "suppressPomConsistencyChecks": false (default),
  - "blackedOut": false (default),
  - "xrayIndex": false (default),
  - "propertySets": ["ps1", "ps2"],
  - "archiveBrowsingEnabled": false,
  - "calculateYumMetadata": false,
  - "yumRootDepth": 0,
  - "dockerApiVersion": "V2" (default),
  - "terraformType": "MODULE"|"PROVIDER",
  - "enableFileListsIndexing": "false" (default),
  - "optionalIndexCompressionFormats": ["bz2", "lzma", "xz"],
  - "downloadRedirect": "false" (default),
  - "cdnRedirect": "false" (default, Applies to Artifactory Cloud Only),
  - "blockPushingSchema1": "false",
  - "primaryKeyPairRef": "mygpgkey",
  - "secondaryKeyPairRef": "mysecgpgkey",
  - "forceNugetAuthentication": false (default),
  - "forceP2Authentication": false (default),
  - "forceConanAuthentication": false (default),
  - "priorityResolution": "false" (default, Applies to all repository types excluding CocoaPods, Git LFS, NuGet V2, Opkg,
```

# JFrog REST APIs Displayed in the header

```
Rust, Vagrant and VCS repositories)
}
```

## Remote Repository

application/vnd.org.jfrog.artifactory.repositories.RemoteRepositoryConfiguration+json

```
{
  - "key": "remote-repo1",
  - "projectKey": "projx",
  - "environments": ["DEV"] (mandatory when assigning repo to project),
  + "rclass" : "remote",
  - "packageType":
    "alpine"|"cargo"|"composer"|"bower"|"chef"|"cocoapods"|"conan"|"conda"|"cran"|"debian"|"docker"|"helm"|"helmoci"|"huggingface
    ml"|"gems"|"gitlfs"|"go"|"gradle"|"ivy"|"maven"|"npm"|"nuget"|"oci"|"opkg"|"pub"|"puppet"|"pypi"|"rpm"|"sbt"|"swift"|"terrafo
    rm"|"ansible"|"generic" (default)
  + "url" : "http://host:port/some-repo",
  - "username": "remote-repo-user",
  - "password": "pass",
  - "proxy": "proxy1",
  - "disableProxy": false (default),
  - "description": "The remote repository public description",
  - "notes": "Some internal notes",
  - "includesPattern": "**/*" (default),
  - "excludesPattern": "" (default),
  - "repoLayoutRef" : "maven-2-default",
  - "remoteRepoLayoutRef" : "" (default),
  - "remoteRepoChecksumPolicyType": "generate-if-absent" (default) | "fail" | "ignore-and-generate" | "pass-thru",
  - "handleReleases": true (default),
  - "handleSnapshots": true (default),
  - "maxUniqueSnapshots": 0 (default),
  - "suppressPomConsistencyChecks": false (default),
  - "hardFail": false (default),
  - "offline": false (default),
  - "blackedOut": false (default),
  - "storeArtifactsLocally": true (default),
  - "socketTimeoutMillis": 15000 (default),
  - "localAddress": "212.150.139.167",
  - "retrievalCachePeriodSecs": 7200 (default),
  - "missedRetrievalCachePeriodSecs": 1800 (default),
  - "unusedArtifactsCleanupPeriodHours": 0 (default),
  - "assumedOfflinePeriodSecs" : 300 (default),
  - "fetchJarsEagerly": false (default),
  - "fetchSourcesEagerly": false (default),
  - "shareConfiguration": false (default),
  - "synchronizeProperties": false (default),
  - "blockMismatchingMimeTypes" : true (default),
  - "xrayIndex": false (default),
  - "propertySets": ["ps1", "ps2"],
  - "allowAnyHostAuth": false (default),
  - "enableCookieManagement": false (default),
  - "enableTokenAuthentication": false (default),
  - "forceNugetAuthentication": false (default),
  - "forceP2Authentication": false (default),
  - "forceConanAuthentication": false (default),
  - "metadataRetrievalTimeoutSecs": 60 (default),
  - "bowerRegistryUrl": "https://registry.bower.io" (default),
  - "gitRegistryUrl": "https://github.com/rust-lang/crates.io-index" (default),
  - "composerRegistryUrl": "https://packagist.org" (default),
  - "pypiRegistryUrl": "https://pypi.org" (default),
  - "vcsType": "GIT" (default),
  - "vcsGitProvider": "GITHUB" (default) | "GITHUBENTERPRISE" | "BITBUCKET" | "OLDSTASH" | "STASH" | "ARTIFACTORY" |
  "CUSTOM",
  - "vcsGitDownloadUrl": "" (default),
  - "bypassHeadRequests" : false (default),
  - "clientTlsCertificate": "" (default),
  + "externalDependenciesEnabled": false (default, Applies to Docker repositories only),
  - "externalDependenciesPatterns": [ "**/*microsoft/**", "**/*github/**" ] (Applies to Docker repositories only)
  - "downloadRedirect" : "false" (default),
  - "cdnRedirect": "false" (default, Applies to Artifactory Cloud Only),
```

# JFrog REST APIs Displayed in the header

```
- "feedContextPath": "api/v2",
- "downloadContextPath": "api/v2/package",
- "v3FeedUrl": "https://api.nuget.org/v3/index.json",
- "listRemoteFolderItems": "false" (default),
- "contentSynchronisation": {
    "enabled": false (default),
    "statistics": {
        "enabled": false (default)
    },
    "properties": {
        "enabled": false (default)
    },
    "source": {
        "originAbsenceDetection": false (default)
    }
},
- "blockPushingSchema1": false,
- "priorityResolution": false (default, Applies to all repository types excluding CocoaPods, Git LFS, NuGet V2, Opkg, Rust, Vagrant and VCS repositories),
- "disableUrlNormalization": false (default)
}
```

## Virtual Repository

application/vnd.org.jfrog.artifactory.repositories.VirtualRepositoryConfiguration+json

```
{
- "key": "virtual-repo1",
- "projectKey": "projx",
- "environments": ["DEV"] (mandatory when assigning repo to project),
+ "rclass" : "virtual",
+ "packageType": "alpine" | "composer" | "bower" | "chef" | "conan" | "conda" | "cran" | "debian" | "docker" | "helm" | "helmoci" | "huggingfaceml" | "gems" | "gitlfs" | "go" | "gradle" | "ivy" | "maven" | "npm" | "nuget" | "oci" | "pub" | "puppet" | "pypi" | "rpm" | "sbt" | "swift" | "terraform" | "ansible" | "generic" (default)
- "repositories": ["local-rep1", "local-rep2", "remote-rep1", "virtual-rep2"]
- "description": "The virtual repository public description",
- "notes": "Some internal notes",
- "includesPattern": "**/*" (default),
- "excludesPattern": "" (default),
- "repoLayoutRef": "maven-2-default",
- "debianTrivialLayout" : false,
- "debianDefaultArchitectures" : "arm64,amd64", (applies to Debian repositories only),
- "artifactoryRequestsCanRetrieveRemoteArtifacts": false,
- "keyPair": "keypair1",
- "pomRepositoryReferencesCleanupPolicy": "discard_active_reference" (default) | "discard_any_reference" | "nothing"
- "defaultDeploymentRepo": "local-rep1",
- "optionalIndexCompressionFormats": ["bz2", "lzma", "xz"],
- "forceMavenAuthentication": false, (default - Applies to Maven repositories only),
+ "externalDependenciesEnabled": false (default - Applies to Bower, npm and Go repositories only),
- "externalDependenciesPatterns": [ "**/*microsoft/**", "**/*github/**" ] (Applies to Bower, npm and Go repositories only),
- "externalDependenciesRemoteRepo": "" (Applies to Bower and npm repositories only),
- "primaryKeyPairRef": "mygpgkey",
- "secondaryKeyPairRef": "mysecgpgkey"
}
```

## Federated Repository

application/vnd.org.jfrog.artifactory.repositories.FederatedRepositoryConfiguration+json

```
{
- "key": "federated-repo1",
- "projectKey": "projx",
- "environments": ["DEV"] (mandatory when assigning repo to project),
+ "rclass" : "federated",
- "packageType": "alpine" | "maven" | "gradle" | "ivy" | "sbt" | "helm" | "helmoci" | "huggingfaceml" | "cargo" | "cocoapods" | "opkg" | "rpm" | "nuget" | "cran" | "gems" | "npm" | "bower" | "debian" | "composer" | "oci" | "pypi" | "docker" | "vagrant" | "gitlfs" | "go" | "ansible" | "conan" | "conda" | "chef" | "puppet" | "generic" (default)
- "members": [{"url": "http://targetartifactory/artifactory/repositoryName", "enabled": "true"}, {"url": "full URL to
```

# JFrog REST APIs Displayed in the header

```
ending with the repositoryName", "enabled": "true by default. represents the active state of the federated member. it is supported to change the enabled status of my own member. the config will be updated on the other federated members automatically."} ] //If a Federated member receives a request that does not include the repository URL, it will automatically be added with the combination of the configured base URL
    and "key" field value. Note that each of the federated members will need to have a base URL set,
- "description": "The federated repository public description",
- "proxy": "proxy-key",
- "disableProxy": false (default),
- "notes": "Some internal notes",
- "includesPattern": "**/*" (default),
- "excludesPattern": "" (default),
- "repoLayoutRef" : "maven-2-default" (default),
- "debianTrivialLayout" : false,
- "checksumPolicyType": "client-checksums" (default) | "server-generated-checksums"
- "handleReleases": true (default),
- "handleSnapshots": true (default),
- "maxUniqueSnapshots": 0 (default),
- "maxUniqueTags": 0 (default),
- "snapshotVersionBehavior": "unique" (default) | "non-unique" | "deployer",
- "suppressPomConsistencyChecks": false (default),
- "blackedOut": false (default),
- "xrayIndex" : false (default),
- "propertySets": ["ps1", "ps2"],
- "archiveBrowsingEnabled" : false,
- "calculateYumMetadata" : false,
- "yumRootDepth" : 0,
- "dockerApiVersion" : "V2" (default),
- "enableFileListsIndexing" : "false" (default),
- "optionalIndexCompressionFormats" : ["bz2", "lzma", "xz"],
- "downloadRedirect" : "false" (default),
- "cdnRedirect": "false" (default, Applies to Artifactory Cloud Only),
- "blockPushingSchema1": "false",
- "primaryKeyPairRef": "myggpkey",
- "secondaryKeyPairRef": "mysecgpgkey",
- "priorityResolution": false (default, Applies to all repository types excluding CocoaPods, Git LFS, NuGet V2, Opkg, RPM, Rust, Vagrant and VCS repositories)
}
```

## 2.27 | Build Artifacts Request JSON

The Build Artifacts Request JSON is consumed by the following REST API endpoints:

- [Build Artifacts Search](#)
- [Retrieve Build Artifacts Archive](#)

```
{
  "buildName": "build-name",
  "buildNumber": "",
  "buildStatus": "Released",
  "buildRepo": "",
  "project": "Catalina",
  "repos": [ "lib-release-local", "ext-release-local" ],
  "archiveType": "tar.gz",
  "mappings": [ { "input": "(.+)/(.+)-sources.jar", "output": "$1/sources/$2.jar" }, { "input": "(.+)-release.zip", "output": "" } ]
}
```

Property	Required	Description
buildName	mandatory	The build from which to get artifacts.

Property	Required	Description
buildNumber	mandatory (see note)	The build number from which to get artifacts. Use LATEST to use the latest build.
buildStatus	mandatory (see note)	The build status from which to get artifacts.  <b>Important</b>  You can define <i>either</i> the buildNumber or the buildStatus, but not both.
buildRepo	optional	The repository where the build is located.
project	optional	The project related to the build.
repos	optional	When set, limits the search to the repositories defined here.
archiveType	mandatory	The archive type to send back to the user. Options include: zip, tar, tar.gz, tgz, tar.bz2
mappings	optional	Refines the search using a list of regexp input and output patterns.

## 2.28 | Security Configuration JSON

### Legend

Element	Description
+	Mandatory element in create/replace queries, optional in "update" queries
-	Optional element in create/replace queries
!	Read-only element
(default)	The default value when unspecified in create/replace queries

## JFrog REST APIs Displayed in the header

application/vnd.org.jfrog.artifactory.security.User+json

```
{  
    - "name": "davids",  
    + "email" : "davids@jfrog.com",  
    + "password": "****" (write-only, never returned),  
    - "admin": false (default),  
    - "profileUpdatable": true (default),  
    - "disableUIAccess" : true,  
    - "internalPasswordDisabled": false (default),  
    ! "lastLoggedIn": ISO8601 (yyyy-MM-dd'T'HH:mm:ss.SSSZ),  
    ! "realm": "Realm name (e.g. internal, saml, oauth, ldap, crowd, scim)",  
    - "groups" : [ "deployers", "users" ],  
    - "watchManager": false(default),  
    - "policyManager": false(default)  
}
```

application/vnd.org.jfrog.artifactory.security.Group+json

```
{  
    - "name": "dev-leads",  
    - "description" : "The development leads group",  
    - "autoJoin" : false (default, must be false if adminPrivileges is true),  
    - "adminPrivileges" : false (default),  
    - "realm": "Realm name (e.g. internal, saml, ldap, crowd, scim)",  
    - "realmAttributes": "Realm attributes for use by LDAP"  
    - "userNames" : [ "user1", "user2", "user3" ] //available from version 6.13 only for Update Group requests  
    - "watchManager": false(default),  
    - "policyManager": false(default),  
    - "reportsManager": false (default)  
    - "externalId" : "123"  
}
```

application/vnd.org.jfrog.artifactory.security.PermissionTarget+json

Permissions are set/returned according to the following conventions:

m=admin; d=delete; w=deploy; n=annotate; r=read; mxm=managedXrayMeta; x=distribute

name - limited to 64 characters

includePattern/excludePattern - limited to 1024 characters

```
{  
    - "name": "populateCaches",  
    - "includesPattern": "**" (default),  
    - "excludesPattern": "" (default),  
    + "repositories": ["local-rep1", "local-rep2", "remote-rep1"], // Permission targets are not supported for Virtual repositories.  
    - "principals": {  
        "users" : {  
            "bob": [ "r", "w", "m" ],  
            "alice" : [ "d", "w", "n", "r" ]  
        },  
        "groups" : {  
            "dev-leads" : [ "m", "r", "n" ],  
            "readers" : [ "r" ]  
        }  
    }  
}
```

application/vnd.org.jfrog.artifactory.security.PermissionTargetV2+json

Permissions are set/returned according to the following conventions:

read, write, annotate, delete, manage, managedXrayMeta, distribute

You can specify the name "ANY" in the repositories section in order to apply to all repositories, "ANY REMOTE" for all remote repositories and "ANY LOCAL" for all local repositories.

# JFrog REST APIs Displayed in the header

```
{  
  - "name": "java-developers",  
  - "repo": {  
    - "include-patterns": ["**"] (default),  
    - "exclude-patterns": [] (default),  
    + "repositories": ["local-rep1", "local-rep2", "remote-rep1"],  
    - "actions": {  
      "users": {  
        "bob": ["read", "write", "manage"],  
        "alice": ["write", "annotate", "read"]  
      },  
      "groups": {  
        "dev-leads": ["manage", "read", "annotate"],  
        "readers": ["read"]  
      }  
    }  
  }  
}  
- "build": {  
  - "include-patterns": [] (default),  
  - "exclude-patterns": [] (default),  
  + "repositories": ["artifactory-build-info"] (default, can't be changed),  
  - "actions": {  
    "users": {  
      "bob": ["read", "manage"],  
      "alice": ["write"]  
    },  
    "groups": {  
      "dev-leads": ["manage", "read", "write", "annotate", "delete"],  
      "readers": ["read"]  
    }  
  }  
}  
- "releaseBundle": {  
  - "include-patterns": ["**"],  
  - "exclude-patterns": [],  
  + "repositories": ["release-bundles"],  
  - "actions": {  
    "users": {  
      "user_name": ["read", "write" etc..]  
    },  
    "groups": {  
      "group_name": ["read", "write" etc..]  
    }  
  }  
}  
}
```

## 2.29 | System Settings JSON

application/vnd.org.jfrog.artifactory.system.ImportSettings+json

```
{  
  "importPath" : "/import/path",  
  "includeMetadata" : true,  
  "verbose" : false,  
  "failOnError" : true,  
  "failIfEmpty" : true  
}
```

Property	Required	Description
importPath	mandatory	A path to a directory on the local file system of the Artifactory server.

# JFrog REST APIs

## Displayed in the header

Property	Required	Description
includeMetadata	optional	<p>Determines whether to include metadata during the import. The default value is <b>true</b>.</p> <p><b>Note</b></p> <p>Docker repositories must have their metadata intact. Maven 2 metadata is unaffected by this setting.</p>
verbose	optional	<p>Determines whether to operate in verbose mode, which provides greater detail at the expense of overall performance. The default value is <b>false</b>.</p>
failOnError	optional	<p>Determines whether the import operation fails as soon as an error occurs. The default value is <b>true</b>.</p>
failIfEmpty	optional	<p>Determines whether the import operation fails if the system detects that the repository is empty. The default value is <b>true</b>.</p>

application/vnd.org.jfrog.artifactory.system.ExportSettings+json

```
{
  "exportPath" : "/export/path",
  "includeMetadata" : true,
  "createArchive" : false,
  "bypassFiltering" : false,
  "verbose" : false,
  "failOnError" : true,
  "failIfEmpty" : true,
  "m2" : false,
  "incremental" : false,
  "excludeContent" : false
}
```

Property	Required	Description
exportPath	mandatory	<p>A path to a directory on the local file system of the Artifactory server.</p>
includeMetadata	optional	<p>Determines whether to include metadata during the export. The default value is <b>true</b>.</p> <p><b>Note</b></p> <p>Docker repositories must have their metadata intact. Maven 2 metadata is</p>

# JFrog REST APIs Displayed in the header

Property	Required	Description
		unaffected by this setting.
createArchive	optional	Determines whether to create and export to a Zip archive. (This option is slow and CPU-intensive!). The default value is <b>false</b> .
bypassFiltering	optional	Determines whether to ignore existing repository content filtering rules during the export process. The default value is <b>false</b> (meaning the filtering rules are not ignored).
verbose	optional	Determines whether to operate in verbose mode, which provides greater detail at the expense of overall performance. The default value is <b>false</b> .
failOnError	optional	Determines whether the import operation fails as soon as an error occurs. The default value is <b>true</b> .
failIfEmpty	optional	Determines whether the import operation fails if the system detects that the repository is empty. The default value is <b>true</b> .
m2	optional	Determines whether to include Maven 2 repository metadata and checksum files as part of the export. The default value is <b>false</b> .
incremental	optional	Determines whether the export should be incremental, which means only changes from the previous run will be backed up, which results in a faster process. The default value is <b>false</b> .
excludeContent	optional	When performing a full system export, this option determines whether to perform a pure configuration export without content. The default value is <b>false</b> .

application/vnd.org.jfrog.artifactory.system.Version+json

```
{
  "version" : "2.2.2",
  "revision" : "10427",
```

## JFrog REST APIs Displayed in the header

```
"addons" : [ "build", "ldap", "properties", "rest", ... ]  
}
```

Property	Description
version	The Artifactory version number.
revision	The revision number.
addons	The list of active add-ons.

## 3 | Artifactory REST API V2

This documentation includes all the REST APIs V2 for JFrog Artifactory.

### 3.1 | Introduction to the Artifactory REST APIs V2

The following V2 REST APIs apply for Artifactory version 6.6.0 and above. They are extensions for [Artifactory REST APIs](#) with additional functionalities.

### 3.2 | PERMISSION TARGETS

#### Note

It is recommended that users with Artifactory 7.72.0 or later use the [Access APIs](#) for permission targets.

#### 3.2.1 | Get Permission Targets

**Description:** Get the permission targets list for repository and build permission targets.

**Since:** 6.6.0

**Notes:** Requires Artifactory Pro.

**Security:** Requires an admin user or a user with Manage permission on permission target.

**Usage:** GET /api/v2/security/permissions

**Produces:** application/vnd.org.jfrog.artifactory.security.PermissionTargetV2+json

**Sample Output:**

```
curl --location 'http://example.jfrog.io/artifactory/api/v2/security/permissions' \  
--header 'Accept: application/json' \  
--header 'Authorization: Bearer ****'  
  
[  
  {  
    "name": "readSourceArtifacts"  
    "uri" : "http://localhost:8081/artifactory/api/v2/security/permissions/readSourceArtifacts"  
  }, {  
    "name": "populateCaches"  
    "uri" : "http://localhost:8081/artifactory/api/v2/security/permissions/populateCaches"  
  }  
]
```

### 3.2.2 | Get Permission Target Details

**Description:** Get the details of an Artifactory Permission Target

**Since:** 6.6.0

**Notes:** Requires Artifactory Pro.

**Security:** Requires an admin user or a user with Manage permission on permission target

**Usage:**> GET /api/v2/security/permissions/{permissionTargetName}

**Produces:** : application/vnd.org.jfrog.artifactory.security.PermissionTargetV2+json

**Sample Output:**

```
GET /api/v2/security/permissions/populateCaches
{
  permission-target.json
}
```

### 3.2.3 | Create or Replace Permission Target

**Description:** Creates a new permission target in the JFrog Unified Platform or replaces an existing permission target.

**Notes**

- Requires Artifactory Pro
- Missing values will be set to the default values as defined by the consumed type
- Please note when adding Release Bundles permission targets
- Requires an Edge/Enterprise+ license:
  - On Edge nodes, the repositories section in the request body can be left empty or contain the ‘release-bundles’ default repository. No other repositories are allowed. An Enterprise+ license allows you to add any repository
  - The default repository in the repository section is “release-bundles” for both Edge/EntPlus licenses. (if user create permission target with empty repositories section the repository that we put is “release bundles”)
- To support spaces in the User or Group or Permission names, a Plus symbol ('+') is automatically placed when there is a space. This is set by default as the artifactory. security.api.plus.insteadof.space property is set to true. If you want to use the + (plus) symbol, set the artifactory. security.api.plus.insteadof.space to false.

**Security:** Requires an admin user

**Usage:** PUT /api/v2/security/permissions/{permissionTargetName}

**Consumes:** application/json

**Sample Usage:**

```
PUT /api/v2/security/permissions/populateCaches
{
  permission-target.json
}
```

### 3.2.4 | Permission Target Existence Check

**Description:** Get the existence details of an Artifactory Permission Target

**Since:** 6.6.0

**Notes:** Requires Artifactory Pro.

**Security:** Requires an admin user or a user with Manage permission on permission target

## JFrog REST APIs Displayed in the header

**Usage:** HEAD /api/v2/security/permissions/{permissionTargetName}

**Produces:** 200 OK in case it exists, 404 NOT FOUND in case it doesn't, with an empty response.

**Sample Output:**

```
HEAD /api/v2/security/permissions/populateCaches
```

```
200 OK
```

```
or
```

```
404 NOT FOUND
```

### 3.2.5 | Create Permission Target

**Description:** Creates a new permission target in Artifactory or replaces an existing permission target

**Since:** 6.6.0

**Notes:** Requires Artifactory Pro

- Missing values will be set to the default values as defined by the consumed type.

- To support spaces in the User or Group or Permission names, a Plus symbol ('+') is automatically placed when there is a space. This is set by default as the security.api.plus.insteadof.space property is set to true. If you want to use the + (plus) symbol, set the security.api.plus.insteadof.space to false.

**Security:** Requires an admin user

**Usage:** POST /api/v2/security/permissions/{permissionTargetName} -H "Content-Type: application/json"

**Consumes:** application/vnd.org.jfrog.artifactory.security.PermissionTargetV2+json

**Produces:** 201 CREATED in case of success, with an empty response.

**Sample Usage:**

```
POST /api/v2/security/permissions/populateCaches -H "Content-Type: application/json"
{
  permission-target.json
}
```

```
201 CREATED
```

### 3.2.6 | Update Permission Target

**Description:** Creates a new permission target in Artifactory or replaces an existing permission target

**Since:** 6.6.0

**Notes:** Requires Artifactory Pro

Missing permission target **values** will be set to the default values as defined by the consumed type.

The values defined in the request payload will replace what currently exists in the permission target entity. In case the request is missing one of the permission target **entities** (*repo/build*), the entity will be deleted. This means that if an update request is sent to an entity that contains both repo and builds, with only repo, the build values will be removed from the entity.

**Security:** Requires an admin user or a user with *Manage* permission on permission target.

User with *Manage* permission can only edit the *actions*.

**Usage:** PUT /api/v2/security/permissions/{permissionTargetName}

**Consumes:** application/vnd.org.jfrog.artifactory.security.PermissionTargetV2+json

**Produces:** 200 OK in case of success, with an empty response.

**Sample Usage:**

```
PUT /api/v2/security/permissions/populateCaches
{
  permission-target.json
}

200 OK
```

### 3.2.7 | Get Permission Targets Per User

**Description:** Get the permission targets list for repository and build permission targets for a specific user.

**Since:** 6.9.0

**Notes:** Requires Artifactory Pro.

- Permission targets are not supported for Virtual repositories.

**Security:** Requires an admin user or a user with Manage permission on permission target

**Usage:** GET /api/v2/security/permissions/users/<user\_name>

**Sample Output:**

```
[{
  "name": "permission-target-name",
  "repo": {
    "include-patterns": ["**"],
    "exclude-patterns": [],
    "repositories": ["local-rep1", "local-rep2", "remote-rep1"],
    "actions": ["read", "write", "manage"]
  },
  "build": {
    "include-patterns": [],
    "exclude-patterns": [],
    "repositories": ["artifactory-build-info"],
    "actions": ["read", "manage"]
  }
},
{...},
{...}]
```

### 3.2.8 | Get Permission Targets Per Group

**Description:** Get the permission targets list for the repository and build permission targets for a specific group.

**Since:** 6.9.0

**Notes:** Requires Artifactory Pro.

- To support spaces in the User or Group or Permission names, a Plus symbol (+) is automatically placed when there is a space. This is set by default as the `security.api.plus.insteadof.space` property is set to true. If you want to use the + (plus) symbol, set the `security.api.plus.insteadof.space` to false.

- Permission targets are not supported for Virtual repositories.

**Security:** Requires an admin user or a user with Manage permission on permission target

**Usage:** GET /api/v2/security/permissions/groups/<group\_name>

**Sample Output:**

```
[{
  "name": "permission-target-name",
  "repo": {
    "include-patterns": ["**"],
```

```
"exclude-patterns": [],
"repositories": ["local-rep1", "local-rep2", "remote-rep1", "virtual-rep"],
"actions": ["read","write","manage"]
}
"build": {
  "include-patterns": [],
  "exclude-patterns": [],
  "repositories": ["artifactory-build-info"],
  "actions": ["read","manage"]
}
},
{...},
{...}]
```

### 3.2.9 | Delete Permission Target

**Description:** Deletes an Artifactory permission target.

**Since:** 6.6.0

**Notes:** Requires Artifactory Pro

- To support spaces in the User or Group or Permission names, a Plus symbol ('+') is automatically placed when there is a space. This is set by default as the `security.api.plus.insteadof.space` property is set to true. If you want to use the + (plus) symbol, set the `security.api.plus.insteadof.space` to false.

**Security:** Requires an admin user

**Usage:** `DELETE /api/v2/security/permissions/{permissionTargetName}`

**Produces:** 200 OK in case of success, with an empty response.

**Sample usage:**

```
DELETE /api/v2/security/permissions/populateCaches
```

```
200 OK
```

## 4 | JFrog Platform REST APIs

This documentation includes all the REST APIs for JFrog Platform.

- SYSTEM & CONFIGURATION
- ROUTER
- Users
- Groups
- Permissions
- ACCESS
- SUPPORT
- ENVIRONMENTS
- JFConnect
- WEBHOOKS
- Authentication Providers Configuration REST APIs
- PROJECTS
- GLOBAL ROLES
- Workers REST APIs
- MyJFrog Portal REST APIs

## 4.1 | Introduction to the JFrog Platform REST APIs

The JFrog Platform provides a convenient and up-to-date self-descriptive API that can be used by various tools/frameworks to automate the creation of REST calls.

This document includes information needed for REST API automation with the JFrog Platform.

### Usage

The JFrog Platform REST API endpoints can be invoked in any of the standard ways to invoke a RESTful API. This section describes how to use the Platform REST API using cURL as an example.

### Using and Configuring cURL

Example: /repo-key/path/to/artifact.ext

You can download cURL [here](#). and learn how to use and configure cURL [here](#).

### Authentication

JFrog Platform's REST API supports these forms of authentication:

- Basic authentication using your username and password
- Using Access Tokens instead of a password for basic authentication
- Using Access Tokens as a bearer token in an authorization header (Authorization: Bearer) with your access token
- For MyJFrog authentication, see Generate a Token in MyJFrog

### Base URL

The REST URL is constructed of:

`http://<JFROG_PLATFORM_URL>:<ROUTER_PORT>/access/api/v1/`

For example:

`http://localhost:8082/access/api/v1/`

## JFrog REST APIs Displayed in the header

### Working with the JFrog Platform on the Cloud

The JFrog Platform on the Cloud offers the same extensive functionality and capabilities for automation as a self-hosted installation, including authentication, use of JFrog CLI, and the REST API endpoints.

As a Cloud service, the URL is different from a self-hosted installation and the REST API endpoints can be reached at:

`https://<Server Name>.jfrog.io`

#### Example

The snippets below apply the same described above to an Artifactory Cloud instance named "myArtifactoryCloud" (instead of to a self-hosted installation).

To deploy the file using your **username and password** for authentication, you would use the following command:

#### Using cURL with a bearer token

```
curl -u myUser:myP455w0rd! -X PUT "https://myartifactorycloud.jfrog.io/artifactory/my-repository/my/new/artifact/directory/file.txt" -T Desktop/myNewFile.txt
```

#### Using JFrog CLI

```
jfrog rt u file.txt my-repository/my/new/artifact/directory/ --user=myUser --password=myP455w0rd!
```

Note that using JFrog CLI is identical with an Artifactory Cloud instance. You only need to **configure JFrog CLI** with the correct URL for your instance.

## 4.2 | SYSTEM & CONFIGURATION

### 4.2.1 | System Info

**Description:** System Info

Get general system information.

**Since:** 2.2.0

**Security:** Requires a valid admin user

**Usage:** GET /api/system

**Produces:** text/plain

**Sample Output:**

```
GET /api/system
```

```
system info output text
```

### 4.2.2 | System Health Ping

**Description:** Get a simple status response about the state of Artifactory.

**Since:** 2.3.0

**Security:** Requires a valid user (can be anonymous).

**Usage:** GET /api/system/ping

**Produces:** text/plain

**Sample Output:**

```
GET /api/system/ping
OK
```

**Response status codes:**

**200** - Successful request with an 'OK' text if Artifactory is working properly, if not will return an HTTP error code with a reason.

#### 4.2.3 | Readiness Probe

**Description:** The readiness probe, which essentially replaces the system/ping (above), returns a simple status response about the state of Artifactory using the new Kubernetes style readiness probe (the system/ping will remain in place for legacy systems still depending on it). The probe can be used to measure the system latency, provides customers with an important metric to monitor according to their standard.

**Since:** 7.31.x

**Security:** Requires a valid user (can be anonymous).

**Usage:** GET /api/v1/system/readiness

**Produces:** application/json

**Sample Output:**

```
{  
    "code": "OK"  
}
```

**Response status codes:**

**200** - Successful request with an 'OK' text if Artifactory is working properly, if not will return an HTTP error code with a reason

#### 4.2.4 | Liveness Probe

**Description:** Get a status response to know when a container is ready to start accepting traffic.

**Since:** 7.31.x

**Security:** Requires a valid user (can be anonymous).

**Usage:** GET /api/v1/system/liveness

**Produces:** application/json

**Sample Output:**

```
{  
    "code": "OK"  
}
```

**Response status codes:**

200 - Successful request with an 'OK' text if working properly; if not will return an HTTP error code with a reason

#### 4.2.5 | Verify Connection

**Description:** Verifies a two-way connection between Artifactory and another product

Returns Success (200) if Artifactory receives a similar success code (200) from the provided endpoint. See possible error codes below.

**Since:** 4.15.0

**Security:** Requires an admin user.

**Usage:** POST/api/system/verifyconnection

**Consumes:** application/json

## JFrog REST APIs Displayed in the header

```
POST /api/system/verifyconnection
{
  + "endpoint" : "<The URL that Artifactory should connect to>",
  - "username" : "<Username to be used for the connection test>",
  - "password" : "<Password to be used for the connection test>"
}
```

**Produces:** application/json

Upon success (200):

200 Successfully connected to endpoint

Upon error, returns 400 along with a JSON object that contains the error returned from the other system.

### Sample Output:

```
{
  "errors" : [ {
    "status" : 400,
    "message" : "Received error from endpoint url: HTTP 404: Page not found"
  } ]
}
```

## 4.2.6 | General Configuration

### Note

This API is available only in Self-hosted instances.

**Description:** Get the general configuration (`artifactory.config.xml`).

**Since:** 2.2.0

**Security:** Requires a valid admin user

**Usage:** GET /api/system/configuration

**Produces:** application/xml ([http://www.jfrog.org/xsd/artifactory-v1\\_7\\_3.xsd](http://www.jfrog.org/xsd/artifactory-v1_7_3.xsd))

### Note

To download the xsd file above, you will need to copy and paste [http://www.jfrog.org/xsd/artifactory-v1\\_7\\_3.xsd](http://www.jfrog.org/xsd/artifactory-v1_7_3.xsd) to a new tab in your browser.

To

### Sample Output:

```
GET /api/system/configuration
```

```
<artifactory.config.xml/>
```

## 4.2.7 | Save General Configuration

**Description:** Save the general configuration (`artifactory.config.xml`).

### Note

This API is available only in Self-hosted instances.

**Since:** 2.2.0

**Notes:** This is an advanced feature - make sure the new configuration is really what you wanted before saving.

**Security:** Requires a valid admin user

## JFrog REST APIs Displayed in the header

**Usage:** POST /api/system/configuration

**Consumes:** application/xml ([https://releases.jfrog.io/artifactory/static-release-virtual/xsd/artifactory/artifactory-v3\\_4\\_0.xsd](https://releases.jfrog.io/artifactory/static-release-virtual/xsd/artifactory/artifactory-v3_4_0.xsd))

### Note

To download the xsd file above, you will need to copy and paste [https://releases.jfrog.io/artifactory/static-release-virtual/xsd/artifactory/artifactory-v3\\_4\\_0.xsd](https://releases.jfrog.io/artifactory/static-release-virtual/xsd/artifactory/artifactory-v3_4_0.xsd) to a new tab in your browser.

### Sample Usage:

```
POST /api/system/configuration
<artifactory.config.xml/>
```

### 4.2.8 | Update Custom URL Base

**Description:** Changes the Custom URL base

**Since:** 3.9.0

**Security:** Requires a valid admin user

**Usage:** PUT /api/system/configuration/baseUrl

#### Example:

```
curl -X PUT "http://localhost:8081/artifactory/api/system/configuration/baseUrl" -d 'https://mycompany.com:444' -uadmin:password -H "Content-type: text/plain"
```

#### Sample Output:

```
URL base has been successfully updated to "https://mycompany.com:444".
```

### 4.2.9 | License Information

**Description:** Return information about the currently installed license.

**Since:** 3.3.0

**Security:** Requires a valid admin user

**Usage:** GET /api/system/license

**Produces:** application/json

#### Sample Output:

```
GET /api/system/license
{
  "type" : "Commercial",
  "validThrough" : "May 15, 2014",
  "licensedTo" : "JFrog inc."
}
```

### 4.2.10 | Install License

**Description:** Install new license key or change the current one.

**Since:** 3.3.0

**Security:** Requires a valid admin user

**Usage:** POST /api/system/licenses

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**Consumes:** application/json

```
POST /api/system/licenses
{
    "licenseKey": "<supplied license key>"           // Any newline characters must be represented by escape sequence (\n)
}
```

**Produces:** application/json

**Sample Output:**

```
POST /api/system/licenses
{
    "status" : 200,
    "message" : "The license has been successfully installed."
}
```

### 4.2.11 | HA License Information

**Description:** Return information about the currently installed licenses in an HA cluster.

**Since:** 5.0.0

**Security:** Requires a valid admin user

**Usage:** GET /api/system/licenses

**Produces:** application/json

```
[ {
    "type" : "Enterprise",
    "validThrough" : "<validity date formatted MMM DD, YYYY>",
    "licensedTo" : "<Company name>",
    "licenseHash" : "<license hash code>",
    "nodeId" : "<Node ID of the node activated with this license | Not in use>",
    "nodeUrl" : "<URL of the node activated with this license | Not in use>",
    "expired" : <true | false>
}]
```

**Sample Output:**

```
GET /api/system/licenses
```

```
[ {
    "type" : "Enterprise",
    "validThrough" : "May 15, 2018",
    "licensedTo" : "JFrog",
    "licenseHash" : "179b7ea384d0c4655a00dfac7285a21d986a17923",
    "nodeId" : "art1",
    "nodeUrl" : "http://10.1.16.83:8091/artifactory",
    "expired" : false
}, {
    "type" : "Enterprise",
    "validThrough" : "May 15, 2018",
    "licensedTo" : "JFrog",
    "licenseHash" : "e10b8aa1d1dc5107439ce43debc6e65dfab71af3",
    "nodeId" : "Not in use",
    "nodeUrl" : "Not in use",
    "expired" : false
} ]
```

### 4.2.12 | Install HA Cluster Licenses

**Description:** Install a new license key(s) on an HA cluster.

**Since:** 5.0.0

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**Security:** Requires an admin user

**Usage:** POST /api/system/licenses

**Consumes:** application/json

POST /api/system/licenses

```
[{  
    "licenseKey": "<supplied license key>"           // Any newline characters must be represented by escape sequence (\n)  
}]
```

**Produces:** application/json

```
{  
    "status" : 200,  
    "messages" : {  
        ["<License key>" : "<status message>"]  
    }  
}
```

**Sample Usage:**

```
POST /api/system/licenses  
[  
    {  
        {  
            "licenseKey": "tL9r2Y...lDBiktbbt"  
        },  
        {  
            "licenseKey": DiYgVA...P7nvyNI7q"  
        }  
]
```

**Response:**

```
{  
    "status" : 200,  
    "messages" : {  
        "tL9r2Y...lDBiktbbt" : "OK",  
        "DiYgVA...P7nvyNI7q" : "OK",  
    }  
}
```

## 4.2.13 | Delete HA Cluster License

**Description:** Deletes a license key from an HA cluster.

**Since:** 5.0.0

**Security:** Requires an admin user

**Usage:** DELETE /api/system/licenses?licenseHash=licenseHash1, licenseHash2...

**Produces:** application/json

```
{  
    "status" : 200,  
    "messages" : {[<License hash code> : <status message>]}  
}
```

**Sample Usage:**

```
DELETE /api/system/licenses?licenseHash=tL9r2YlDBiktbbt, DiYgVAP7nvyNI7q
```

**Response:**

```
{  
    "status" : 200,  
    "messages" : {  
        "tL9r2YlDBiktbbt" : "OK",  
        "DiYgVAP7nvyNI7q" : "OK"  
    }  
}
```

#### 4.2.14 | Version and Add-ons information

**Description:** Return information about the current Artifactory version, revision, and currently installed Add-ons

**Since:** 2.2.2

**Security:** Requires a valid user (can be anonymous)

**Usage:** GET /api/system/version

**Produces:** application/json (application/vnd.org.jfrog.artifactory.system.Version+json)

**Sample Output:**

```
GET /api/system/version
{
  "version" : "2.2.2",
  "revision" : "10427",
  "addons" : [ "build", "ldap", "properties", "rest", "search", "sso", "watch", "webstart" ]
}
```

#### 4.2.15 | Get Reverse Proxy Configuration

**Description:** Returns the reverse proxy configuration.

**Note**

This API is available only in Self-hosted instances.

**Since:** 4.3.1

**Note:** Applicable to a Self-Hosted JFrog Platform only

**Security:** Requires a valid admin user and supported for users with the relevant permissions.

Non-admin users will get the proxy method and ports and the list of repositories based on their user permissions.

**Usage:** GET /api/system/configuration/webServer

**Produces:** application/json

**Sample Output:**

```
GET /api/system/configuration/webServer

{
  "key" : "nginx",
  "webServerType" : "NGINX",
  "artifactoryAppContext" : "artifactory",
  "publicAppContext" : "artifactory",
  "serverName" : "jfrog.com",
  "serverNameExpression" : "*.jfrog.com",
  "artifactoryServerName" : "localhost",
  "artifactoryPort" : 8081,
  "sslCertificate" : "/etc/ssl/myKey.cert",
  "sslKey" : "/etc/ssl/myKey.key",
  "dockerReverseProxyMethod" : "SUBDOMAIN",
  "useHttps" : true,
  "useHttp" : true,
  "sslPort" : 443,
  "httpPort" : 76
}
```

##### 4.2.15.1 | Possible Values for dockerReverseProxyMethod

The table below maps the possible values for the dockerReverseProxyMethod from the JFrog Platform UI to the Reverse Proxy API:

UI Value	API Value
Subdomain	SUBDOMAIN
Repository Path	REPOPATHPREFIX
Port	PORTPERREPO

#### 4.2.16 | Update Reverse Proxy Configuration

**Description:** Updates the reverse proxy configuration.

##### Note

This API is available only in Self-hosted instances.

**Since:** 4.3.1

**Security:** Requires an admin user

**Usage:** POST /api/system/configuration/webServer

**Consumes:** application/json

##### Sample Usage:

```
POST /api/system/configuration/webServer
{
  "key" : "nginx",
  "webServerType" : "NGINX",
  "artifactoryAppContext" : "artifactory",
  "publicAppContext" : "artifactory",
  "serverName" : "jfrog.com",
  "serverNameExpression" : "*.jfrog.com",
  "artifactoryServerName" : "localhost",
  "artifactoryPort" : 8081,
  "sslCertificate" : "/etc/ssl/myKey.cert",
  "sslKey" : "/etc/ssl/myKey.key",
  "dockerReverseProxyMethod" : "SUBDOMAIN",
  "useHttps" : true,
  "useHttp" : true,
  "sslPort" : 443,
  "httpPort" : 76
}
```

#### 4.2.17 | Get Reverse Proxy Snippet

**Description:** Returns the reverse proxy configuration snippet in text format

**Since:** 4.3.1

**Security:** Requires a valid admin user

**Usage:** GET /api/system/configuration/reverseProxy/nginx

**Produces:** text/plain

##### Sample Usage:

## JFrog REST APIs Displayed in the header

```
GET /api/system/configuration/reverseProxy/nginx

## add ssl entries when https has been set in config
ssl_certificate      /etc/ssl/myKey.cert;
ssl_certificate_key  /etc/ssl/myKey.key;
ssl_session_cache    shared:SSL:1m;
ssl_prefer_server_ciphers  on;
## server configuration
server {
    listen 443 ssl;
    listen 76 ;
    server_name ~(?<repo>.+)\.jfrog.com jfrog.com;

    if ($http_x_forwarded_proto = '') {
        set $http_x_forwarded_proto $scheme;
    }
    ## Application specific logs
    ## access_log /var/log/nginx/jfrog.com-access.log timing;
    ## error_log /var/log/nginx/jfrog.com-error.log;
    rewrite ^/$ /artifactory/webapp/ redirect;
    rewrite ^/artifactory$ /artifactory/webapp/ redirect;
}
```

### 4.2.18 | Start SHA256 Migration Task

**Description:** Starts the SHA-256 migration process.

**Note:** Migration can also be configured using a set of properties in Artifactory's artifactory.system.properties file.

**Security:** Administrator permissions

**Usage:** POST api/system/migration/sha2/start

**Since:** 6.6.0

**Consumes:** application/json

```
{
    - "batchThreshold":10 (default),
    - "queryLimit":100 (default),
    - "waitForClusterSleepIntervalMillis":5000 (default),
    + "sleepIntervalMillis":5000 (default),
    - "forceRunOnNodeId":""
```

**Produces:** text/plain

**Sample Output:**

```
Sha256 migration scheduled to start successfully
```

### 4.2.19 | Stop SHA256 Migration Task

**Description:** Stops the SHA-256 migration process

**Security:** Administrator permissions

**Note:** The *sleepIntervalMillis* should match what was defined in the *Start SHA256 Migration Task*

**Usage:** POST api/system/migration/sha2/stop?{sleepIntervalMillis=5000}

**Produces:** text/plain

**Since:** 6.6.0

**Sample Output:**

## JFrog REST APIs Displayed in the header

Sha256 migration scheduled to stop successfully.

### 4.2.20 | Create Bootstrap Bundle (Deprecated)

**Description:** This rest is relevant for High Availability setup. It will create a bootstrap bundle on the primary node of an Artifactory HA installation that will include all the relevant keys so a new node can access the database and fetch all the relevant configuration files. The same bundle must be installed on all nodes during an installation of new nodes or if upgrading from a version older than 5.0.

**Note:** Deprecated from version 5.7

**Since:** 5.0.0

**Until:** 5.6.x

**Security:** Requires an admin user

**Usage:** POST /api/system/bootstrap\_bundle

**Produces:** application/json

```
{  
  "file" : "<Location on primary node where bootstrap bundle was created>"  
}
```

**Sample usage:**

POST /api/system/bootstrap\_bundle

```
{  
  "file" : "/opt/jfrog/artifactory/etc/bootstrap.bundle.tar.gz"  
}
```

### 4.2.21 | Re-index paths on Metadata Server

**Description:** If needed, Artifactory can re-send Metadata events to the Metadata Server in case of an inconsistent state. The API will recursively re-index artifacts under the given repository or path if a repository key or a directory path is specified. Asynchronous by default. Does not delete data associated with the given paths on the Metadata Server before re-indexing by default.

**Since:** 7.0.0

**Security:** Requires an admin user

**Usage:** POST /api/metadata\_server/reindex?[async=true/false&delete\_first=true/false]

**Consumes:** application/json

```
{  
  "paths": ["libs-release-local", "libs-snapshot-local"]  
}
```

**Produces:** text/plain

**Sample usage:**

POST /api/metadata\_server/reindex

### 4.2.22 | Apply Artifactory YAML Configuration Changes

**Description:** Configure an existing Artifactory instance using a simple YAML configuration file. Make single or multiple configuration changes as needed, to create, update, and delete any elements in Artifactory. For more information, see Artifactory YAML Configuration

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## Take care when modifying Artifactory configurations

Modifying the Artifactory configurations is an advanced feature, and if done incorrectly may render Artifactory in an undefined and unusable state. Since it is easy to overwrite configurations, such as a repository's package type, we strongly recommend backing up the configuration before making any direct changes, and taking great care when doing so.

**Since:** 5.8.0

**Security:** Requires an admin user

**Usage:** PATCH /api/system/configuration -H "Content-Type: application/yaml" -T configuration.yaml

**Consumes:** application/json

**Produces:** text/plain

## 4.3 | ROUTER

### Base URL

```
<node IP>:<Router Port>/router/api/v1
#For example:
http://10.1.2.3:8082/router/api/v1
```

#### 4.3.1 | Health Check

**Description:** Get a simple status response about the state of a JFrog Product node.

Returns health state and general information regarding the router and locally registered services.

**Since:** Artifactory 7.0.0, Xray 3.0.0, Mission Control 4.0.0, Distribution 2.0.0, Pipelines 1.0.0

**Security:** No authentication required

**Usage:** GET /router/api/v1/system/health

**Produces:** application/json

#### Sample Output:

```
GET /router/api/v1/system/health
```

Healthy Response:  
200 OK  
Content-Type: application/json

```
{
  "router": {
    "node_id": "12345-defg-6789",
    "state": "HEALTHY",
    "message": "OK"
  },
  "services": [
    {
      "service_id": "jfsvc@123",
      "node_id": "12345-defg-6789",
      "state": "HEALTHY",
      "message": "OK"
    },
    ...
  ]
}
```

Unhealthy Response:  
503 SERVICE UNAVAILABLE  
Content-Type: application/json

```
{
  "router": {
```

```
"node_id": "12345-defg-6789",
"state": "HEALTHY",
"message": "OK"
},
"services": [
{
  "service_id": "jfrt@1234",
  "node_id": "12345-defg-6789",
  "state": "UNHEALTHY_PEER",
  "message": "Service is healthy; there is at least one unhealthy service"
},{{
  "service_id": "jffe@9876",
  "node_id": "12345-defg-6789",
  "state": "UNHEALTHY",
  "message": "Get http://localhost:3000/health: dial tcp 127.0.0.1:3000: connect: connection refused"
}},
...
]
}
```

## 4.4 | Users

The Users APIs are part of the Security APIs.

The Security APIs, available from Artifactory release 7.49.3, replace the previous Security APIs, which are planned to be deprecated at a later stage. The new APIs address all aspects of JFrog Platform security and access.

### New Security APIs

JFrog is currently exposing the new Security REST APIs that are already available; these APIs are being modified and in the coming periods will be added to and will replace the previous APIs, but will remain backward-compatible.

#### 4.4.1 | Get User Details

**Description:** Returns the user's details based on the username.

**Since:** 7.49.3

**Authorization:** Requires admin authentication using Access Tokens

**Usage:** GET /access/api/v2/users/{username}

**Produces:** application/json

**Sample Response:**

```
{
  "username": "admin",
  "email": "admin@gmail.com",
  "admin": true,
  "effective_admin": true,
  "profile_updatable": true,
  "disable_ui_access": false,
  "internal_password_disabled": false,
  "last_logged_in": "2024-04-26T10:58:18.351+02:00",
  "realm": "internal",
  "groups": [ ],
  "status": "enabled"
}
```

### Note

From Artifactory release 7.66, the API response contains the `effective_admin` field to indicate if the user is an administrator, based on the user's associated groups.

**Response Codes:**

- **201:** Successful
- **400:** Invalid input, object invalid
- **401:** Invalid credentials
- **403:** Insufficient permissions
- **404:** Username not found

#### 4.4.2 | Get User List

**Description:** Returns the list of users.

**Since:** 7.49.3

**Authorization:** Requires authentication using [Access Tokens](#), either as admin or using a scoped token with the `system:identities:r` scope.

**Usage:** GET /access/api/v2/users

**Produces:** application/json; charset=UTF-8

**Response:**

```
{  
  "users": [  
    {  
      "username": "string",  
      "uri": string,  
      "realm": string,  
      "status": "string"  
    }  
  ]  
  "cursor": "string"  
}
```

#### Note

The `limit` parameter allows you to control the number of results. The valid values is a minimum of 1, and the default value is 1,000. For example, to set the limit to 5000, use the following API: `/access/api/v2/users?limit=5000`

**Response Codes:**

- **201:** Successful
- **400:** Invalid input, object invalid
- **401:** Invalid credentials
- **403:** Insufficient permissions

#### 4.4.2.1 | query strings

You can use the following optional query strings in the Get User List API.

String	Description
status	An enum string with the possible values: invited, enabled, disabled, locked
limit	A number, minimum 1. The default value is 1000.

String	Description
username	A string that contains the username.
onlyAdmins	Boolean to indicate whether the user is an admin.
cursor	A string. Divides the list of results and shows those that fall after the cursor for pagination purposes.

#### 4.4.3 | Create User

**Description:** Creates a new Access user.

**Since:** 7.49.3

**Authorization:** Requires admin authentication using [Access Tokens](#)

**Usage:** POST /access/api/v2/users

**Content-Type:** application/json

**Produces:** application/json

**Request:**

```
{
  "username": "logenn",
  "password": "string",
  "email": "string",
  "groups": [
    "string"
  ],
  "admin": false,
  "profile_updatable": true,
  "internal_password_disabled": false,
  "disable_ui_access": false
}
```

**Note**

When 'internal\_password\_disabled=true', the 'password' field is not mandatory.

The parameter *realm* will be internal.

**Response:**

```
{
  "username": "string",
  "email": "string",
  "groups": [
    "string"
  ],
  "realm": "string",
  "status": "enabled",
  "admin": true,
  "profile_updatable": true,
  "internal_password_disabled": true,
  "disable_ui_access": true
}
```

## Note

From Artifactory release 7.66, the API response contains the `effective_admin` field to indicate if the user is an administrator, based on the user's associated groups.

## Response Codes:

- **201**: Successful
- **400**: Invalid input, object invalid
- **401**: Invalid credentials
- **403**: Insufficient permissions
- **409**: User already exists

### 4.4.4 | Update a User (Partial Update)

**Description:** Updates an existing Access user.

**Since:** 7.49.3

**Authorization:** Requires admin authentication using [Access Tokens](#)

**Usage:** PATCH /access/api/v2/users/{username}

**Produces:** application/json

## Request:

```
{  
  "email": "string",  
  "password": "string",  
  "admin": true,  
  "profile_updatable": true,  
  "internal_password_disabled": true,  
  "disable_ui_access": true  
}
```

## Note

- All fields are optional; if a specific field is not specified the value will not change.
- When `internal_password_disabled=false` and this field was true before, the 'password' field is mandatory.

## Response:

```
{  
  "username": "string",  
  "email": "string",  
  "groups": [  
    "string"  
  ],  
  "realm": "string",  
  "status": "enabled",  
  "admin": true,  
  "profile_updatable": true,  
  "internal_password_disabled": true,  
  "disable_ui_access": true  
}
```

## Note

From Artifactory release 7.66, the API response contains the `effective_admin` field to indicate if the user is an administrator, based on the user's associated groups.

#### 4.4.5 | Delete User

**Description:** Delete an existing user based on the username.

**Since:** 7.49.3

**Authorization:** Requires admin authentication using [Access Tokens](#)

**Usage:** DELETE /access/api/v2/users/{username}

**Response Codes:**

- **204:** Successful
- **400:** Invalid input, object invalid
- **401:** Invalid credentials
- **403:** Insufficient permissions
- **404:** Username not found

#### 4.4.6 | Add or Remove User from Groups

**Description:** Add or remove groups from a user.

**Since:** 7.49.3

**Authorization:** Requires admin authentication using [Access Tokens](#)

**Usage:** PATCH /access/api/v2/users/{username}/groups

**Content-Type:** application/json

**Produces:** application/json

**Request:**

```
{  
  "add": [  
    "string"  
  ],  
  "remove": [  
    "string"  
  ]  
}
```

**Response:**

```
{  
  "groups": [  
    "string"  
  ]  
}
```

**Response Codes:**

Returns a 400 code in the following cases:

- If both add and remove are not provided
- If the same value appears in both add and remove lists
- If one of the lists contains a non-existent group

#### 4.4.7 | Change a User Password

**Description:** Change a user password.

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**Since:** 7.49.3

**Authorization:** Requires admin permissions or user is the same as {username}, requires authentication using [Access Tokens](#)

**Usage:** PUT /access/api/v2/users/{username}/password

**Content-Type:** application/json

**Request:**

```
{  
    "password": "string"  
}
```

**ResponseCodes:**

- **204:** Successful
- **400:** Failed - Any failed update should result in 400 with a message; also 'if user set with internal\_password\_disabled=true'

### 4.4.8 | Set User Password as Expired

**Description:** Set a user password as expired.

**Since:** 7.49.3

**Authorization:** Requires admin authentication using [Access Tokens](#)

**Usage:** POST /access/api/v2/users/{username}/password/expire

**Request:** Blank

**Response Code:**

**204** (Successful)

### 4.4.9 | Unlock User

**Description:** Unlocks a locked user.

**Since:** 7.49.3

**Authorization:** Requires admin authentication using [Access Tokens](#)

**Usage:** POST /access/api/v2/users/{username}/unlock

**Request:** Blank

**Response Code:**

**204:** Successful

## 4.5 | Groups

The Groups APIs are part of the Security APIs.

The Security APIs, available from Artifactory release 7.49.3, replace the previous [Security APIs](#), which are planned to be deprecated at a later stage. The new APIs address all aspects of JFrog Platform security and access.

### New Security APIs

JFrog is currently exposing the new Security REST APIs that are already available; these APIs are being modified and in the coming periods will be added to and will replace the previous APIs, but will remain backward-compatible.

#### 4.5.1 | Get Group Details

**Description:** Returns the groups' details based on the group name.

**Since:** 7.49.3

**Authorization:** Requires admin authentication using [Access Tokens](#)

**Usage:** GET /access/api/v2/groups/{name}

**Produces:** application/json

**Response:**

```
{  
    "name": "string",  
    "description": "string",  
    "auto_join": false,  
    "admin_privileges": false,  
    "realm": "ldap",  
    "realm_attributes": "string",  
    "external_id": "string",  
    "members": ["user1", "user2"]  
}
```

**Response Codes:**

- **201:** Successful
- **400:** Invalid input, object invalid
- **401:** Invalid credentials
- **403:** Insufficient permissions
- **404:** Group not found

#### 4.5.2 | Get a List of Groups

**Description:** Returns the list of all groups.

**Since:** 7.49.3

**Authorization:** Requires authentication using [Access Tokens](#), either as admin or using a scoped token with the `system:identities:r` scope.

**Usage:** GET /access/api/v2/groups

**Produces:** application/json

**Response:**

```
{  
    "cursor": "string",  
    "groups": [  
        {  
            "group_name": "string",  
            "uri": "string"  
        }  
    ]  
}
```

**Note**

The limit limits the result set; the valid values are between 1 to 99999 (the default is 1000).

**Response Codes:**

- **201:** Successful
- **400:** Invalid input, object invalid
- **401:** Invalid credentials
- **403:** Insufficient permissions

#### 4.5.3 | Create a Group

**Description:** Creates a new group.

**Since:** 7.49.3

**Authorization:** Requires admin authentication using [Access Tokens](#)

**Usage:** POST /access/api/v2/groups

**Produces:** application/json

**Request:**

```
{  
    "name": "string",  
    "description": "string",  
    "auto_join": boolean,  
    "admin_privileges": boolean,  
    "external_id": "string",  
    "members": ["string", "string"]  
}
```

**Response:**

```
{  
    "name": "string",  
    "description": "string",  
    "auto_join": false,  
    "admin_privileges": false,  
    "realm": "ldap",  
    "realm_attributes": "string",  
    "external_id": "string",  
    "members": ["user1", "user2"]  
}
```

**Response Codes:**

- **201:** Successful
- **400:** Invalid input, object invalid
- **401:** Invalid credentials
- **403:** Insufficient permissions
- **409:** Group already exists

#### 4.5.4 | Group Update

**Description:** Updates an Access group's external ID, realm, or realm attributes. To add or remove users, use instead the Add or Remove User from Groups REST API.

**Since:** 7.49.3

**Authorization:** Requires admin authentication using [Access Tokens](#)

**Usage:** PATCH /access/api/v2/groups/{name}

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**Produces:** application/json

### Note

All fields are optional; if a field is not specified the value will not change (if the request payload is empty, returns 200)

### Request:

```
{  
  "description": "string",  
  "auto_join": boolean,  
  "admin_privileges": boolean,  
  "external_id": "string"  
}
```

### Response:

```
{  
  "name": "string",  
  "description": "string",  
  "auto_join": false,  
  "admin_privileges": false,  
  "realm": "ldap",  
  "realm_attributes": "string",  
  "external_id": "string",  
  "members": ["user1", "user2"]  
}
```

### Response Codes:

- **201:** Successful
- **400:** Invalid input, object invalid
- **401:** Invalid credentials
- **403:** Insufficient permissions
- **404:** Name not found

## 4.5.5 | Delete a Group

**Description:** Deletes an existing group based on the group name.

**Since:** 7.49.3

**Authorization:** Requires admin authentication using [Access Tokens](#)

**Usage:** DELETE /access/api/v2/groups/{name}

**Request:** Blank

### Response Codes:

- **204:** Successful
- **400:** Invalid input, object invalid
- **401:** Invalid credentials
- **403:** Insufficient permissions
- **404:** Group not found

## 4.5.6 | Add or Remove a Group Member

**Description:** Manage group members by adding and removing group members.

**Since:** 7.49.3

**Authorization:** Requires admin authentication using [Access Tokens](#).

**Usage:** PATCH /access/api/v2/groups/{name}/members

**Content-Type:** application/json

**Produces:** application/json

**Request:**

```
{  
  "add" : ["user1", "user2"],  
  "remove" : ["user1", "user2"]  
}
```

**Response:**

```
{  
  "members": ["user1", "user2"]  
}
```

**Response Codes:**

Returns a 400 code in the following cases:

- If both add list and remove list are not provided
- If the same value appears in both add list and remove list
- If one of the lists contains a non-existent group

## 4.6 | Permissions

The Access Permissions APIs are applicable for the next-generation permissions model and fully backward compatible with the legacy permissions model. You can continue to use the previous APIs for your workflows.

**Permissions Base URL**

The Access Permissions APIs have the following base URL.

```
<JFrog Base URL>/access/api/v2/permissions  
#For example:  
http://ARTIFACTORY_SERVER_HOSTNAME:8082/access/api/v2/permissions
```

### 4.6.1 | Create Permission

**Description:** Creates a new permission target in the system.

**Security:** Requires admin authentication using [Access Tokens](#)

**Since:** Artifactory 7.72.0

**Usage:** POST <JFrog Base URL>/access/api/v2/permissions

**Sample Request JSON**

```
{  
  "name": "Perm",  
  "resources": {  
    "artifact": {  
      "actions": {  
        "users": {  
          "test-user": [  
            "READ"  
          ]  
        },  
        "groups": {  
          "test-group": [  
            "READ"  
          ]  
        }  
      }  
    }  
  }  
}
```

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```
        }
    },
    "targets": {
        "example-repo-local": {
            "include_patterns": [
                "**",
                "rep"
            ],
            "exclude_patterns": [
                "
            ],
        },
        "ANY LOCAL": {
            "include_patterns": [
                "**",
                "rep"
            ],
            "exclude_patterns": [
                "
            ]
        }
    }
},
"release_bundle": {
    "actions": {
        "users": {
            "test-user": [
                "ANNOTATE"
            ],
            "groups": {
                "
            }
        },
        "targets": {
            "release-bundles-v2": {
                "include_patterns": [
                    "**"
                ],
                "exclude_patterns": [
                    "
                ],
            },
            "release-bundles": {
                "include_patterns": [
                    "**"
                ],
                "exclude_patterns": [
                    "
                ]
            }
        }
    }
},
"build": {
    "actions": {
        "users": {
            "test-user": [
                "READ"
            ],
            "groups": {
                "
            }
        },
        "targets": {
            "artifactory-build-info": {
                "include_patterns": [
                    "**",
                    "beta"
                ]
            }
        }
    }
}
```

```
        ],
        "exclude_patterns": [
            ]
        }
    }
}
}
```

#### 4.6.2 | Get Permissions

**Description:** Get the list of all permissions in the system.

**Authorization:** Requires authentication using [Access Tokens](#), either as admin or using a scoped token with the `system:permissions:r` scope.

**Since:** Artifactory 7.72.0

**Usage:** GET <JFrog Base URL>/access/api/v2/permissions

You can also use `cursor` and `limit` attributes to refine the results. You can enter a permission name in the `cursor` attribute to list the permissions that start from that permission. You can enter an integer in `limit` to define the number of results.

You can use `cursor` and `limit` independently or together: GET <JFrog Base URL>/access/api/v2/permissions?  
`cursor<string>&limit<integer>`

#### Sample Response JSON

```
curl --location 'http://example.jfrog.io/access/api/v2/permissions' \
--header 'Accept: application/json' \
--header 'Authorization: Bearer cmVNE'

{
  "permissions": [ {
    "name" : "Perm2",
    "uri" : "/access/api/v2/permissions/Perm2"
  }, {
    "name" : "Any Remote",
    "uri" : "/access/api/v2/permissions/Any%20Remote"
  }, {
    "name" : "Anything",
    "uri" : "/access/api/v2/permissions/Anything"
  }, {
    "name" : "Perm",
    "uri" : "/access/api/v2/permissions/Perm"
  }],
  "cursor" : "Perm2"
}

curl --location 'http://example.jfrog.io/access/api/v2/permissions?limit=2' \
--header 'Accept: application/json' \
--header 'Authorization: Bearer cmVNE'

{
  "permissions": [ {
    "name" : "Any Remote",
    "uri" : "/access/api/v2/permissions/Any%20Remote"
  }, {
    "name" : "Anything",
    "uri" : "/access/api/v2/permissions/Anything"
  }],
  "cursor" : "Anything"
}

curl --location 'http://localhost:8082/access/api/v2/permissions?cursor=Perm' \
--header 'Accept: application/json' \
--header 'Authorization: Bearer cmVNE'
```

```
{  
  "permissions" : [ {  
    "name" : "Perm2",  
    "uri" : "/access/api/v2/permissions/Perm2"  
  } ],  
  "cursor" : "Perm2"  
}
```

#### 4.6.3 | Get Permission Details by Permission Name

**Description:** Get the details of a permission by permission name.

**Security:** Requires admin authentication using [Access Tokens](#)

**Since:** Artifactory 7.72.0

**Usage:** GET <JFrog Base URL>/access/api/v2/permissions/{permission name}

##### Sample Response JSON

```
curl --location 'http://example.jfrog.io/access/api/v2/permissions/Perm2' \  
--header 'Accept: application/json' \  
--header 'Authorization: Bearer cmVmzNE'
```

```
{  
  "name" : "Perm2",  
  "resources" : {  
    "artifact" : {  
      "actions" : {  
        "users" : { },  
        "groups" : { }  
      },  
      "targets" : {  
        "example-repo-local" : {  
          "include_patterns" : [ "**", "rep" ],  
          "exclude_patterns" : [ ]  
        },  
        "ANY LOCAL" : {  
          "include_patterns" : [ "**", "rep" ],  
          "exclude_patterns" : [ ]  
        },  
        "ANY REMOTE" : {  
          "include_patterns" : [ "**", "rep" ],  
          "exclude_patterns" : [ ]  
        },  
        "ANY DISTRIBUTION" : {  
          "include_patterns" : [ "**", "rep" ],  
          "exclude_patterns" : [ ]  
        }  
      }  
    },  
    "release_bundle" : {  
      "actions" : {  
        "users" : { },  
        "groups" : { }  
      },  
      "targets" : {  
        "release-bundles-v2" : {  
          "include_patterns" : [ "**" ],  
          "exclude_patterns" : [ ]  
        },  
        "release-bundles" : {  
          "include_patterns" : [ "**" ],  
          "exclude_patterns" : [ ]  
        }  
      }  
    },  
    "build" : {
```

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```
"actions" : {  
    "users" : { },  
    "groups" : { }  
},  
"targets" : {  
    "artifactory-build-info" : {  
        "include_patterns" : [ "**", "beta" ],  
        "exclude_patterns" : [ ]  

```

### 4.6.4 | Delete Permission

**Description:** Delete a permission from the system.

**Security:** Requires admin authentication using Access Tokens

**Since:** Artifactory 7.72.0

**Usage:** DELETE <JFrog Base URL>/access/api/v2/permissions/{permission name}

#### Sample Response

```
curl --location --request DELETE 'http://example.jfrog.io/access/api/v2/permissions/0ldv1' \  
--header 'Accept: application/json' \  
--header 'Authorization: Bearer cmVzNE'
```

Ok

### 4.6.5 | Get Permission Resource Based on Permission Name and Resource Type

**Description:** Get the details of a permission resource by permission name and resource type.

**Security:** Requires admin authentication using Access Tokens

**Since:** Artifactory 7.72.0

**Usage:** GET <JFrog Base URL>/access/api/v2/permissions/{permission name}/{resource type}

#### Sample Response JSON

```
curl --location 'http://example.jfrog.io/access/api/v2/permissions/Perm/build' \  
--header 'Accept: application/json' \  
--header 'Authorization: Bearer cmVmNE'  
  
{  
    "actions" : {  
        "users" : { },  
        "groups" : { }  
    },  
    "targets" : {  
        "artifactory-build-info" : {  
            "include_patterns" : [ "**", "beta" ],  
            "exclude_patterns" : [ ]  

```

### 4.6.6 | Delete Permission Resource Based on Permission Name and Resource Type

## JFrog REST APIs Displayed in the header

**Description:** Delete a permission resource from a permission by permission name and resource type.

**Security:** Requires admin authentication using [Access Tokens](#)

**Since:** Artifactory 7.72.0

**Usage:** DELETE <JFrog Base URL>/access/api/v2/permissions/{permission name}/{resource type}

### Sample Request

```
curl --location --request DELETE 'http://example.jfrog.io/access/api/v2/permissions/OldPerm/build' \
--header 'Accept: application/json' \
--header 'Authorization: Bearer cmVmNE'
```

Ok

## 4.6.7 | Replace Permission Resource Based on Permission Name and Resource Type

**Description:** Replace a permission resource in a permission by permission name and resource type.

**Security:** Requires admin authentication using [Access Tokens](#)

**Since:** Artifactory 7.72.0

**Usage:** PUT <JFrog Base URL>/access/api/v2/permissions/{permission name}/{resource type}

### Sample Request

```
curl --location --request PUT 'http://example.jfrog.io/access/api/v2/permissions/Perm/build' \
--header 'Content-Type: application/json' \
--header 'Accept: application/json' \
--header 'Authorization: Bearer <YOUR_TOKEN>' \
--data '{
  "actions": {
    "users": {},
    "groups": {}
  },
  "targets": {
    "artifactory-build-info": {
      "include_patterns": [ "**", "alpha" ],
      "exclude_patterns": []
    }
  }
}'
```

## 4.6.8 | Update Permission Resource Based on Permission Name and Resource Type

**Description:** Update a permission resource in a permission by permission name and resource type.

**Security:** Requires admin authentication using [Access Tokens](#)

**Since:** Artifactory 7.72.0

**Usage:** PATCH <JFrog Base URL>/access/api/v2/permissions/{permission name}/{resource type}

### Sample Request

```
curl --location --request PATCH 'http://example.jfrog.io/access/api/v2/permissions/Perm/build' \
--header 'Content-Type: application/json' \
--header 'Accept: application/json' \
--header 'Authorization: Bearer cmVmNE' \
--data '{
  "actions" : {
    "users" : { },
    "groups" : { }
  },
  "targets" : { }
```

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```
"artifactory-build-info" : {  
    "include_patterns" : [ "**", "alpha" ],  
    "exclude_patterns" : [ ]  
}  
}  
}'
```

## 4.7 | ACCESS

The usage of the different methods in the Access API are as follows:

- PUT: Designed as an override and replaces the existing entity. It creates a new entity if none exists.
- POST: Creates a new entity.
- PATCH: Modifies an existing entity.

### Base URL

For V1 APIs  
<JFrog Base URL>/access/api/v1  
For example:  
[http://ARTIFACTORY\\_SERVER\\_HOSTNAME:8082/access/api/v1](http://ARTIFACTORY_SERVER_HOSTNAME:8082/access/api/v1)

For V2 APIs  
<JFrog Base URL>/access/api/v2  
For example:  
[http://ARTIFACTORY\\_SERVER\\_HOSTNAME:8082/access/api/v2](http://ARTIFACTORY_SERVER_HOSTNAME:8082/access/api/v2)

### 4.7.1 | ACCESS TOKENS

With the release of 7.21.1, the JFrog Platform introduced a new set of token APIs, available through the '/access' context.

The new Access Token endpoints can be used to create tokens for any of the services in your JFrog Platform and to manage user access to these services.

#### Note

If left at the default setting, the token will be created with the user-identity scope, which allows users to identify themselves in the Platform but does not grant any specific access permissions.

#### 4.7.1.1 | Recommended Configurations

The following configurations in the 'access.config.yml' will apply the configuration changes required for the API.

#### Note

- If expiry is forced but expires\_in was not provided in the request, the **default** expiry shall be set.
- An admin can restrict user identity tokens refresh-ability (i.e., disallow creating as refreshable)

#### default-expiry

- The default expiry period in seconds, this is the token expiry when the expiry is set to null.
- When set to zero, default expiry is not forced.
- Must be non-negative.
- Must comply with ('max-expiry' >= 'default-expiry').
- Default value: 1 year

#### max-expiry

## JFrog REST APIs Displayed in the header

- The max possible expiry of non-admin tokens.
- When the value is bigger than zero - non-expirable tokens are forbidden and the user's token expiry will be limited to the max expiry value.
- When the value is zero - the user's token can be non-expirable and the token's expiry will not be limited with a higher boundary.
- Must be non-negative.
- Must comply with ('max-expiry' >= 'default-expiry').
- Default value: 0

### allow-refreshable

- When disabled, all the user tokens will be created as non refreshable.
- Default: true

### 'access.config.yml' Example:

```
token:  
  default-expiry: 31536000  
  max-expiry: 0  
  allow-refreshable: true
```

#### 4.7.1.2 | Create Token

**Description:** Creates an access token for the JFrog Platform. Only internal Artifactory users can generate a token using basic credentials via REST API.

**Since:** 7.21.1

**Security:** Requires a valid token or user credentials. You cannot create token by using basic credentials if you enabled multi-factor authentication.

You can create tokens at the project level, if you are a project admin. For more information, see Access Token Creation by Project Admins.

You can create tokens through the JFrog Platform UI. For more information, see Access Tokens.

If you use basic credentials, you must enable creation of tokens in the JFrog Platform UI. For more information, see Enable Token Generation via API. You cannot create a token through a REST API if you have enabled multi-factor authentication in the system and the basic-authentication-enforce-mfa flag in the access.config file is set to true.

**Usage:** POST /access/api/v1/tokens

**Content-Type:** application/x-www-form-urlencoded or application/json (both are supported)

**Produces:** application/json

This endpoint takes the following parameters:

Parameter	Description
grant_type	[Optional, default: "client_credentials"]  The grant type used to authenticate the request. In this case, the only value supported is "client_credentials" which is also the default value if this parameter is not specified.
username	[Optional, default: "subject" from authentication token]  The user name for which this token is created. The username is based on the authenticated user - either from the user of the authenticated token or based on the username (if basic auth was used). The username is then used to set the subject of the token: <service-id>/users/<username>

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Parameter	Description
	Limited to 255 characters.
scope	<p>[Optional, default: applied-permissions/user]</p> <p>The scope of access that the token provides. For more information and configuration options, see <a href="#">Create a Scoped Token</a>.</p>
expires_in	<p>[Optional, default: 1 year]</p> <p>The amount of time, in seconds, it would take for the token to expire.</p> <p>An admin shall be able to set whether expiry is mandatory, what is the default expiry, and what is the maximum expiry allowed.</p> <p>Must be non-negative.</p>
refreshable	<p>[Optional, default: false]</p> <p>The token is not refreshable by default.</p>
description	<p>[Optional, default: empty]</p> <p>Free text token description. Useful for filtering and managing tokens.</p> <p>Limited to 1024 characters.</p>
audience	<p>[Optional, default: *@*]</p> <p>A space-separated list of the other instances or services that should accept this token identified by their Service-IDs.</p> <p>Limited to 255 characters.</p>
include_reference_token	<p>[Optional, default: false]</p> <p>Generate a Reference Token (alias to Access Token) in addition to the full token (available from Artifactory 7.38.10).</p> <p><b>Note</b></p> <p>A reference token, being shorter, has a maximum payload of 4,000 characters. To avoid reaching the maximum payload, remove some of the groups associated with the token. For more information, see <a href="#">Create an Admin Scoped Reference Token</a>.</p>

Consider the following points when you use the Create Token API.

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- The scope is checked and validated - the authenticated principal must have the proper permissions to create a token with the requested scope.
- If the scope includes applied-permissions/user then the token's username must be a valid existing user that is enabled (and not locked or disabled).
- Only an admin can set the username for a name that is not the same as the authenticated principal
- Only an admin can create the token with a group's scope.
- The grant type is expected to be client\_credentials for this API call (this is the default value if not provided).
- From Artifactory 7.50.3, the "force revocable" flag in the tokens has been removed as a default setting and is now a Boolean parameter called force\_revocable in the Create Token REST API. When this parameter is set to true, we will add the force\_revocable flag to the token's extension.

In addition, a new configuration has been added that sets the default for setting the force\_revocable default when creating a new token (the default of this configuration will be "false" to ensure that the Circle of Trust remains in place.)

- From Artifactory 7.63.2, users with basic credentials can create tokens through the REST API.

If you use basic credentials, you must enable creation of tokens in the JFrog Platform UI. For more information, see [Enable Token Generation via API](#). You cannot create a token through a REST API if you enabled multi-factor authentication in the system.

### 4.7.1.2.1 | [Create Scoped Token](#)

The scope parameter in the [Create Token REST API](#) allows you to change the scope of access that the token provides.

Access to the REST API is always provided by default. Administrators can set any scope, while non-admin users can only create Identity Tokens (user scope). From Artifactory version 7.84.3, project admins can create access tokens that are tied to the projects in which they hold administrative privileges.

#### Note

The scope to assign to the token should be provided as a space-separated list of scope tokens, limited to 500 characters.

The supported scopes include:

- Applied Permission Scopes
  - User permissions
  - Admin Permissions
  - Group Permissions
  - Role Permissions
- Resource Permission Scopes
- System Permission Scopes
  - System Metrics Permissions
  - Live Logs Permissions

#### Applied Permission Scopes

These are scopes which apply the permissions based on existing permissions definition in the platform, either of a specific user, groups, admin, or project roles.

#### User Permissions

This scope provides user access as specified in your platform. If left at the default setting, the token will be created with the user-identity scope, which allows users to identify themselves in the Platform but does not grant any other specific access permissions. This scope is used for the user identity tokens.

To apply user permissions, use this scope:

applied-permissions/user

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## Admin Permissions

This scope provides admin access as specified in your platform.

To apply admin permissions, use this scope:

```
applied-permissions/admin
```

## Group Permissions

This scope provides access to groups as specified in your platform. For more information on groups, see [Manage Groups](#).

To apply group permissions, use this scope:

```
applied-permissions/groups:<GROUP_NAME>[,<GROUP_NAME>...]
```

## Note

Make sure to replace the placeholders in <angle brackets> with your own group names.

For example, when setting the following scope in the [Create Token REST API call](#):

```
applied-permissions/groups:"group_1","group_2","group_3"
```

This scope will apply the permissions for the 3 groups:

- "group\_1"
- "group\_2"
- "group\_3"

## Role Permissions

This scope provides access to project roles as specified in your platform. For more information on roles, see [Manage Project Roles](#).

To apply role permissions, use this scope:

```
applied-permissions/roles:<PROJECT_KEY>:<ROLE>[,<ROLE>...]
```

## Note

Make sure to replace the placeholders in <angle brackets> with your own project key and roles.

For example:

```
applied-permissions/roles:jfrogdev:developer,qa
```

This scope will apply the developer and QA role permissions in the jfrogdev project.

When adding a role with more than one word, such as Project Admin, use quotation marks in the scope. For example:

```
applied-permissions/roles:jfrogdev:developer,qa,"Project Admin"
```

## Resource Permission Scopes

Starting from Artifactory version 7.38.x, you can use access tokens with resource permission scopes to provide scoped access to specific resources, without requiring any permissions to be predefined in the platform or in any project.

The resource permission scope follows this structure:

```
<RESOURCE_TYPE>:<TARGET>[/<SUB_RESOURCE>]:<ACTIONS>
```

Where:

Parameter	Description	Example
<RESOURCE_TYPE>	One of the permission resource types, from a predefined closed list. Currently,	artifact

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Parameter	Description	Example
<TARGET>	the only resource type that is supported is the artifact resource type.	
<SUB_RESOURCE>	The target resource, can be exact name or a pattern.	maven-local
<ACTIONS>	(Optional) The target sub-resource, can be exact name or a pattern. If omitted the permission is granted on the entire target resource.	org/**
	A comma-separated list of action acronyms. See note below for supported actions. To allow all actions, use *.	r,w

## Note

- The supported pattern format is ant pattern
- Each resource type supports a different set of actions
- Overall supported actions:
  - "r" - read
  - "w" - write
  - "d" - delete
  - "a" - annotate
  - "x" - execute
  - "s" - scan
  - "m" - manage permissions on the resource

Permission resource types:

Resource Type	Target	Sub-Resource	Actions
artifact	Repository key	Artifact path	<ul style="list-style-type: none"> <li>• Read</li> <li>• Write (Deploy / Cache)</li> <li>• Delete / Overwrite</li> <li>• Annotate</li> <li>• Scan</li> <li>• Manage</li> </ul>

For example, when setting the following scope in the Create Token REST API call:

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```
"scope": "artifact:maven-local/org/**:r,w",
```

Artifactory would generate an access token with read and write permissions to all files under the org folder in the maven-local repository.

## System Permission Scopes

Similar to resource permission scopes, used to grant access to system resources.

### System Metrics Permissions

This scope provides access to getting service metrics information.

To apply system metrics permissions, use this scope:

```
system:metrics:r
```

### Live Logs Permissions

This scope provides access to getting live logs information.

To apply live logs permissions, use this scope:

```
system:livelogs:r
```

### System Access Identities

This scope provides access to getting lists of users or groups.

To apply identity permissions, use this scope:

```
system:identities:r
```

### System Access Permissions

This scope provides access to getting a [list of all the permissions](#) in the environment.

To apply system access permissions, use this scope:

```
system:permissions:r
```

## 4.7.1.2.2 | Create Token API Examples

### Sample Usage with token

```
curl -H "Authorization: Bearer <valid access token>" -XPOST "http://localhost:8082/access/api/v1/tokens" -d "scope=applied-permissions/user"
```

```
200
{
  "token_id": "<id>",
  "access_token": "<access-token>",
  "refresh_token": "<refresh-token>", // optional
  "expires_in": "<seconds>", // optional
  "scope": "applied-permissions/groups:<group-name>"
  "scope": "applied-permissions/user",
  "token_type": "access_token"
}
```

### Sample Usage with user credentials

```
curl -u "login:password" -XPOST "http://localhost:8082/access/api/v1/tokens" -d "scope=applied-permissions/user"
```

```
200
{
  "user_id": "<id>",
  "password": "<password>",
  "refresh_token": "<refresh-token>", // optional
  "expires_in": "<seconds>", // optional
}
```

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```
"scope": "applied-permissions/groups:<group-name>"  
"scope": "applied-permissions/user",  
"token_type": "access_token"  
}
```

### Errors

- **400** - Invalid input, e.g., expires\_invalue is not a number, non-positive number, etc.
- **401** - Unauthenticated
- **403** - The requested token details are forbidden, e.g. expires\_inprovided but is higher than the limit defined by the admin, the user does not have the permissions on the scope he requested, etc.

### 4.7.1.3 | Get Tokens

**Description:** Returns token information, based on the authenticated principal and optional filters.

**Since:** 7.21.1

**Security:** Requires a valid token.

**Usage:** GET /access/api/v1/tokens

**Produces:** application/json

```
{  
  "tokens": [  
    {  
      "token_id": "<id>",  
      "subject": "<subject>",  
      "expiry": "<epoch-in-secs>", // optional  
      "issued_at": "<epoch-in-secs>",  
      "issuer": "<issuer>",  
      "description": "<description>", // optional  
      "refreshable": "<true|false>",  
      "last_used": "<epoch-in-secs>" // optional  
    },  
    ...  
  ]  
}
```

### Note

- An admin user can get all tokens.
- Non-admin user gets only the tokens where his username matches the tokens' username.
- If the query does not find any tokens, a response of 200 (i.e., successful) will be returned but with an empty list of tokens.
- Supports query parameters to filter the response:
  - description=<description> (supports wildcard, the wildcard must to be at the end of the text)
  - refreshable=<true|false>
  - username=<username>

### Note

The last\_used parameter is supported for Artifactory versions 7.108.3 and above. To use it, you need to configure the following system properties:

- access\_token\_last\_used\_enabled: True
- access\_token\_last\_used\_threshold: 900

### Limitations

## JFrog REST APIs Displayed in the header

When using the `last_used` parameter, note that it has the following limitations:

- The returned value might not be precise, and might not include changes from the last 2 hours, due to the verify flow cache or to the `last_used_threshold` parameter which controls the frequency of updates.
- `last_used` is not supported for:
  - Environments using Circle of Trust without Federation configured
  - Short-lived tokens: with an expiry value of less than 6 hours
  - Service, internal, or session tokens: only identity tokens are supported
  - Propagation of `last_used` timestamp to federated JPDs

### Errors:

- **401** - Unauthenticated
- **403** - The authenticated principal has no permissions to get tokens (not a user or not an admin token)

### Sample Usage:

```
curl -XGET -H "Authorization: Bearer <valid access token>" "http://localhost:8082/access/api/v1/tokens?  
description=my%20token*"
```

200 OK

```
{  
  "tokens": [  
    {  
      }, ...  
  ]  
}
```

#### 4.7.1.4 | Get Token by ID

**Description:** Returns the token information by token ID.

**Since:** 7.21.1

**Security:** Requires a valid token.

**Usage:** GET /access/api/v1/tokens/my-id-is-here

GET /access/api/v1/tokens/me

### Note

From Artifactory release 7.53.1, you can also use this API not only with the *token-id* but also with *me* to indicate the currently used token.

From Artifactory Self-Hosted release 7.68, returns token details without validating that the audience field is compatible.

**Produces:** application/json

```
{  
  "token_id": "<id>",  
  "subject": "<subject>",  
  "expiry": "<epoch-in-secs>", // optional  
  "issued_at": "<epoch-in-secs>",  
  "issuer": "<issuer>",  
  "description": "<description>", // optional  
  "refreshable": "<true|false>",  
  "last_used": "<epoch-in-secs>" // optional  
}
```

### Note

An Admin user can get any token.

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A non-admin user can get only a token where the subject matches the username.

### Note

The `last_used` parameter is supported for Artifactory versions 7.108.3 and above. To use it, you need to configure the following system properties:

- `access_token_last_used_enabled: True`
- `access_token_last_used_threshold: 900`

### Limitations

When using the `last_used` parameter, note that it has the following limitations:

- The returned value might not be precise, and might not include changes from the last 2 hours, due to the verify flow cache or to the `last_used_threshold` parameter which controls the frequency of updates.
- `last_used` is not supported for:
  - Environments using Circle of Trust without Federation configured
  - Short-lived tokens: with an expiry value of less than 6 hours
  - Service, internal, or session tokens: only identity tokens are supported
  - Propagation of `last_used` timestamp to federated JPDs

### Errors:

- 401- unauthenticated
- 403- the authenticated principal has no permissions to get the token
- 404- not found

### 4.7.1.5 | Revoke Token by ID

**Description:** Revoke an access token by specifying the `token_id`

**Since:** 7.21.1

**Security:** Requires a valid token.

**Usage:** `DELETE /access/api/v1/tokens/my-id-is-here`

### Note

From Artifactory release 7.53.1, you can also use this API not only with the `token-id` but also with `me` to indicate the currently used token.

**Produces:** application/json

### Sample Usage:

```
curl -H "Authorization: Bearer <valid access token>" -XDELETE "http://localhost:8082/access/api/v1/tokens/7e0eec..."  
200 OK
```

This endpoint can take either of the following parameters:

## JFrog REST APIs Displayed in the header

token_id	The ID of the token to be revoked
----------	-----------------------------------

### Note

- A user can only revoke tokens on which the user is based on their username.
- An admin user can revoke any token.
- A token **can** be used to authenticate a revoke request where the target token ID is of the token being used for authentication.
- If the token ID is not found (e.g., already revoked) - return 204.

### Errors:

- **400** - If the token was created by a different Artifactory instance (and therefore cannot be revoked)
- **401** - Unauthenticated
- **403** - The authenticated principal has no permissions to revoke the requested token

### 4.7.1.6 | Revoke Token by Value

**Description:** Revoke an access token by providing a JSON web token (JWT) or reference token.

**Since:** 7.68

**Authorization:** Requires admin permissions.

**Security:** Requires a valid token.

**Usage:** DELETE /access/api/v1/tokens/revoke

**Consumes:** application/json

#### Sample Usage:

```
curl -H "Authorization: Bearer <Access-token>" -H "Content-Type: application/json" -X DELETE  
"https://<servername>/access/api/v1/tokens/revoke" -d '{"token":"<token-value>"}'
```

```
200 OK {"revoked-token-id":"123-123-123"}
```

This endpoint can accept the following parameter:

token	The JWT or reference token value for the token to be revoked
-------	--

### Errors:

- **400** - If the token was created by a different Artifactory instance (and therefore cannot be revoked)
- **401** - Unauthenticated
- **403** - The authenticated principal has no permissions to revoke the requested token

### 4.7.1.7 | Refresh Token

**Description:** Refreshes an existing access token without having to provide the old token. The Refresh Token is the same API endpoint as Create Token, with a specific grant type: `refresh_token`.

**Since:** 7.37.9

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**Security:** Requires a valid token.

**Usage:** POST /access/api/v1/tokens

**Authorization:** <authorization header value>

**Content-Type:** application/x-www-form-urlencoded and application/json

**Produces:** application/json (see Create Token)

## Note

- The authenticated user must match the user of the access token being refreshed (identified by the refresh token)
- Starting from Artifactory version 7.59.5, it is possible to enable a grace period in which you will be able to refresh a token that has expired using the Refresh Token REST API.

To enable it, set the refresh-expiry parameter in your system configuration file with the length of the grace period in seconds.

## Sample Usage:

```
curl -H "Authorization: Bearer <valid access token>" -XPOST "http://localhost:8082/access/api/v1/tokens" -d "grant_type=refresh_token" -d "refresh_token=<refresh-token>"
```

```
200
{
  "token_id": "<id>",
  "access_token": "<access-token>",
  "expires_in": "<expiry>",           // optional
  "grant_type": "refresh_token",
  "refresh_token": "<refresh-token>"
}
```

This endpoint takes the following parameters.

grant_type	Should be set to refresh_token
refresh_token	The value of refresh token of the access token that needs to be refreshed: <refresh-token>

For all other parameters, see see Create Token.

## Errors:

- **400:** If the token was created by a different Artifactory instance (and therefore cannot be refreshed)

## 4.7.1.8 | Get Token Default Expiry Value

**Description:** Get your system's token default expiry value.

**Since:** 7.62.x

**Security:** Requires a user with admin permissions.

**Usage:** GET api/v1/config/token/default\_expiry

**Produces:** application/json

## Sample Output:

```
curl -H "Content-type: application/json" -H "Authorization: Bearer ACCESS_TOKEN" -XGET
http://localhost:8082/access/api/v1/config/token/default_expiry
```

```
{
```

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```
"default_token_expiration" : 32000000  
}
```

### 4.7.1.9 | Put Token Default Expiry Value

**Description:** Set your system's token default expiry value.

**Since:** 7.62.x

**Security:** Requires a user with admin permissions.

**Usage:** PUT /access/api/v1/config/token/default\_expiry

The value of default\_expiry is in seconds.

**Produces:** application/json

**Example:**

```
curl -H "Content-type: application/json" -H "Authorization: Bearer ACCESS_TOKEN" -XPUT  
"http://localhost:8082/access/api/v1/config/token/default_expiry" -d \  
'{  
    "default_token_expiration": 32000000  
}'  
  
{  
    "default_token_expiration" : 32000000  
}
```

### 4.7.1.10 | Pairing Token

A pairing token is an access token used for the initial pairing flow. This type of token is designed as a limited access token, is dedicated to a specific task, and is short lived.

- A pairing token is created per use case, and the audience of the token targets a specific service, namely the same service that issued the token.
- The default expiry of a pairing token is 5 minutes.
- The token subject is the same as the subject of the principal who requested the pairing token.
- This token is revocable and is expected to be used at most once (i.e., revoked after the first pairing)
- The base URL in the extension is mandatory and its goal is to assist services (instead of parsing and cutting the pairing URL to extract it). This is the same as expected to be defined for the request header X-JFrog-Override-Base-Url
- The exchange URL in the extension is mandatory (since the token is signed, this URL can be assumed as trusted)
- The pairing URL is optional and is used when establishing two-way trust is needed.

The result of a pairing is the **master token**. This access token grants the requesting service all the actions it is required to do on the issuing service, based on the given use case. It is usually a strong access token that can be used for several operations.

### 4.7.1.11 | Create Pairing Token

This endpoint can be per use case or one for all (or some) use cases. The decision should be made based on service and use case requirements. The following definition is for an endpoint that serves several use cases.

**Description:** Creates a pairing token for a specific use case.

**Since:** 7.29.7

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**Authorization:** Requires admin permissions.

**Usage:** POST /<svc>/api/v1/service\_trust/pairing/{use-case}

## Note

The use-case in the usage above is per service, per use case, where <svc> should hold the service type. For example::

- mission-control- for pairing an edge with Mission Control
- artifactory-cold- for establishing trust between "warm" and "cold" instances
- artifactory-cold/<ns> - re-establish a revoked trust with a given namespace

**Content-Type:**application/json

**Produces:** application/json

## Sample Usage:

*Sample Usage for Federated Repository*

```
POST /artifactory/api/v1/service_trust/pairing/{federated-repo/*}
200
{
  "pairing_token": "<pairing-token>"
}
```

*Sample Usage for Mission Control*

```
POST /access/api/v1/service_trust/pairing/mission-control
200
{
  "pairing_token": "<pairing-token>"
}
```

## Sample Response:

```
{
  "ext": "",
  "\\"base_url\\": \"http://localhost:9092\", \\"exchange_url\\\": \"http://localhost:9092/artifactory/api/v1/service_trust/exchange\",
  \\"revocable\\\":true\",
  \"sub\": \"jfrt@01fnba8awk5na51pmjmh15qk/users/admin\",
  \"scp\": \"internal:service-trust/pairing/federated-repo/*:x\",
  \"aud\": \"jfrt@01fnba8awk5na51pmjmh15qk\",
  \"iss\": \"jfrt@01fnba8awk5na51pmjmh15qk/users/admin\",
  \"exp\": 1637836575,
  \"iat\": 1637836275,
  \"jti\": \"4be13896-2fef-418d-b07c-951cbd05ba71\""
}
```

## Error Response Codes:

**404** Not found - the specified use case is unknown to the service

### 4.7.1.12 | Initiate Pairing

**Description:** Initiates the pairing between the services. This endpoint can be per use case or one for all (or some) use cases.

**Since:** 7.29.7

**Authorization:** Requires admin permissions.

**Usage:** PUT /<svc>/api/v1/service\_trust/pairing/{use-case}

## JFrog REST APIs Displayed in the header

### Note

- `use_case` = the use case for which to create the pairing token
- `pairing_token` = the pairing token the source service will use to initiate the pairing with the target. This is the same pairing token that was created by the target of the pairing.

**Content-Type:** application/json **Produces:** application/json **Sample Usage:**

```
PUT /artifactory/api/v1/service_trust/pairing/{federated-repo/repokey}
{
  "pairing_token": "<pairing-token>"
}

200
{
  "message": "Trust with Artifactory was established successfully"
}
```

### Error Response Codes:

**404** Not found - the specified use case is unknown to the service

### 4.7.1.13 | Get Pairings

**Description:** Returns the list of target-paired JPDs for a given use case.

**Since:** 7.29.7

**Authorization:** Requires admin permissions.

**Usage:** GET /<svc>/api/v1/service\_trust/pairings/{use-case}

### Note

- `use_case`= the use case for which to get the pairings
- `base_url` = the base URL of the target, as provided in the pairing token

**Content-Type:** application/json

**Produces:** application/json

### Sample Usage:

```
GET /<svc>/api/v1/service_trust/pairings/{use-case}

200
[
  {
    "base_url": "<base-url>"
  },
  ...
]
```

### Success Response Codes:

**200** OK response with an empty list in case there are no paired targets for the given use case

### Error Response Codes:

**404** Not found - the specified use case is unknown to the service

### 4.7.1.14 | Revoke Pairing

**Description:** Deletes the master token for paired JPDs.

## JFrog REST APIs Displayed in the header

**Since:** 7.29.7

**Authorization:** Requires admin permissions.

**Usage:** DELETE /<svc>/api/v1/service\_trust/pairings/\*

**Content-Type:** application/json

**Produces:** application/json

**Sample Request:**

```
{  
    "base_url": "http://<old base URL>" (without "/artifactory")  
}
```

**Sample Response:** {none}

**Status Codes:**

Code	Description
200	Deleted
404	Base URL not found

### 4.7.1.15 | Enable Log Collection

**Description:** Enables log collection into a dedicated Logs Artifactory System Repository, to improve auditing capabilities.

- Logs are collected in a dedicated system repository called jfrog-logs.

#### Note

The repository will be created upon calling the API.

- Logs are collected in a cycle that may take up to 24 hours.
- By default, the log types collected are audit and request logs.

#### Note

Available for Cloud subscriptions only.

#### Important

The data transfer and storage you consume for downloading or storing the logs will apply against your standard cloud usage, and may incur costs.

**Since:** 7.27.6

**Security:** Requires a valid admin-scoped token.

**Authorization:** Bearer

**Usage:** POST/access/api/v1/logshipping/config

**Content-Type:** application/json

#### Sample Usage

```
{"enabled": true/false}
```

#### Example

```
curl -XPOST -H "Content-Type: application/json" -d'{"enabled": true}' -H "Authorization: Bearer <ADMIN ACCESS-TOKEN>" -v https://<JFROG_PLATFORM_URL>/access/api/v1/logshipping/config
```

#### Response Codes:

200 OK

201 Created

400 / 401 Failure or unauthorized

### 4.7.2 | Export Access Configuration

**Description:** Creates a JSON file with the Access configuration as **\$JFROG\_HOME/artifactory/var/backup/access**

#### Security:

- **Prior to release 7.12.0:** Requires an admin user (basic credentials only). Requires execution from access localhost.
- **From release 7.12.0:** Requires a valid **admin-scoped token**. The API no longer supports basic authentication.

**Usage:** POST /api/v1/system/backup/export

#### Sample Usage:

```
curl -H "Authorization: Bearer <Token>" -XPOST "http://localhost:8082/access/api/v1/system/backup/export"
```

### 4.7.3 | Import Access Configuration

**Description:** Reads and imports an Access configuration JSON file: **\$JFROG\_HOME/artifactory/var/etc/access /access.bootstrap.json**

#### Security:

- **Prior to release 7.12.0:** Requires an admin user (basic credentials only). Requires execution from access localhost.
- **From release 7.12.0:** Requires a valid **admin-scoped token**. The API no longer supports basic authentication.

**Usage:** POST /api/v1/system/backup/import

#### Sample Usage:

```
curl -H "Authorization: Bearer <Token>" -XPOST "http://localhost:8082/access/api/v1/system/backup/import"
```

### 4.7.4 | Ping Request

**Description:** Sends a ping request

#### Security:

- **Prior to release 7.12.0:** Requires an admin user (basic credentials only). Requires execution from access localhost.
- **From release 7.12.0:** Requires a valid **admin-scoped token**. The API no longer supports basic authentication.

**Usage:** GET /system/ping

**Produces:** text/plain

#### Sample usage:

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```
curl -H "Authorization: Bearer <Token>" http://localhost:8082/access/api/v1/system/ping
```

**Response Codes:** 200 Ping successful

### 4.7.5 | Get Root Certificate

**Description:** Get public Root Certificate

**Security:**

- **Prior to release 7.12.0:** Requires an admin user (basic credentials only). Requires execution from access localhost.
- **From release 7.12.0:** Does not require authentication.

**Usage:** GET /api/v1/cert/root

**Produces:** text/plain

**Query parameter (optional):**?formatted=true -returns the certificate in a formatted representation (prefix, suffix and alignment)

**Sample usage:**

```
curl "http://localhost:8082/access/api/v1/cert/root"  
or  
curl "http://localhost:8082/access/api/v1/cert/root?formatted=true"
```

**Response Codes:** 200 successful

### 4.7.6 | Get CA Public Certificate

**Description:** Get CA public certificate

**Security:** Requires an admin token.

**Usage:** GET /api/v1/cert/ca

**Produces:** text/plain

**Sample usage:**

```
curl "http://localhost:8082/access/api/v1/cert/ca"
```

**Response Codes:** 200 successful

### 4.7.7 | Access Federation

The following APIs are available for Access Federation.

- Get All Access Federations
- Register Access Federation
- Get Access Federation
- Delete Access Federation
- Update Access Federation
- Validate Target for Circle of Trust
- Full Broadcast Access Federation

#### 4.7.7.1 | Get All Access Federations

**Description:** Returns all federation targets' configurations.

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## Security:

- **Prior to release 7.12.0:** Requires an admin user (basic credentials only). Requires execution from access localhost.
- **From release 7.12.0:** Requires a valid **admin-scoped token**. The API no longer supports basic authentication.

**Usage:** GET /api/v1/system/federation

**Produces:** text/plain

## Sample Usage

```
curl -H "Authorization: Bearer <Token>" GET "http://localhost:8082/access/api/v1/system/federation/" -H "accept: application/json"
```

## Response Codes:

**200** Successful operation

**200 Successful operation**

```
{
  "configurations": [
    {
      "name": "access-2",
      "url": "https://access.example.com/access/",
      "entities": [
        "users",
        "groups",
        "permissions"
      ],
      "permissionFilters": {
        "includePatterns": [
          "team_a_"
        ],
        "excludePatterns": [
          "none_federated_"
        ]
      },
      "active": true
    }
  ]
}
```

**401 / 403** Unauthenticated or unauthorized

## 4.7.7.2 | Register Access Federation

**Description:** Registers a new federation target.

## Security:

- **Prior to release 7.12.0:** Requires an admin user (basic credentials only). Requires execution from access localhost.
- **From release 7.12.0:** Requires a valid **admin-scoped token**. The API no longer supports basic authentication.

**Usage:** POST /api/v1/system/federation

**Produces:** text/plain

## Sample usage:

```
curl -H "Authorization: Bearer <Token>" http://localhost:8082/access/api/v1/system/federation/ -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"name\": \"access-2\", \"url\": \"https://access.example.com/access/\", \"entities\": [ \"users\", \"groups\", \"permissions\" ], \"permissionFilters\": { \"includePatterns\": [ \"team_a_*\" ], \"excludePatterns\": [ \"none_federated_*\" ] }, \"active\": true}"
```

## Response Codes:

**201** Successfully registered

```
{  
  "name": "access-2",  
  "url": "https://access.example.com/access/",  
  "entities": [  
    "users",  
    "groups",  
    "permissions"  
,  
  "permissionFilters": {  
    "includePatterns": [  
      "team_a_"  
    ],  
    "excludePatterns": [  
      "none_federated_"  
    ]  
  },  
  "active": true  
}
```

**400** Invalid input

**401** Unauthorized

**403** Forbidden

**404** Already exists

#### 4.7.7.3 | Get Access Federation

**Description:** Returns the name of the federation target to unregister.

**Security:**

- **Prior to release 7.12.0:** Requires an admin user (basic credentials only). Requires execution from access localhost.
- **From release 7.12.0:** Requires a valid **admin-scoped token**. The API no longer supports basic authentication.

**Usage:** GET /api/v1/system/federation/{server\_name}

**Produces:** text/plain

**Sample Usage**

```
curl -H "Authorization: Bearer <Token>" GET "http://localhost:8082/access/api/v1/system/federation/{server_name}" -H "accept: application/json"
```

**Response Codes:**

**200** Successful operation

**200 Successful operation**

```
{  
  "name": "access-2",  
  "url": "https://access.example.com/access/",  
  "entities": [  
    "users",  
    "groups",  
    "permissions"  
,  
  "permissionFilters": {  
    "includePatterns": [  
      "team_a_"  
    ],  
    "excludePatterns": [  
      "none_federated_"  
    ]  
  },  
},
```

## JFrog REST APIs Displayed in the header

```
"active": true  
}
```

**401** Unauthorized

**403** Forbidden

**404** No such federation target

### 4.7.7.4 | Delete Access Federation

**Description:** Unregisters a federation target.

**Security:**

- **Prior to release 7.12.0:** Requires an admin user (basic credentials only). Requires execution from access localhost.
- **From release 7.12.0:** Requires a valid **admin-scoped token**. The API no longer supports basic authentication.

**Usage:** DELETE /api/v1/system/federation/{server\_name}

**Produces:** text/plain

**Sample usage:**

```
curl -H "Authorization: Bearer <Token>" -X DELETE "http://localhost:8082/access/api/v1/system/federation/{server_name}" -H "accept: application/json"
```

**Response Codes:**

**204** Successfully unregistered

**401** Unauthorized

**403** Forbidden

**404** No such federation target

### 4.7.7.5 | Update Access Federation

**Description:** Updates (patch) federation target configurations.

**Security:**

- **Prior to release 7.12.0:** Requires an admin user (basic credentials only). Requires execution from access localhost.
- **From release 7.12.0:** Requires a valid **admin-scoped token**. The API no longer supports basic authentication.

**Usage:** PATCH /api/v1/system/federation/{server\_name}

**Produces:** text/plain

**Sample usage:**

```
curl -H "Authorization: Bearer <Token>" PATCH {"http://localhost:8082/access/api/v1/system/federation/ {server_name}"} -H "accept: application/json" -H "Content-Type: application/json" -d {"entities": ["users", "groups"], "permissions": [{"include_patterns": ["team_a_*"], "exclude_patterns": ["none_federated_*"]}], "active": true}
```

**Response Codes:** 204 Successful operation

```
{  
  "name": "access-2",  
  "url": "https://access.example.com/access/",  
  "entities": [  
    "users",  
    "groups",  
    "permissions",  
    "active": true  
  ]}
```

## JFrog REST APIs Displayed in the header

```
"groups",
"permissions"
],
"permissionFilters": {
  "includePatterns": [
    "team_a_"
  ],
  "excludePatterns": [
    "none_federated_"
  ]
},
"active": true
}
```

**400** Invalid input

**401** Unauthorized

**403** Forbidden

### 4.7.7.6 | Validate Target for Circle of Trust

**Description:** Validates target for circle of trust.

**Security:**

- **Prior to release 7.12.0:** Requires an admin user (basic credentials only). Requires execution from access localhost.
- **From release 7.12.0:** Requires a valid **admin-scoped token**. The API no longer supports basic authentication.

**Usage:** POST /api/v1/system/federation/validate\_server

**Produces:** text/plain

**Sample usage:**

```
curl -H "Authorization: Bearer <TOKEN>" -XPOST "<ART_URL_1>/access/api/v1/system/federation/validate_server" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"url\": \"<ART_URL_2>/access\"}" -v
```

**Response Codes:**

**204** Successfully validated

**400** Invalid input

**401** Unauthorized

**403** Forbidden

**412** Precondition Failed - Circle of trust validation failed (response from target server: XXX)

### 4.7.7.7 | Full Broadcast Access Federation

**Description:** Invokes Access Federation full broadcast from a single federation source to all its federation targets.

**Security:**

- **Prior to release 7.12.0:** Requires an admin user (basic credentials only). Requires execution from access localhost.
- **From release 7.12.0:** Requires a valid **admin-scoped token**. The API no longer supports basic authentication.

**Usage:** PUT /api/v1/system/federation/<federation\_target\_servername>/full\_broadcast

**Produces:** text/plain

**Sample usage:**

## JFrog REST APIs Displayed in the header

```
curl -H "Authorization: Bearer <Token>" http://localhost:8082/access/api/v1/system/federation/<Access Service ID - Ex:  
>jfac@abc[...]123"/full_broadcast -XPUT
```

**Response Codes:** 204 Successful operation

**Description:** Invokes Access Federation full broadcast from a single federation source to all its federation targets. This API targets the server's access\_id.

### Note

You can obtain the access\_id from the source's access.config.latest.yaml's outbound section.

### Security:

- **Prior to release 7.12.0:** Requires an admin user (basic credentials only). Requires execution from access localhost.
- **From release 7.12.0:** Requires a valid **admin-scoped token**. The API no longer supports basic authentication.

**Usage:** PUT /api/v1/system/federation/<federation\_target\_servername>/full\_broadcast

**Produces:** text/plain

### Sample usage:

```
curl -H "Authorization: Bearer <Token>"  
http://localhost:8082/access/api/v1/system/federation/<federation_target_access_id>/full_broadcast -XPUT
```

For example:

```
curl -H "Authorization: Bearer <Token>"  
http://localhost:8082/access/api/v1/system/federation/jfac@01ep443hcx10x00djcdsp31d56/full_broadcast -XPUT
```

### Response Codes:

**204** Successful operation

## 4.7.8 | SCIM for Users

The following APIs are used to manage users with the SCIM protocol.

### Note

User names are converted to lowercase automatically.

### 4.7.8.1 | GET Users by Filter

**Description:** This API will fetch users' details when you add a filter query parameter in the form of filter=userName eq "username". When a filter is not provided, the response will contain all users. For more information, see [GET Users by Filter](#)

**Usage:** GET /api/v1/scim/v2/Users?filter=userName eq "username"

**Query parameters (optional):** ?filter=userName eq "username"

**Produces:** application/scim+json; charset=UTF-8

**Header parameter:** Authorization: Bearer

### Sample response:

**200 - OK - user exists**

```
{  
  "totalResults": 1,  
  "itemsPerPage": 20,  
  "startIndex": 1,  
  "Resources": [  
    {  
      "id": "bjensen@examplecom",  
      "userName": "bjensen@examplecom",  
      "name": {  
        "givenName": "Bj\"orn",  
        "familyName": "Jensen",  
        "middleName": null,  
        "namePrefix": null,  
        "nameSuffix": null,  
        "nameTitle": null  
      },  
      "active": true,  
      "meta": {  
        "resourceType": "User",  
        "lastModified": "2018-01-12T10:00:00Z",  
        "version": 1  
      }  
    }  
  ]  
}
```

## JFrog REST APIs Displayed in the header

```
"active": true,
"emails": [
  {
    "primary": true,
    "value": "bjensen@wso2.com"
  }
],
"groups": [
  {
    "value": "readers"
  }
],
"schemas": [
  "urn:ietf:params:scim:schemas:core:2.0:User"
],
"meta": {
  "resourceType": "User"
}
},
],
"schemas": [
  "urn:ietf:params:scim:api:messages:2.0>ListResponse"
]
}
```

Sample response when user does not exist:

### 200 - OK - user does not exist

```
{
  "totalResults": 0,
  "itemsPerPage": 20,
  "startIndex": 1,
  "Resources": [],
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0>ListResponse"
  ]
}
```

#### 4.7.8.2 | GET Specific User

**Description:** This API will fetch the user details, where id is the username.

**Usage:** GET /api/v1/scim/v2/Users/<id>

**Produces:** application/scim+json; charset=UTF-8

**Header parameter:** Authorization: Bearer

**Sample response:**

### 200 - OK - user exists

```
{
  "id": "bjensen@examplecom",
  "userName": "bjensen@examplecom",
  "active": true,
  "emails": [
    {
      "primary": true,
      "value": "bjensen@wso2.com"
    }
  ],
  "groups": [
    {
      "value": "readers"
    }
  ],
  "schemas": [

```

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```
"urn:ietf:params:scim:schemas:core:2.0:User"
],
"meta": {
    "resourceType": "User"
}
}
```

Sample response when user does not exist:

### 200 - OK - User does not exist

```
{
    "status": 404,
    "detail": "notexistuser isn't found",
    "schemas": [
        "urn:ietf:params:scim:api:messages:2.0:Error"
    ]
}
```

#### 4.7.8.3 | GET Users

**Description:** This API fetches details of all users.

You can use the API without any filter query parameter to return the list of the first 20 users. You can add the query parameter, `startIndex=x&count=y`, to fetch y number of users from the xth number of user. For example, `startIndex=1&count=100` fetches the first 100 users and `startIndex=96&count=5` gets the five users from the first 100 users.

If you wish to get the details of all users, you can do it through two API calls. The response for the first API call with the parameter, `startIndex=1&count=0`, provides `totalResults` with the total number of users. You can send a second API call with the parameter, `startIndex=1&count="value of totalResults"` to get the details of all users in the system.

**Usage:** GET /api/v1/scim/v2/Users

**Query parameters (optional):** ?`startIndex=x&count=y`

**Produces:** application/scim+json; charset=UTF-8

**Header parameter:** Authorization: Bearer

**Sample response:**

### 200 - OK - user exists

```
{
    "totalResults": 1,
    "itemsPerPage": 1,
    "startIndex": 1,
    "Resources": [
        {
            "id": "bjensen@examplecom",
            "userName": "bjensen@examplecom",
            "active": true,
            "emails": [
                {
                    "primary": true,
                    "value": "bjensen@wso2.com"
                }
            ],
            "groups": [
                {
                    "value": "readers"
                }
            ],
            "schemas": [
                "urn:ietf:params:scim:schemas:core:2.0:User"
            ],
            "meta": {

```

## JFrog REST APIs Displayed in the header

```
        "resourceType": "User"
    }
},
],
"schemas": [
    "urn:ietf:params:scim:api:messages:2.0>ListResponse"
]
}
}
```

**200 - OK - user does not exist**

```
{
    "totalResults": 0,
    "itemsPerPage": 0,
    "startIndex": 1,
    "Resources": [],
    "schemas": [
        "urn:ietf:params:scim:api:messages:2.0>ListResponse"
    ]
}
```

To Fetch Details of all Users

The first API call to get the total number of users in the system.

```
GET /api/v1/scim/v2/Users?startIndex=1&count=0
```

**Sample response**

**200 - OK**

```
{
    "totalResults": 2370,
    "itemsPerPage": 0,
    "startIndex": 1,
    "Resources": [],
    "schemas": [
        "urn:ietf:params:scim:api:messages:2.0>ListResponse"
    ]
}
```

The second API call to get the total number of users in the system.

```
GET /api/v1/scim/v2/Users?startIndex=1&count=2370
```

### 4.7.8.4 | CREATE Users

**Description:** This API will create a single user.

**Usage:** POST /api/v1/scim/v2/Users

**Consumes:** application/scim+json; charset=UTF-8

**Sample request:**

```
{
    "schemas": [
        "urn:ietf:params:scim:schemas:core:2.0:User"
    ],
    "userName": "yanivm@example.com",
    "active": true,
    "emails": [
        {
            "value": "yanivm@example.com",
            "primary": true
        }
    ]
}
```

# JFrog REST APIs Displayed in the header

**Produces:** application/scim+json; charset=UTF-8

**Header parameter:** Authorization: Bearer

**Sample response:**

**201 - Created**

```
{  
    "id": "yanivm@example.com",  
    "userName": "yanivm@example.com",  
    "active": true,  
    "emails": [  
        {  
            "primary": true,  
            "value": "yanivm@example.com"  
        }  
    ],  
    "groups": [  
        {  
            "value": "readers"  
        }  
    ],  
    "schemas": [  
        "urn:ietf:params:scim:schemas:core:2.0:User"  
    ],  
    "meta": {  
        "resourceType": "User"  
    }  
}
```

## 4.7.8.5 | UPDATE User

**Important**

Update currently supports only disabling and re-enabling users.

**Description:** This API allows to disable or re-enable the user status by editing the “active” attribute.

**Usage:** PUT /api/v1/scim/v2/Users/<id>

**Consumes:** application/scim+json; charset=UTF-8

**Sample request:**

```
{  
    "id": "jbibinka2@example.com",  
    "userName": "jbibinka2@example.com",  
    "active": true,  
    "emails": [  
        {  
            "primary": true,  
            "value": "jbibinka2@example.com"  
        }  
    ],  
    "schemas": [  
        "urn:ietf:params:scim:schemas:core:2.0:User"  
    ]  
}
```

**Produces:** application/scim+json; charset=UTF-8

**Header parameter:** Authorization: Bearer **Sample response:**

**200 - OK**

```
{  
    "id": "jbibinka2@example.com",  
    "userName": "jbibinka2@example.com",
```

# JFrog REST APIs Displayed in the header

```
"active": true,  
"emails": [  
  {  
    "primary": true,  
    "value": "jbibinka2@example.com"  
  }  
,  
  "groups": [  
    {  
      "value": "readers"  
    }  
,  
  "schemas": [  
    "urn:ietf:params:scim:schemas:core:2.0:User"  
  ],  
  "meta": {  
    "resourceType": "User"  
  }  
}
```

## 4.7.8.6 | DISABLE User

### Important

Disable currently supports only disabling/re-enabling a single user.

**Description:** This API allows to disable or re-enable the user status by editing the “active” attribute.

**Usage:** PATCH /api/v1/scim/v2/Users/<id>

**Consumes:** application/scim+json; charset=UTF-8

**Sample request:**

```
{  
  "schemas": ["urn:ietf:params:scim:api:messages:2.0:PatchOp"],  
  "Operations": [  
    {  
      "op": "Replace",  
      "path": "active",  
      "value": false  
    }]  
}
```

**Produces:** application/scim+json; charset=UTF-8

**Header parameter:** Authorization: Bearer

**Sample response:**

**200 - OK**

```
{  
  "id": "jbibinka2@example.com",  
  "userName": "jbibinka2@example.com",  
  "active": false,  
  "emails": [  
    {  
      "primary": true,  
      "value": "jbibinka2@example.com"  
    }  
,  
  "groups": [  
    {  
      "value": "readers"  
    }  
,  
  "schemas": [  
    "urn:ietf:params:scim:schemas:core:2.0:User"
```

```
],
"meta": {
  "resourceType": "User"
}
}
```

#### 4.7.8.7 | DELETE User

**Description:** This API will delete a single user.

**Usage:** DELETE /api/v1/scim/v2/Users/<id>

**Header parameter:**Authorization: Bearer

**Sample response:**204 - No Content

#### 4.7.9 | SCIM for Groups

The following APIs are used to manage groups with the SCIM protocol.

##### 4.7.9.1 | Get Groups

**Description:** This API fetches the details of groups.

You can use the API without any filter query parameter to return the list of the first 20 groups. You can add the query parameter, startIndex=x&count=y, to fetch y number of groups from the xth number of group. For example, startIndex=1&count=25 fetches the first 25 groups and startIndex=20&count=5 gets the five groups from the first 25 groups.

If you wish to get the details of all groups, you can do it through two API calls. The response for the first API call with the parameter, startIndex=1&count=0, provides totalResults with the total number of groups. You can send a second API call with the parameter, startIndex=1&count="value of totalResults" to get the details of all groups in the system.

##### Note

For Azure users, the excludedAttributes parameter is supported in the following format: GET/api/v1/scim/v2/Groups/<groupName>?excludedAttributes=member

**Usage:** GET/api/v1/scim/v2/Groups?startIndex=x&count=

**Produces:** application/scim+json; charset=UTF-8

**Header parameter:**Authorization: Bearer

**Sample response:**

##### To Fetch Details of all Groups

**The first API call to get the total number of groups in the system.**

GET /api/v1/scim/v2/Groups?startIndex=1&count=0

**Sample response**

##### 200 - OK

```
{
  "totalResults": 23,
  "itemsPerPage": 0,
  "startIndex": 1,
  "Resources": [],
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0>ListResponse"
  ]
}
```

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The second API call to get all the groups in the system.

```
GET /api/v1/scim/v2/Groups?startIndex=1&count=23
```

### 4.7.9.2 | Get Group by Name

**Description:** This API will fetch the group details.

#### Note

For Azure users, the excludedAttributes parameter is supported in the following format: GET /api/v1/scim/v2/Groups?startIndex=1&count=0&excludedAttributes=members

**Usage:** GET/api/v1/scim/v2/Groups/<groupName>

**Produces:** application/scim+json; charset=UTF-8

**Header parameter:** Authorization: Bearer

**Sample response:**

#### 200 - OK - group exists

```
{
  "displayName": "examplegroup",
  "id": "examplegroup",
  "members": [
    {
      "value": "anonymous",
      "display": "anonymous"
    }
  ],
  "schemas": [
    "urn:ietf:params:scim:schemas:core:2.0:Group"
  ],
  "meta": {
    "resourceType": "Group"
  }
}
```

Sample response when group is not found:

#### 404 - Group not found

```
{
  "status": 404,
  "detail": "examplesgroup isn't found",
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:Error"
  ]
}
```

### 4.7.9.3 | Get Group by Filter

**Description:** This API will fetch the group details, searched by the filter query parameter. When a filter is not provided, the response will contain all groups. For more information, see [Get Groups](#)

**Usage:** GET/api/v1/scim/v2/Groups?filter = displayName eq "groupName"

**Produces:** application/scim+json; charset=UTF-8

**Header parameter:** Authorization: Bearer

**Sample response:**

#### 200 - OK - group exists

# JFrog REST APIs Displayed in the header

```
[  
  {  
    "totalResults": 1,  
    "itemsPerPage": 20,  
    "startIndex": 1,  
    "Resources": [  
      {  
        "displayName": "readers",  
        "id": "readers",  
        "description": "A group for read-only users",  
        "members": [],  
        "schemas": [  
          "urn:ietf:params:scim:schemas:core:2.0:Group"  
        ],  
        "meta": null,  
        "resourceType": "Group"  
      }  
    ],  
    "schemas": [  
      "urn:ietf:params:scim:api:messages:2.0>ListResponse"  
    ]  
  }  
]
```

Sample response when group does not exist:

## 200 - OK - Group does not exist

```
{  
  "totalResults": 0,  
  "itemsPerPage": 20,  
  "startIndex": 1,  
  "Resources": [],  
  "schemas": [  
    "urn:ietf:params:scim:api:messages:2.0>ListResponse"  
  ]  
}
```

### 4.7.9.4 | Create Group

**Description:** This API will create a group.

**Usage:** POST/api/v1/scim/v2/Groups

**Consumes:** application/scim+json; charset=UTF-8

**Header parameter:** Authorization: Bearer

**Sample request:**

```
{  
  "schemas": [  
    "urn:ietf:params:scim:schemas:core:2.0:Group"  
  ],  
  "displayName": "exampleGroup",  
  "id": "examplegroup",  
  "members": [  
    {  
      "display": "anonymous",  
      "value": "anonymous"  
    }  
  ]  
}
```

**Produces:** application/scim+json; charset=UTF-8

**Sample response:**

**201- created**

# JFrog REST APIs Displayed in the header

```
{  
    "displayName": "exampleGroup",  
    "id": "exampleGroup",  
    "members": [  
        {  
            "value": "anonymous",  
            "display": "anonymous"  
        }  
    ],  
    "schemas": [  
        "urn:ietf:params:scim:schemas:core:2.0:Group"  
    ],  
    "meta": {  
        "resourceType": "Group"  
    }  
}
```

## 4.7.9.5 | Update Group

### Important

Update currently supports only adding/removing members from the group.

**Description :** This API allows to add or remove members from the group.

**Usage :** PUT/api/v1/scim/v2/Groups/<groupName>

**Header parameter:** Authorization: Bearer

**Consumes :** application/scim+json; charset=UTF-8

### Sample request:

```
{  
    "schemas": [  
        "urn:ietf:params:scim:schemas:core:2.0:Group"  
    ],  
    "displayName": "newName",  
    "id": "newName",  
    "members": [  
        {  
            "display": "newMember",  
            "value": "newMember"  
        },  
        {  
            "value": "anonymous",  
            "display": "anonymous"  
        }  
    ]  
}
```

**Produces:** application/scim+json; charset=UTF-8

**Sample response:** 200- OK

### 200 - OK

```
{  
    "displayName": "exampleGroup",  
    "id": "newName",  
    "members": [  
        {  
            "display": "newMember",  
            "value": "newMember"  
        },  
        {  
            "value": "anonymous",  
            "display": "anonymous"  
        }  
    ]  
}
```

# JFrog REST APIs Displayed in the header

```
    },
    ],
    "schemas": [
        "urn:ietf:params:scim:schemas:core:2.0:Group"
    ],
    "meta": {
        "resourceType": "Group"
    }
}
```

## 4.7.9.6 | Patch Group

### Important

Patch currently supports only adding/removing members from the group.

**Description:** This API allows to add/remove members from the group.

**Usage:** PATCH/api/v1/scim/v2/Groups/<groupName>

**Header parameter:** Authorization: Bearer

**Consumes:** application/scim+json; charset=UTF-8

**Sample request:**

```
{
    "schemas": ["urn:ietf:params:scim:api:messages:2.0:PatchOp"],
    "Operations": [
        {
            "op": "Add",
            "path": "members",
            "value": [
                {
                    "$ref": null,
                    "value": "newMember"
                }
            ]
        }
    ]
}
```

**Produces:** application/scim+json; charset=UTF-8

**Sample response:**

**200 - OK**

```
{
    "displayName": "exampleGroup",
    "id": "newName",
    "members": [
        {
            "display": "newMember",
            "value": "newMember"
        },
        {
            "value": "anonymous",
            "display": "anonymous"
        }
    ],
    "schemas": [
        "urn:ietf:params:scim:schemas:core:2.0:Group"
    ],
    "meta": {
        "resourceType": "Group"
    }
}
```

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### 4.7.9.7 | Delete Group

**Description:** This API will delete a single group.

**Usage:** `DELETE /api/v1/scim/v2/Groups/<groupName>`

**Header parameter:** Authorization: Bearer

**Sample response:** 204 - No Content

### 4.7.10 | OIDC Integration API

OIDC integration REST APIs allow you to create and configure OIDC integrations so that you can implement secure passwordless access to JFrog Platform from applications that support OIDC. For more information, see OpenID Connect Integration.

#### 4.7.10.1 | Create OIDC Configuration

**Description:** Creates a new OIDC configuration.

**Since:** Artifactory Cloud 7.73.1, Artifactory Self Hosted 7.77.3.

**Security:** Requires a valid admin token

**Usage:** `POST /access/api/v1/oidc {JSON with OIDC Configuration}`

**Produces:** application/json

**Header parameter:** Authorization: Bearer. For more information about creating tokens, see [Create Token](#).

**Parameters:**

The JSON record contains the following fields:

Name	Type	Description	Required
audience	string	An informational field that you can use to include details of the audience that uses the OIDC configuration.	Optional
description	string	A meaningful description of the OIDC configuration	Optional
issuer_url	string (URL)	OIDC issuer URL. For GitHub actions, the URL is <a href="https://token.actions.githubusercontent.com/">https://token.actions.githubusercontent.com/</a> .	Mandatory
name	string	Name of the OIDC provider.	Mandatory
provider_type	string	The provider type, such as "Github", "Azure", or "Generic OpenID Connect".	Optional
token_issuer	string	The token issuer for the case when the OIDC provider URL is not the same as the token issuer.	Optional
use_default_proxy	string	Enable support for configuring the JFrog Access microservice to operate through a forward proxy and integrate with open ID integration	Optional

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Name	Type	Description	Required
azure_app_id	string	If the application has custom signing keys as a result of using the claims-mapping feature, you must provide the Azure App ID. See here for more information. (only relevant for Azure provider type)	Optional

### Sample Usage

Create OIDC Configuration with GitHub

```
curl -X POST -H "Content-type: application/json" \
-H "Authorization: Bearer cOENUDUxv" \
https://example.jfrog.io/access/api/v1/oidc/ -d \
'{
  "name": "github-oidc",
  "issuer_url": "https://token.actions.githubusercontent.com/",
  "projectKey": "project-0738A19",
  "audience": "jfrog-github",
  "description" : "Resolving",
  "provider_type" : "GitHub",
}'
```

Create OIDC configuration with Azure

```
curl -X POST -H "Content-type: application/json" \
-H "Authorization: Bearer cOENUDUxv" \
https://example.jfrog.io/access/api/v1/oidc/ -d \
'{
  "name": "azure-oidc",
  "issuer_url": "<issuer_url, usually ends with '/'>",
  "audience": "jfrog-azure",
  "description": "Resolving",
  "provider_type": "Azure",
  "token_issuer": "<token_issuer>",
  "use_default_proxy": false
}'
```

Create a generic OIDC configuration:

```
curl -X POST -H "Content-type: application/json" \
-H "Authorization: Bearer cOENUDUxv" \
https://example.jfrog.io/access/api/v1/oidc/ -d \
'{
  "name": "integration name",
  "issuer_url": "<issuer_url, usually ends with '/'>",
  "audience": "jfrog-oidc",
  "description": "Resolving",
  "provider_type": "Generic OpenID Connect",
  "token_issuer": "<token_issuer>",
  "use_default_proxy": false
}'
```

### 4.7.10.2 | Get all OIDC Configuration

**Description:** Get details of an OIDC configuration.

**Since:** Artifactory Cloud 7.73.1, Artifactory Self Hosted 7.77.3. The **project\_key** was added in Artifactory Cloud 7.94.

**Security:** Requires a valid admin token

**Usage:** GET /access/api/v1/oidc

**Produces:** application/json

**Header parameter:** Authorization: Bearer. For more information about creating tokens, see Create Token.

## JFrog REST APIs Displayed in the header

### Parameters:

The JSON record contains the following fields:

Name	Type	Description
name	string	Name of the identity mapping
description	string	The description of the identity mapping
provider_type	string	The provider type, such as Github, Azure, or Generic OpenID Connect.
issuer_url	integer	OIDC issuer URL. For GitHub actions, the URL is <a href="https://token.actions.githubusercontent.com/">https://token.actions.githubusercontent.com/</a> .
audience	string	Informational field that you can use to include details of the audience that uses the OIDC configuration
project_key	string	If set, this Identity Mapping will be available in the scope of the given project (editable by the platform admin and project admin). If not set, this Identity Mapping will be global and only editable by the platform admin. Once set, the projectKey cannot be changed.

### Sample Usage

```
curl -X GET -H "Authorization: Bearer c0ENUDUxv" \
      https://example.jfrog.io/access/api/v1/oidc

[
  {
    "name": "ciconnect",
    "issuer_url": "https://token.actions.githubusercontent.com",
    "audience": "dev",
    "description": "ciconnect",
    "provider_type": "GitHub"
  },
  {
    "name": "gaActions",
    "issuer_url": "https://token.actions.githubusercontent.com",
    "audience": "",
    "description": "",
    "provider_type": "GitHub"
  },
  {
    "name": "templateOIDC",
    "issuer_url": "https://token.actions.githubusercontent.com",
    "audience": "",
    "description": "Github Connect",
    "provider_type": "GitHub"
  }
]
```

### 4.7.10.3 | Get OIDC Configuration

**Description:** Get details of an OIDC configuration.

**Since:** Artifactory Cloud 7.73.1, Artifactory Self Hosted 7.77.3. The `project_key` was added in Artifactory 7.94.1.

## JFrog REST APIs Displayed in the header

**Security:** Requires a valid admin token

**Usage:** GET /access/api/v1/oidc/{provider name}

**Produces:** application/json

**Header parameter:** Authorization: Bearer. For more information about creating tokens, see [Create Token](#).

### Parameters:

The JSON record contains the following fields:

Name	Type	Description	
name	string	Name of the identity mapping	
description	string	The description of the identity mapping	
provider_type	string	The provider type, such as Github, Azure, or Generic OpenID Connect.	
issuer_url	integer	OIDC issuer URL. For GitHub actions, the URL is <a href="https://token.actions.githubusercontent.com/">https://token.actions.githubusercontent.com/</a> .	
audience	string	Informational field that you can use to include details of the audience that uses the OIDC configuration	
project_key	string	If set, this Identity Mapping will be available in the scope of the given project (editable by platform admin and project admin). If not set, this Identity Mapping will be global and only editable by platform admin. Once set, the projectKey cannot be changed.	Optional

### Sample Usage

```
curl -X GET -H "Authorization: Bearer c0ENUDUxv" \
      https://example.jfrog.io/access/api/v1/oidc/ciconnect
```

```
{
  "name": "ciconnect",
  "issuer_url": "https://token.actions.githubusercontent.com",
  "audience": "dev",
  "description": "ciconnect",
  "provider_type": "GitHub"
}
```

### 4.7.10.4 | Update OIDC Configuration

**Description:** Updates an existing OIDC configuration.

**Since:** Artifactory Cloud 7.73.1, Artifactory Self Hosted 7.77.3. The **project\_key** was added in Artifactory Cloud 7.94.

**Security:** Requires a valid admin token

**Usage:** PUT /access/api/v1/oidc {JSON with OIDC Configuration}

**Produces:** application/json

## JFrog REST APIs Displayed in the header

**Header parameter:** Authorization: Bearer. For more information about creating tokens, see Create Token.

### Parameters:

The JSON record contains the following fields:

Name	Type	Description	Required
audience	string	Informational field that you can use to include details of the audience that uses the OIDC configuration.	Optional
description	string	A meaningful description of the OIDC configuration	Optional
issuer_url	string (URL)	OIDC issuer URL. For GitHub actions, the URL is <a href="https://token.actions.githubusercontent.com/">https://token.actions.githubusercontent.com/</a> .	Mandatory
name	string	Name of the OIDC provider.	Mandatory
project_key	string	If set, this Identity Mapping will be available in the scope of the given project (editable by platform admin and project admin). If not set, this Identity Mapping will be global and only editable by platform admin. Once set, the projectKey cannot be changed.	Optional
provider_type	string	The provider type, such as Github, Azure, or Generic OpenID Connect.	Optional
token_issuer	string	The token issuer for the case when the OIDC provider URL is not the same as the token issuer.	Optional

### Sample Usage

```
curl -X PUT -H "Content-type: application/json" \
-H "Authorization: Bearer cOENUDUxv" \
https://example.jfrog.io/access/api/v1/oidc/<name> -d \
'{
  "issuer_url": "https://token.actions.githubusercontent.com/",
  "projectKey": "project-0738A19"
  "audience": "jfrog-github"
  "description" : "Resolving",
  "provider_type" : "GitHub",
  "token_issuer" : "test"
}'
```

### 4.7.10.5 | Delete OIDC Configuration

**Description:** Delete an OIDC configuration.

**Since:** Artifactory Cloud 7.73.1, Artifactory Self Hosted 7.77.3

**Security:** Requires a valid admin token

**Usage:** DELETE /access/api/v1/oidc/{provider name}

**Produces:** application/json

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**Header parameter:** Authorization: Bearer. For more information about creating tokens, see Create Token.

## Sample Usage

```
curl -X DELETE -H "Authorization: Bearer cOENUDUxv" \
https://example.jfrog.io/access/api/v1/oidc/ciconnect
```

### 4.7.10.6 | Create an Identity Mapping

**Description:** Creates an identity mapping for an OIDC configuration.

**Since:** Artifactory Cloud 7.73.1, Artifactory Self Hosted 7.77.3.

**Security:** Requires a valid admin token

**Usage:** POST /access/api/v1/oidc/{provider\_name}/identity\_mappings {identity mapping configuration JSON}

**Produces:** application/json

#### Parameters:

The JSON record contains the following fields:

Name	Type	Description	Required
name	string	Name of the identity mapping	Mandatory
description	string	The description of the identity mapping	Optional
provider_name	string	Name of the OIDC configuration. The OIDC provider that will connect with the JFrog Platform. This name must match the name configured in the OIDC provider. The provider name serves as an integral part of the identification process when the provider initiates a request for an access token from the JFrog Platform.	Mandatory
priority	integer	The priority of the identity mapping. The priority should be a number. The higher priority is set for the lower number. If you do not enter a value, the identity mapping is assigned the lowest priority. We recommend that you assign the highest priority (1) to the strongest permission gate. Set the lowest priority to the weakest permission for a logical and effective access control setup.	Mandatory
claims	object	Claims information from the OIDC provider: for more information, see JSON Claims. Starting from Artifactory 7.94.1, you can enter multiple values and wildcard values in JSON claims: for more information, see Multiple Values in JSON Claims and Wildcard Values in JSON Claims.  Should contain the following: <ul style="list-style-type: none"><li>• sub</li><li>• workflow_ref</li></ul>	Mandatory
token_spec	object	Contains the following token specifications:	Mandatory

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Name	Type	Description	Required
		<ul style="list-style-type: none"> <li>• username - User name of the OIDC user. Optional.</li> <li>• scope - Scope of the token. Mandatory if you do not provide the user. <ul style="list-style-type: none"> <li>◦ You can use applied-permissions/user, applied-permissions/admin, applied-permissions/groups, or applied-permissions/roles. For more information, see <a href="#">Applied Permission Scopes</a>.</li> <li>◦ You can also use dynamic mapping to select usernames and groups according to a pattern: for more information, see <a href="#">Dynamic Mapping</a>.</li> </ul> </li> <li>• audience - Sets the JFrog services to which the mapping applies. Default value is @, which applies to all services. Optional.</li> <li>• expires_in - Token expiry time in seconds. Default value is 3600. Optional.</li> </ul>	

**Produces:** application/json

**Header parameter:** Authorization: Bearer. For more information about creating tokens, see [Create Token](#).

## Sample Request:

```
{
  "name": "github-repo-read",
  "provider_name": "github-oidc",
  "projectKey": "projectkey",
  "claims": {
    "sub": "repo:johnf/access-oidc-poc:ref:refs/heads/main",
    "workflow_ref": "johnf/access-oidc-poc/.github/workflows/job.yaml@refs/heads/main"
  },
  "token_spec": {
    "username": "johnf",
    "scope": "applied-permissions/user",
    "audience": ["jfrt@service_id"],
    "expires_in": 3600
    "username_pattern": "{{actor}}"
  }
}
```

## Sample Usage

Example with a user:

```
curl -X POST -H "Content-type: application/json" \
-H "Authorization: Bearer cOENUDUxv" \
https://example.jfrog.io/access/api/v1/oidc/{provider_name}/identity_mappings -d \
{
  "name": "github-repo-read",
  "provider_name": "github-oidc",
  "claims": {
    "sub": "repo:johnf/access-oidc-poc:ref:refs/heads/main",
    "workflow_ref": "johnf/access-oidc-poc/.github/workflows/job.yaml@refs/heads/main"
  },
  "token_spec": {
    "username": "johnf",
    "scope": "applied-permissions/user",
    "audience": ["jfrt@service_id"],
    "expires_in": 3600
  }
}
```

Example with a group:

```
curl -X POST -H "Content-type: application/json" \
-H "Authorization: Bearer cOENUDUxv" \
```

## JFrog REST APIs Displayed in the header

```
https://example.jfrog.io/access/api/v1/oidc/{provider_name}/identity_mappings -d \
{
  "name": "github-repo-read",
  "provider_name": "github-oidc",
  "claims": {
    "sub": "repo:johnf/access-oidc-poc:ref:refs/heads/main",
    "workflow_ref": "johnf/access-oidc-poc/.github/workflows/job.yaml@refs/heads/main"
  },
  "token_spec": {
    "scope": "applied-permissions/groups:readers",
    "audience": ["jfrt@service_id"],
    "expires_in": 3600
  }
}
```

Example with dynamic user mapping:

```
curl -X POST -H "Content-type: application/json" \
-H "Authorization: Bearer cmd" \
https://example.jfrog.io/access/api/v1/oidc/oidc-sample/identity_mappings -d \
{
  "name": "github-repo-read",
  "description": "mapping example",
  "claims": {
    "workflow": "example-workflow",
    "sub": "repo:octo-org/octo-repo:environment:prod"
  },
  "token_spec": {
    "scope": "applied-permissions/user",
    "audience": "audience",
    "expires_in": 100,
    "username_pattern": "{{actor}}"
  },
  "priority": 0
}
```

Example with dynamic group mapping:

```
curl -X POST -H "Content-type: application/json" \
-H "Authorization: Bearer cmd" \
https://example.jfrog.io/access/api/v1/oidc/oidc-sample/identity_mappings -d \
{
  "name": "github-repo-read",
  "description": "mapping example",
  "claims": {
    "workflow": "example-workflow",
    "sub": "repo:octo-org/octo-repo:environment:prod"
  },
  "token_spec": {
    "username": "username",
    "scope": "applied-permissions/user",
    "audience": "audience",
    "expires_in": 100,
    "groups_pattern": "{{group}}"
  },
  "priority": 0
}
```

Example with a multiple values claim:

```
curl -X POST -H "Content-type: application/json" \
-H "Authorization: Bearer cmd" \
https://example.jfrog.io/access/api/v1/oidc/oidc-sample/identity_mappings -d \
{
  "name": "github-multi-claims",
  "description": "mapping example",
  "claims": {
    "workflow": "example-workflow",
    "sub": "repo:octo-org/octo-repo:environment:prod",
    "repository": ["jfrog/jfrog-cli", "jfrog/artifactory-client-java", "jfrog/setup-jfrog-cli", "artifactory/**"]
  },
}
```

# JFrog REST APIs Displayed in the header

```
"token_spec": {  
    "scope": "applied-permissions/user",  
    "audience": "audience",  
    "expires_in": 100,  
    "username_pattern": "{{actor}}"  
},  
"priority": 0  
}
```

Example with a wildcard claim:

```
curl -X POST -H "Content-type: application/json" \  
-H "Authorization: Bearer cmd" \  
https://example.jfrog.io/access/api/v1/oidc/oidc-sample/identity_mappings -d \  
{  
    "name": "github-wild-card",  
    "description": "mapping example",  
    "claims": {  
        "workflow": "example-workflow",  
        "sub": "repo:octo-org/octo-repo:environment:prod",  
        "repository": "jfrog/*"  
    },  
    "token_spec": {  
        "scope": "applied-permissions/user",  
        "audience": "audience",  
        "expires_in": 100,  
        "usernamePattern": "{{actor}}"  
    },  
    "priority": 0  
}
```

## 4.7.10.7 | Get all Identity Mappings by Provider Name

**Description:** Get all identity mappings for an OIDC configuration.

**Since:** Artifactory Cloud 7.73.1, Artifactory Self Hosted 7.77.3. Added **project\_key** in Artifactory 7.94.1.

**Security:** Requires a valid admin token

**Usage:** GET /access/api/v1/oidc/{provider\_name}/identity\_mappings/

**Produces:** application/json

**Parameters:**

The JSON record contains the following fields:

Name	Type	Description	Required
name	string	Name of the identity mapping	Mandatory
description	string	The description of the identity mapping	Optional
provider_name	string	Name of the OIDC configuration. The OIDC provider that will connect with the JFrog Platform. This name must match the name configured in the OIDC provider. The provider name serves as an integral part of the identification process when the provider initiates a request for an access token from the JFrog Platform.	Mandatory
priority	integer	The priority of the identity mapping. The priority should be a number. The higher priority is set for the lower number. If you do not enter a value, the identity mapping is assigned	Mandatory

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Name	Type	Description	Required
		the lowest priority. We recommend that you assign the highest priority (1) to the strongest permission gate. Set the lowest priority to the weakest permission for a logical and effective access control setup.	
claims	object	<p>Claims information from the OIDC provider. Should contain the following:</p> <ul style="list-style-type: none"> <li>• sub</li> <li>• workflow_ref</li> </ul>	Mandatory
token_spec	object	<p>Contains the following token specifications:</p> <ul style="list-style-type: none"> <li>• username - User name of the OIDC user. Optional.</li> <li>• scope - Scope of the token. You can use applied-permissions/user, applied-permissions/admin, or applied-permissions/group. You can specify the group name after the group. For example, applied-permissions/group:readers. Mandatory if you do not provide the user.</li> <li>• audience - Sets the JFrog services to which the mapping applies. Default value is @, which applies to all services. Optional.</li> <li>• expires_in - Token expiry time in seconds. Default value is 3600. Optional.</li> </ul>	Mandatory
project_key	string	If set, this Identity Mapping will be available in the scope of the given project (editable by platform admin and project admin). If not set, this Identity Mapping will be global and only editable by platform admin. Once set, the projectKey cannot be changed.	Optional

**Header parameter:** Authorization: Bearer. For more information about creating tokens, see [Create Token](#).

### Sample Usage

```
curl -X GET 'http://sample.jfrog.io/access/api/v1/oidc/ciconnect/identity_mappings/' \
-H 'Accept: application/json' \
-H 'Authorization: Bearer cmVmddmI0'

[
  {
    "name": "idmapciconnect",
    "description": "",
    "claims": {
      "name": "github-repo-read",
      "claims": {
        "sub": "repo:mosheya/access-oidc-poc:ref:refs/heads/main",
        "workflow_ref": "mosheya/access-oidc-poc/.github/workflows/job.yaml@refs/heads/main"
      },
      "provider_name": "github-oidc",
      "token_spec": {
        "username": "moshey",
        "scope": "applied-permissions/user",
        "audience": [
          "jfrt@service_id"
        ],
        "expires_in": 3600
      }
    },
    "token_spec": {
      "username": "admconnect",
      "scope": "applied-permissions/admin",
      "audience": "*@*",
    }
  }
]
```

# JFrog REST APIs Displayed in the header

```
        "expires_in": 60
    },
    "priority": 1
},
{
    "name": "zmap",
    "description": "",
    "claims": {
        "name": "github-repo-read",
        "claims": {
            "sub": "repo:humpty/access-oidc-poc:ref:refs/heads/main",
            "workflow_ref": "humpty/access-oidc-poc/.github/workflows/job.yaml@refs/heads/main"
        },
        "provider_name": "github-oidc",
        "token_spec": {
            "username": "humpty",
            "scope": "applied-permissions/user",
            "audience": [
                "jfrt@service_id"
            ],
            "expires_in": 3600
        }
    },
    "token_spec": {
        "username": "humpty",
        "scope": "applied-permissions/admin",
        "audience": "*@*",
        "expires_in": 60
    },
    "priority": 2
}
]
```

## 4.7.10.8 | Get Identity Mappings by Mapping Name

**Description:** Get an identity mapping for an OIDC configuration.

**Since:** Artifactory Cloud 7.73.1, Artifactory Self Hosted 7.77.3. The `project_key` was added in Artifactory 7.94.1.

**Security:** Requires a valid admin token

**Usage:** GET /access/api/v1/oidc/{provider\_name}/identity\_mappings/{identity mapping name}

**Produces:** application/json

**Header parameter:** Authorization: Bearer. For more information about creating tokens, see [Create Token](#).

**Parameters:**

Name	Type	Description	Required
name	string	Name of the identity mapping	Mandatory
description	string	The description of the identity mapping	Optional
provider_name	string	Name of the OIDC configuration. The OIDC provider that will connect with the JFrog Platform. This name must match the name configured in the OIDC provider. The provider name serves as an integral part of the identification process when the provider initiates a request for an access token from the JFrog Platform.	Mandatory.

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Name	Type	Description	Required
priority	integer	The priority of the identity mapping. The priority should be a number. The higher priority is set for the lower number. If you do not enter a value, the identity mapping is assigned the lowest priority. We recommend that you assign the highest priority (1) to the strongest permission gate. Set the lowest priority to the weakest permission for a logical and effective access control setup.	Mandatory
claims	object	Claims information from the OIDC provider. Should contain the following: <ul style="list-style-type: none"><li>• sub</li><li>• workflow_ref</li></ul>	Mandatory
token_spec	object	Contains the following token specifications: <ul style="list-style-type: none"><li>• username - User name of the OIDC user. Optional.</li><li>• scope - Scope of the token. You can use applied-permissions/user, applied-permissions/admin, or applied-permissions/group. You can specify the group name after the group. For example, applied-permissions/group:readers. Mandatory if you do not provide the user.</li><li>• audience - Sets the JFrog services to which the mapping applies. Default value is @, which applies to all services. Optional.</li><li>• expires_in - Token expiry time in seconds. Default value is 3600. Optional.</li></ul>	Mandatory
project_key	string	If set, this Identity Mapping will be available in the scope of the given project (editable by platform admin and project admin). If not set, this Identity Mapping will be global and only editable by platform admin. Once set, the projectKey cannot be changed.	Optional

### Sample Usage

```
curl -X GET 'http://sample.jfrog.io/access/api/v1/oidc/ciconnect/identity_mappings/zmap' \
-H 'Accept: application/json' \
-H 'Authorization: Bearer cmVmdmI0'
```

```
{
  "name": "zmap",
  "description": "",
  "claims": {
    "name": "github-repo-read",
    "claims": {
      "sub": "repo:humpty/access-oidc-poc:ref:refs/heads/main",
      "workflow_ref": "humpty/access-oidc-poc/.github/workflows/job.yaml@refs/heads/main"
    },
    "provider_name": "github-oidc",
    "token_spec": {
      "username": "humpty",
      "scope": "applied-permissions/user",
      "audience": [
        "jfrt@service_id"
      ],
      "expires_in": 3600
    }
  },
  "token_spec": {
    "username": "humpty",
    "scope": "applied-permissions/admin",
    "audience": "*@"
  }
}
```

## JFrog REST APIs Displayed in the header

```
        "expires_in": 60
    },
    "priority": 2
}
```

### 4.7.10.9 | Update OIDC Identity Mapping

**Description:** Updates an existing OIDC identity mapping.

**Since:** Artifactory Cloud 7.73.1, Artifactory Self Hosted 7.77.3. The `project_key` was added in Artifactory Cloud 7.94.

**Security:** Requires a valid admin token

**Usage:** `PUT /access/api/v1/oidc` {JSON with OIDC Configuration}

**Produces:** application/json

**Header parameter:** Authorization: Bearer. For more information about creating tokens, see [Create Token](#).

**Parameters:**

The JSON record contains the following fields:

Name	Type	Description	Required
name	string	Name of the identity provider.	Mandatory
description	string	A meaningful description of the identity mapping	Optional
provider_name	string	Name of the OIDC configuration. The OIDC provider that will connect with the JFrog Platform. This name must match the name configured in the OIDC provider. The provider name serves as an integral part of the identification process when the provider initiates a request for an access token from the JFrog Platform.	Mandatory
priority	integer	The priority of the identity mapping. The priority should be a number. The higher priority is set for the lower number. If you do not enter a value, the identity mapping is assigned the lowest priority. We recommend that you assign the highest priority (1) to the strongest permission gate. Set the lowest priority to the weakest permission for a logical and effective access control setup.	Mandatory
claims	object	Claims information from the OIDC provider. Should contain the following: <ul style="list-style-type: none"><li>• <code>sub</code></li><li>• <code>workflow_ref</code></li></ul>	Mandatory
token_spec	string	Contains the following token specifications:	Mandatory

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Name	Type	Description	Required
project_key	string	<ul style="list-style-type: none"> <li>• username - User name of the OIDC user. Optional.</li> <li>• scope - Scope of the token. You can use applied-permissions/user, applied-permissions/admin, or applied-permissions/group,. You can specify the group name after the group. For example, applied-permissions/group:readers. Mandatory if you do not provide the user.</li> <li>• audience - Sets the JFrog services to which the mapping applies. Default value is @, which applies to all services. Optional.</li> <li>• expires_in - Token expiry time in seconds. Default value is 3600. Optional.</li> </ul> <p>If set, this Identity Mapping will be available in the scope of the given project (editable by platform admin and project admin). If not set, this Identity Mapping will be global and only editable by platform admin. Once set, the projectKey cannot be changed.</p>	Optional

### Sample Usage with a User

```
curl -X PUT -H "Content-type: application/json" \
-H "Authorization: Bearer cOENUDuXv" \
https://example.jfrog.io/access/api/v1/oidc/{provider_name}/identity_mappings -d \
{
  "name": "github-repo-read",
  "provider_name": "github-oidc",
  "claims": {
    "sub": "repo:mosheya/access-oidc-poc:ref:refs/heads/main",
    "workflow_ref": "mosheya/access-oidc-poc/.github/workflows/job.yaml@refs/heads/main"
  },
  "token_spec": {
    "username": "moshey",
    "scope": "applied-permissions/user"
    "audience": ["jfrt@service_id"],
    "expires_in": 3600
  }
}
```

### Sample Usage with a Group

```
curl -X PUT -H "Content-type: application/json" \
-H "Authorization: Bearer cOENUDuXv" \
https://example.jfrog.io/access/api/v1/oidc/{provider_name}/identity_mappings -d \
{
  "name": "github-repo-read",
  "provider_name": "github-oidc",
  "claims": {
    "sub": "repo:mosheya/access-oidc-poc:ref:refs/heads/main",
    "workflow_ref": "mosheya/access-oidc-poc/.github/workflows/job.yaml@refs/heads/main"
  },
  "token_spec": {
    "scope": "applied-permissions/group:readers"
    "audience": ["jfrt@service_id"],
    "expires_in": 3600
  }
}
```

### 4.7.10.10 | Delete Identity Mapping

**Description:** Delete an identity mapping of an OIDC configuration.

**Since:** Artifactory Cloud 7.73.1, Artifactory Self Hosted 7.77.3

# JFrog REST APIs Displayed in the header

**Security:** Requires a valid admin token

**Usage:** DELETE /access/api/v1/oidc/{provider\_name}/identity\_mappings/{mapping\_name}

**Produces:** application/json

**Header parameter:** Authorization: Bearer. For more information about creating tokens, see [Create Token](#).

## Sample Usage

```
curl -X DELETE -H "Authorization: Bearer cOENUDUxv" \
https://example.jfrog.io/access/api/v1/oidc/ciconnect/identity_mappings/zmap
```

## 4.7.10.11 | OIDC Token Exchange

**Description:** Exposes the token endpoint to retrieve a temporary access token. The scope of the token is determined using identity mappings.

**Since:** Artifactory Cloud 7.73.1, Artifactory Self Hosted 7.77.3

**Usage:** POST /access/api/v1/oidc/token {JSON with token information}

**Produces:** application/json

**Header parameter:** Authorization: Bearer. For more information about creating tokens, see [Create Token](#).

### Parameters:

The JSON record contains the following fields:

Name	Type	Description	
provider_name	string	Name of the provider	
description	string	The description of the identity mapping	
provider_type	string	The provider type, such as Github, Azure, or Generic OpenID Connect.	
issuer_url	integer	OIDC issuer URL. For GitHub actions, the URL is <a href="https://token.actions.githubusercontent.com/">https://token.actions.githubusercontent.com/</a> .	
audience	string	Informational field that you can use to include details of the audience that uses the OIDC configuration	
project_key	string	If set, this Identity Mapping will be available in the scope of the given project (editable by the platform admin and project admin). If not set, this Identity Mapping will be global and only editable by platform admin. Once set, the projectKey cannot be changed.	Optional

## Sample Usage

```
curl -X POST -H "Content-type: application/json" \
-H "Authorization: Bearer cOENUDUxv" \
https://example.jfrog.io/access/api/v1/oidc/token -d \
'{"grant_type": "urn:ietf:params:oauth:grant-type:token-exchange", \
"subject_token_type": "urn:ietf:params:oauth:token-type:id_token", \
"subject_token": <ID_TOKEN>, \
```

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```
"provider_name": "github-oidc"  
"identity_mapping_name": <mapping_name> //optional  
"include_reference_token": true/false //default false  
"project_key": "jfacc"
```

### 4.7.11 | AWS IAM Role APIs

JFrog Access IAM role APIs manage AWS IAM roles for JFrog platform users. You can use the AWS IAM roles for passwordless access to Amazon EKS. For more information, see Passwordless Access for Amazon EKS.

#### 4.7.11.1 | PUT AWS IAM Role

**Description:** Assigns an AWS IAM role to a user.

**Since:** Artifactory 7.x.x

**Security:** Requires a valid admin token

**Usage:** PUT api/v1/aws/iam\_role/ {JSON with JFrog user name and the AWS IAM role Configuration}

The request must have the following information.

- **username:** The JFrog Platform user name.
- **iam\_role:** The AWS IAM role. Must follow the regex, "`^arn:aws:iam::\d{12}:role/[\\w+=,.@:-]+$`".

**Produces:** text/plain

#### Sample Usage

```
curl -X PUT -H "Content-type: application/json" \  
      -H "Authorization: Bearer cOENUDUxv" \  
      https://example.jfrog.io/access/api/v1/aws/iam_role -d \  
'{"username": "jfrog-aws", "iam_role": "arn:aws:iam::0000000000:role/example"}'
```

#### 4.7.11.2 | GET AWS IAM Role

**Description:** Get information of the AWS IAM role assigned to a user.

**Since:** Artifactory 7.x.x

**Security:** Requires a valid admin token

**Usage:** GET api/v1/aws/iam\_role/{username}

**Produces:** text/plain

#### Sample Usage

```
curl -XGET -H "Authorization: Bearer cOENUDUxv" \  
      "https://example.jfrog.io/access/api/v1/aws/iam_role/jfrog-aws"  
  
{  
  "username": jfrog-aws,  
  "iam_role": arn:aws:iam::0000000000:role/example  
}
```

#### 4.7.11.3 | DELETE IAM ROLE

**Description:** Deletes AWS IAM role from a user.

**Since:** Artifactory 7.x.x

**Security:** Requires a valid admin token

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**Usage:** DELETE api/v1/aws/iam\_role/{username}

**Produces:** text/plain

## Sample Usage

```
curl -XDELETE -H "Authorization: Bearer cOENUDUxv" \
  "https://example.jfrog.io/access/api/v1/aws/iam_role/jfrog-aws"
```

## 4.8 | SUPPORT

### Base URL

```
<JFrog Base URL>/api/system/support/
#For example:
http://ARTIFACTORY_SERVER_HOSTNAME:8082/artifactory/api/
```

### 4.8.1 | Create Support Bundle

**Description:** Create a new support bundle.

**Since:** 4.3.0

**Security:** Requires an admin user

**Notes:** All bundle items are optional.

**Usage:** POST /api/system/support/bundle/

**Consumes:** application/json

**Produces:** application/json

#### Sample Usage:

```
curl -X POST -u user:password -H "Content-Type: application/json"
"http://ARTIFACTORY_SERVER_HOSTNAME:8082/artifactory/api/system/support/bundle/" \
--data '{
  "name": "supportBundle1",
  "description": "Test support bundle",
  "parameters": {
    "configuration": true,
    "system": true,
    "collectSlowQueriesFromDatabase": true,
    "logs": {
      "include": true,
      "start_date": "2024-08-01",
      "end_date": "2024-08-01"
    },
    "thread_dump": {
      "count": 2,
      "interval": 1000
    }
  }
}'
```

The request contains the following parameters:

Field	Type	Required	Default Value	Description
name	String	no	N/A	Support bundle name
description	String	no	N/A	Support bundle description

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Field	Type	Required	Default Value	Description
parameters	Object	no		Support bundle parameters
parameters.configuration	Boolean	no	true	Collect configuration files
parameters.system	Boolean	no	true	Information about your system including storage, system properties, CPU, and JVM information
parameters.collectSlowQueriesFromDatabase	Boolean	no	false	<p>When set to true, collects information about the 10 slowest database queries and adds them to the support bundle in a file called <b>database-slow-queries.json</b>.</p> <p>If no slow queries are found, the following message appears inside the JSON file:</p> <p>"Response": "There are no slow running queries at this moment"</p> <p>Supported databases: PostgreSQL, MySQL, MariaDB, MS SQL</p>
parameters.logs	Object	no		Collect all system logs. If this field is not specified, the support bundle will collect logs from the day before today until today.
parameters.logs.include	Boolean	no	true	Collect system logs.
parameters.logs.start_date	String	no	Day before end_date	Start date from which to fetch the logs. Required format: YYYY-MM-DD
parameters.logs.end_date	String	no	Today	End date until which to fetch the logs. Required format: YYYY-MM-DD
thread_dump	Object	no		Create a thread dump for all running threads
thread_dump.count	Integer	no	1	Number of thread dumps to collect

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Field	Type	Required	Default Value	Description
thread_dump.interval	Integer	no	0	The interval between times of thread dump collection in milliseconds

### Sample Response:

```
{
  "id": "20240808-185648-592",
  "artifactory": {
    "service_id": "jfrt@...",
    "bundle_url": "http://ARTIFACTORY_SERVER_HOSTNAME:8082/artifactory/jfrog-support-bundle/20240808-185648-592/jfrt/jfrt@01j4ph0jnq22ha0733aft61ph1"
  }
}
```

### Status Codes:

Code	Description
200	Support bundle created successfully

## 4.8.2 | List Support Bundles

**Description:** Lists previously created bundles currently stored in the system.

**Since:** 4.3.0 (updated in 6.8.0)

**Security:** Requires a privileged user (Admin only)

**Usage:** GET /api/system/support/bundles/

**Produces:** application/json

### Sample Usage:

GET /api/system/support/bundles

```
{
  "bundles" : [ {
    "id" : "B1-1551008826805",
    "name" : "B1",
    "description" : "abc",
    "created" : "2019-02-24T13:47:06+02:00",
    "status" : "success"
  }, {
    "id" : "B2-1551008834948",
    "name" : "B2",
    "description" : null,
    "created" : "2019-02-24T13:47:14+02:00",
    "status" : "success"
  }],
  "count" : 2
}
```

#### 4.8.3 | Get Support Bundle Metadata

**Description:** Downloads the metadata for a previously created bundle currently stored in the system.

**Since:** 6.8.0

**Security:** Requires a privileged user (Admin only)

**Usage:** GET /api/system/support/bundle/{bundle-id}

**Produces:** application/json

**Sample Usage:**

```
GET /api/system/support/bundle/B1-1551008826805
```

```
{
  "name" : "B1",
  "description" : "abc",
  "id" : "B1-1551008826805",
  "artifactory" : {
    "service_id" : "jfrt@01d482vam7aj0v1w9yjfpe1jnh",
    "bundle_url" : "http://localhost:8081/artifactory/jfrog-support-bundle/B1-1551008826805/jfrt/jfrt@01d482vam7aj0v1w9yjfpe1jnh"
  },
  "parameters" : {
    "configuration" : true,
    "system" : true,
    "logs" : {
      "include" : true,
      "start_date" : "2019-02-24",
      "end_date" : "2019-02-24"
    },
    "thread_dump" : {
      "count" : 1,
      "interval" : 0
    }
  },
  "created" : "2019-02-24T13:47:06+02:00",
  "status" : "success"
}
```

#### 4.8.4 | Delete Support Bundle

**Description:** Deletes a previously created bundle from the system.

**Since:** 4.3.0 (updated in 6.8.0)

**Security:** Requires a privileged user (Admin only)

**Usage:** DELETE /api/system/support/bundle/{bundle-id}

**Produces:** application/json

**Sample Usage:**

```
DELETE /api/system/support/bundle/B1-1551008826805
```

#### 4.8.5 | Get Support Bundle

**Description:** Downloads a previously created bundle currently stored in the system.

**Since:** 4.3.0 (updated in 6.8.0)

**Security:** Requires a privileged user (Admin only)

**Usage:** GET /api/system/support/bundle/{bundle-id}/archive

**Produces:** application/json

**Sample Usage:**

```
GET /api/system/support/bundle/B1-1551008826805/archive
```

## 4.9 | ENVIRONMENTS

### 4.9.1 | Create Global Environment

**Description:** Creates a new global environment.

**Note**

By default, Artifactory supports up to 10 global environments. To change this default value, modify the Access configuration YAML, as described in Supported Access Configurations. The maximum recommended number of environments is 30.

**Since:** 7.53.1

**Security:** Requires a user assigned the Administer the Platform role.

**Usage:** POST /access/api/v1/environments

**Authentication:** Requires token-based authentication.

**Sample Request:**

```
{  
  "name": "<string>"  
}
```

**Note**

The maximum length of an environment name is 32 characters.

**Sample Response:**

```
{  
  "name": "<string>"  
}
```

**Status Codes:**

Code	Description
200	Created
400	Bad Request
401	Unauthorized
403	Forbidden
409	Conflict

## Note

To create a project environment, see [Create Project Environment](#).

### 4.9.2 | Rename a Global Environment

**Description:** Renames an existing global environment.

**Since:** 7.53.1

**Security:** Requires a user assigned the Administer the Platform role.

**Usage:** POST /access/api/v1/environments/{environment\_name}/rename

**Authentication:** Requires token-based authentication.

**Sample Request:**

```
{  
  "new_name": "<string>"  
}
```

## Note

The maximum length of an environment name is 32 characters.

**Sample Response (successful):**

```
{  
  "new_name": "<string>"  
}
```

**Sample Response (error):**

```
{  
  "errors": [  
    {  
      "code": "<string>",  
      "message": "<string>",  
      "detail": "<string>"  
    },  
    {  
      "code": "<string>",  
      "message": "<string>",  
      "detail": "<string>"  
    }  
  ]  
}
```

**Status Codes:**

Code	Description
200	Renamed Successfully
400	Bad Request
401	Unauthorized

Code	Description
403	Forbidden
409	Conflict

#### 4.9.3 | Get Global Environments

**Description:** Returns a list of existing global environments.

**Since:** 7.53.1

**Security:** Requires a user assigned the Administer the Platform role.

**Usage:** GET /access/api/v1/environments

**Authentication:** Requires token-based authentication.

**Sample Response:**

```
[  
  {  
    "name": "<string>"  
  },  
  {  
    "name": "<string>"  
  }  
]
```

**Status Codes:**

Code	Description
200	Fetched
401	Unauthorized
403	Forbidden

#### 4.9.4 | Delete Global Environment

**Description:** Deletes a global environment.

**Since:** 7.53.1

**Security:** Requires a user assigned the Administer the Platform role.

**Usage:** DELETE /access/api/v1/environments/{environment\_name}

**Authentication:** Requires token-based authentication.

**Status Codes:**

Code	Description
204	Deleted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found

#### 4.9.5 | Create Project Environment

**Description:** Creates a new environment for the specified project.

##### Note

By default, Artifactory supports up to 10 project environments. To change this default value, modify the Access configuration YAML, as described in Supported Access Configurations. The maximum recommended number of environments is 30.

**Since:** 7.53.1

**Security:** Requires a Project Admin or a user assigned the Administer the Platform role.

**Usage:** POST /access/api/v1/projects/{project\_key}/environments

**Authentication:** Requires token-based authentication.

##### Sample Request:

```
{  
  "name": "<string>"  
}
```

##### Examples of Request

```
{  
  "name": "<PROJECT_KEY>-<ENVIRONMENT_NAME>"  
}  
  
{  
  "name": "<PROJECT_KEY><ENVIRONMENT_NAME>"  
}
```

##### Note

The maximum length of an environment name is 32 characters.

##### Sample Response:

```
{  
  "name": "<string>"  
}
```

##### Status Codes:

Code	Description
200	Created
400	Bad Request
401	Unauthorized
403	Forbidden
409	Conflict

#### Note

To create a global environment, see [Create Global Environment](#).

#### 4.9.6 | Rename a Project Environment

**Description:** Renames an existing environment in the specified project.

**Since:** 7.53.1

**Security:** Requires a Project Admin or a user assigned the Administer the Platform role.

**Usage:** POST \${baseUrl}/v1/projects/{project\_key}/environments/{environment\_name}/rename

#### Sample Request:

```
{  
    "new_name": "<string>"  
}
```

#### Note

The maximum length of an environment name is 32 characters.

#### Sample Response (successful):

```
{  
    "new_name": "<string>"  
}
```

#### Sample Response (error):

```
{  
    "errors": [  
        {  
            "code": "<string>",  
            "message": "<string>",  
            "detail": "<string>"  
        },  
        {  
            "code": "<string>",  
            "message": "<string>",  
            "detail": "<string>"  
        }  
    ]  
}
```

**Status Codes:**

Code	Description
200	Renamed Successfully
400	Bad Request
401	Unauthorized
403	Forbidden
409	Conflict

#### 4.9.7 | Get Project Environments

**Description:** Returns a list of existing environments for the specified project.

**Since:** 7.53.1

**Security:** Requires a Project Admin or a user assigned the Administer the Platform role.

**Usage:** GET /access/api/v1/projects/{project\_key}/environments

**Authentication:** Requires token-based authentication.

**Sample Response:**

```
[  
  {  
    "name": "<string>"  
  },  
  {  
    "name": "<string>"  
  }  
]
```

**Status Codes:**

Code	Description
200	Fetched
401	Unauthorized
403	Forbidden

#### 4.9.8 | Delete Project Environment

**Description:** Deletes an environment from the specified project.

**Since:** 7.53.1

**Security:** Requires a Project Admin or a user assigned the Administer the Platform role.

**Usage:** DELETE /access/api/v1/projects/{project\_key}/environments/{environment\_name}

**Authentication:** Requires token-based authentication.

**Status Codes:**

Code	Description
204	Deleted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found

### 4.10 | JFConnect

JFConnect REST APIs require authentication using [Access Tokens](#) as a bearer token in the authorization header (Authorization: Bearer <Token>).

For example:

```
curl -H "Authorization: Bearer <Token>" http://ARTIFACTORY_SERVER_HOSTNAME:8082/jfconnect/api/v1/
```

#### Base URL

The JFConnect REST API URL is constructed as follows:

<JFrog Base URL>/jfconnect/api/v1

#### 4.10.1 | JFConnect Health Ping

**Description:** Get a simple status response about the state of the JFConnect microservice.

**Since:** Artifactory 7.23.3

**Security:** Uses access token as a bearer token in an authorization header for authentication.

**Usage:** GET /api/v1/system/ping

**Produces:** text/plain

#### Sample Usage

```
curl -H "Authorization: Bearer <Token>" 'https://myserver.com/jfconnect/api/v1/system/ping'  
Ok
```

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### 4.10.2 | JFConnect Liveness

**Description:** Tests the liveness of the JFConnect microservice.

**Since:** Artifactory 7.23.3

**Security:** Uses access token as a bearer token in an authorization header for authentication.

**Usage:** GET /api/v1/system/liveness

**Produces:** text/plain

#### Sample Usage

```
curl -H "Authorization: Bearer <Token>" -X GET 'https://myserver.com/jfconnect/api/v1/system/liveness'  
Ok
```

### 4.10.3 | JFConnect Readiness

**Description:** Tests the readiness of the JFConnect microservice.

**Since:** Artifactory 7.23.3

**Security:** Uses access token as a bearer token in an authorization header for authentication.

**Usage:** GET /api/v1/system/readiness

**Produces:** text/plain

#### Sample Usage

```
curl -H "Authorization: Bearer <Token>" -X 'https://myserver.com/jfconnect/api/v1/system/readiness'  
Ok
```

### 4.10.4 | JFConnect GET Service ID

**Description:** Gets the service ID of the services in the JPD through the JFConnect microservice.

**Since:** Artifactory 7.23.3

**Security:** Uses access token as a bearer token in an authorization header for authentication.

**Usage:** GET /api/v1/system/service\_id

**Produces:** text/plain

#### Sample Usage

```
curl -H "Authorization: Bearer <Token>" -X 'https://myserver.com/jfconnect/api/v1/system/service_id'
```

### 4.10.5 | JFConnect GET JPD ID

**Description:** Gets the ID of the JPD through the JFConnect microservice.

**Since:** Artifactory 7.29.7

**Security:** Requires a valid user, and uses access token as a bearer token in an authorization header for authentication.

**Usage:** GET /api/v1/system/jpd\_id

**Produces:** text/plain

#### Sample Usage

```
curl -H "Authorization: Bearer <Token>" 'https://myserver.com/jfconnect/api/v1/system/jpd_id'
```

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### 4.10.6 | JFConnect Start Register for Air-gapped JPD

**Description:** Starts the offline registration of the air-gapped JPD for entitlements through the JFConnect microservice.

**Since:** Artifactory 7.68.7

**Security:** Uses access token as a bearer token in an authorization header for authentication.

**Usage:** GET JFConnect/api/v1/offline/start\_register

**Produces:** text/plain

#### Sample Usage

```
curl -H "Authorization: Bearer <Token>" -X GET 'https://myserver.com/jfconnect/api/v1/offline/start_register'
```

### 4.10.7 | Post Offline Request Token to JFrog Entitlements Service

**Description:** Posts the offline request token from the air-gapped JPD to the JFrog Entitlements Service and returns the entitlements in JSON format. You must run this API from a machine that has connectivity to the Internet.

**Since:** Artifactory 7.68.7

**Security:** Requires a valid offline request token.

**Usage:** POST /api/api/v1/offline\_register body = {"offline\_response\_token": <token>}

#### Note

The offline\_response\_token needed for this API is returned as a response header.

**Produces:** text/plain

#### Sample Usage

```
curl -v -XPOST "https://jes.jfrog.io/api/v1/offline_register" \
-d '{"offline_response_token": "<the token>"}' \
-H "Content-type: application/json" > entitlements.json
```

#### Warning

If you save the response manually instead of directing the response body to entitlements.jsonfile, ensure that there are no spaces or any modifications. Any change in the response fails checksum validation when you apply entitlements.

### 4.10.8 | JFConnect Apply Entitlements to an Air-Gapped JPD

**Description:** Posts the entitlements to the air-gapped JPD through the JFConnect microservice.

**Since:** Artifactory 7.68.7

**Security:** Uses access token as a bearer token in an authorization header for authentication.

**Usage:** POST JFConnect/api/v1/offline/register body = {"offline\_request\_token": <token>, entitlements=<contents of entitlements.json>}

**Produces:** text/plain

#### Sample Usage

```
curl -X POST 'http://myserver:8082/jfconnect/api/v1/offline/register' \
-H 'Authorization: Bearer <Token>' \
--form 'entitlements=@entitlements.json;type=application/json' \
--form 'offline_response_token=<offline_response_token>'
```

## 4.11 | WEBHOOKS

### 4.11.1 | Base URL

```
<JFrog Base URL>/event/api/v1  
#For example:  
http://ARTIFACTORY_SERVER_HOSTNAME:8082/event/api/v1
```

### 4.11.2 | Get the List of all Webhook Subscriptions

**Description:** Returns all the configured Webhook subscriptions.

**Security:** Requires a valid admin user.

**Usage:** GET event/api/v1/subscriptions

**Produces:** application/json

**Sample Output:**

```
[  
  {  
    "key": "QaAudit",  
    "description": "Triggers QA audit when a new artifact is created",  
    "enabled": true,  
    "event_filter": {  
      "domain": "artifact",  
      "event_types": [  
        "deployed"  
      ],  
      "criteria": {  
        "anyLocal": true,  
        "anyRemote": false,  
        "includePatterns": [],  
        "excludePatterns": [],  
        "repoKeys": []  
      }  
    },  
    "handlers": [  
      {  
        "handler_type": "webhook",  
        "url": "https://qa.my-company.test/",  
        "secret": "tell no one",  
        "proxy": "mainProxy",  
        "custom_http_headers": [  
          {  
            "name": "X-MyCompany-Header",  
            "value": "whatever"  
          }  
        ]  
      }  
    ]  
  },  
  {  
    "key": "SecurityAudit",  
    "description": "Triggers Security audit when a new artifact is deployed",  
    "enabled": true,  
    "event_filter": {  
      "domain": "artifact",  
      "event_types": [  
        "deployed"  
      ],  
      "criteria": {  
        "anyLocal": true,  
        "anyRemote": false,  
        "includePatterns": [],  
        "excludePatterns": [],  
        "repoKeys": []  
      }  
    }  
  }]
```

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```
    }
},
"handlers": [
{
  "handler_type": "webhook",
  "url": "https://security.my-company.test/",
  "secret": "hush hush"
}
]
}
```

Parameter	Description
url	Specifies the URL that the Webhook invokes. This will be the URL that Artifactory will send an HTTP POST request to.
secret	Defines a secret authentication token that will be sent to the configured URL.
proxy	Indicates whether to send the Webhook through a proxy. You can select a proxy from the configured proxy servers list.
custom_http_headers	Adds custom headers you wish to use to invoke the Webhook.
criteria	Specifies where the webhook will be applied, on which builds and repositories. <b>Note:</b> The supported format of includePatterns and excludePatterns is ANT pattern.

### Response Codes:

- **200** List successfully provided

### 4.11.3 | Create a New Webhook Subscription

**Description:** Registers a new Webhook subscription with a given input.

**Security:** Requires a valid admin user.

**Usage:** POST event/api/v1/subscriptions

**Produces:** application/json

#### Sample Input for Predefined Webhook:

```
{
  "key": "Audits",
  "description": "Triggers Security and QA audits when a new artifact is created",
  "enabled": true,
  "event_filter": {
    "domain": "artifact",
    "event_types": [
      "deployed",
      "moved",
      "copied"
    ],
    "criteria": {
```

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```
"anyLocal": true,  
"anyRemote": false,  
"includePatterns": [],  
"excludePatterns": [],  
"repoKeys": []  
}  
},  
"handlers": [  
{  
"handler_type": "webhook",  
"url": "https://webhook.my-company.test/",  
"secret": "tell no one",  
"proxy": "mainProxy",  
"custom_http_headers": [  
{  
"name": "X-MyCompany-Header",  
"value": "whatever"  
}  
]  
}  
]  
]  
}
```

### Sample Output for Predefined Webhook:

```
{  
"key": "Audits",  
"description": "Triggers Security and QA audits when a new artifact is created",  
"enabled": true,  
"event_filter": {  
"domain": "artifact",  
"event_types": [  
"deployed",  
"moved",  
"copied"  
],  
"criteria": {  
"anyLocal": true,  
"anyRemote": false,  
"includePatterns": [],  
"excludePatterns": [],  
"repoKeys": []  
}  
},  
"handlers": [  
{  
"handler_type": "webhook",  
"url": "https://webhook.my-company.test/",  
"secret": "tell no one",  
"proxy": "mainProxy",  
"custom_http_headers": [  
{  
"name": "X-MyCompany-Header",  
"value": "whatever"  
}  
]  
}  
]  
}
```

When registering a Webhook subscription, the following elements are part of Artifactory itself; domain, event\_types and criteria and have the following valid values:

# JFrog REST APIs Displayed in the header

domain	event-types	criteria
artifact	<ul style="list-style-type: none"> <li>• deployed</li> <li>• deleted</li> <li>• moved</li> <li>• copied</li> </ul>	<ul style="list-style-type: none"> <li>• anyLocal</li> <li>• anyRemote</li> <li>• includePatterns</li> <li>• excludePatterns</li> <li>• repoKeys</li> </ul>
artifact_property	<ul style="list-style-type: none"> <li>• added</li> <li>• deleted</li> </ul>	
docker	<ul style="list-style-type: none"> <li>• pushed</li> <li>• deleted</li> <li>• promoted</li> </ul>	
build	<ul style="list-style-type: none"> <li>• uploaded</li> <li>• deleted</li> <li>• promoted</li> </ul>	<ul style="list-style-type: none"> <li>• anyBuild</li> <li>• selectedBuilds</li> <li>• includePatterns</li> <li>• excludePatterns</li> </ul>
release_bundle	<ul style="list-style-type: none"> <li>• created</li> <li>• signed</li> <li>• deleted</li> </ul>	<ul style="list-style-type: none"> <li>• anyReleaseBundle</li> <li>• includePatterns</li> <li>• excludePatterns</li> <li>• registeredReleaseBundlesNames</li> </ul>
distribution	<ul style="list-style-type: none"> <li>• distribute_started</li> <li>• distribute_completed</li> <li>• distribute_aborted</li> <li>• distribute_failed</li> <li>• delete_started</li> <li>• delete_completed</li> <li>• delete_failed</li> </ul>	<ul style="list-style-type: none"> <li>• anyReleaseBundle</li> <li>• includePatterns</li> <li>• excludePatterns</li> <li>• registeredReleaseBundlesNames</li> </ul>
artifactory_release_bundle	<ul style="list-style-type: none"> <li>• received</li> <li>• delete_started</li> <li>• delete_completed</li> <li>• delete_failed</li> </ul>	<ul style="list-style-type: none"> <li>• anyReleaseBundle</li> <li>• includePatterns</li> <li>• excludePatterns</li> <li>• registeredReleaseBundlesNames</li> </ul>

Sample Request for Custom Webhook:

# JFrog REST APIs Displayed in the header

```
{  
    "key": "trigger_action",  
    "enabled": true,  
    "event_filter": {  
        "domain": "artifact",  
        "event_types": [  
            "deployed"  
        ],  
        "criteria": {  
            "anyLocal": true  
        }  
    },  
    "handlers": [  
        {  
            "handler_type": "custom-webhook",  
            "url": "https://api.github.com/repos/your/repo/actions/workflows/artifact_deployed.yml/dispatches",  
            "method": "POST", //can be any valid http verb  
            "payload": "{ \"ref\": \"main\" , \"inputs\": { \"artifact_path\": \"{{.data.repo_key}}/{{.data.path}}\" } }",  
            "proxy": "mainProxy",  
            "secrets": [  
                {  
                    "name": "token",  
                    "value": "***"  
                }  
            ],  
            "http_headers": [  
                {  
                    "name": "Authorization",  
                    "value": "Bearer {{.secrets.token}}"  
                },  
                {  
                    "name": "Accept",  
                    "value": "application/vnd.github+json"  
                },  
                {  
                    "name": "Content-Type",  
                    "value": "application/json"  
                }  
            ]  
        }  
    ]  
}
```

Parameter	Description
url	This is the target URL that will get called.  <b>Example:</b> <code>https://api.github.com/repos/your/repo/actions/workflows/artifact_deployed.yml/dispatches</code>
http_headers	This is the list of HTTP headers (name+value) that will be added to the request.
payload	This is used to build the request body.
secrets	This is a set of sensitive values that will be injected in the request (headers and/or payload).  <b>Note</b>  It is possible to update the value of a secret (when a password changes, or a token expires). The Webhook will fail if the token expires. In such cases, you must update the token using the following REST API call:

# JFrog REST APIs Displayed in the header

Parameter	Description
	<pre>PUT /event/api/v1/subscriptions/&lt;sub-key&gt;/secrets/&lt;secret-name&gt;  Authorization: Bearer &lt;admin token&gt;  Content-Type: text/plain  &lt;secret-value&gt;</pre>

## Sample Response for Custom Webhook:

```
{
  "enabled": true,
  "event_filter": {
    "criteria": {
      "anyLocal": true
    },
    "domain": "artifact",
    "event_types": [
      "deployed"
    ]
  },
  "handlers": [
    {
      "handler_type": "custom-webhook",
      "http_headers": [
        {
          "name": "Authorization",
          "value": "Bearer {{.secrets.token}}"
        },
        {
          "name": "Accept",
          "value": "application/vnd.github+json"
        },
        {
          "name": "Content-Type",
          "value": "application/json"
        }
      ],
      "payload": "{ \"ref\": \"main\" , \"inputs\": { \"artifact_path\": \"{{.data.repo_key}}/{{.data.path}}\" } }",
      "proxy": "mainProxy",
      "secrets": [
        {
          "name": "token"
        }
      ],
      "url": "https://api.github.com/repos/your/repo/actions/workflows/artifact_deployed.yml/dispatches"
      "method": "POST"
    }
  ],
  "key": "trigger_action"
}
```

## Response Codes:

- **201** Success of creation
- **400** Bad Input
- **409** Subscription conflicts with an existing one (e.g key)

## JFrog REST APIs Displayed in the header

### 4.11.4 | Get a Webhook Subscription by Key

**Description:** Get a Webhook subscription with a given key.

**Security:** Requires a valid admin user.

**Usage:** GET event/api/v1/subscriptions/{key}

**Produces:** application/json

**Sample Output:**

```
{  
  "key": "Audits",  
  "description": "Triggers Security and QA audits when a new artifact is created",  
  "enabled": true,  
  "event_filter": {  
    "domain": "artifact",  
    "event_types": [  
      "deployed",  
      "moved",  
      "copied"  
    ],  
    "criteria": {  
      "anyLocal": true,  
      "anyRemote": false,  
      "includePatterns": [],  
      "excludePatterns": [],  
      "repoKeys": []  
    }  
  },  
  "handlers": [  
    {  
      "handler_type": "webhook",  
      "url": "https://webhook.my-company.test/",  
      "secret": "tell no one",  
      "proxy": "mainProxy",  
      "custom_http_headers": [  
        {  
          "name": "X-MyCompany-Header",  
          "value": "whatever"  
        }  
      ]  
    }  
  ]  
}
```

**Response Codes:**

- **200** Subscription description successfully provided
- **404** Subscription does not exist

### 4.11.5 | Update Webhook Subscription by Key

**Description:** Updates the Webhook subscription with a given key.

**Security:** Requires a valid admin user.

**Usage:** PUT event/api/v1/subscriptions/{key}

**Produces:** application/json

**Sample Input:**

```
{  
  "description": "Triggers Security and QA audits when a new artifact is created",  
  "enabled": true,  
  "event_filter": {
```

```
"domain": "artifact",
"event_types": [
    "deployed",
    "moved",
    "copied"
],
"criteria": {
    "anyLocal": true,
    "anyRemote": false,
    "includePatterns": [],
    "excludePatterns": [],
    "repoKeys": []
},
"handlers": [
{
    "handler_type": "webhook",
    "url": "https://webhook.my-company.test/",
    "secret": "tell no one",
    "proxy": "mainProxy",
    "custom_http_headers": [
        {
            "name": "X-MyCompany-Header",
            "value": "whatever"
        }
    ]
}
]
}
```

**Response Codes:**

- **204** Success of update (no content)
- **400** Bad input
- **404** Subscription does not exist

#### 4.11.6 | Delete Webhook Subscription by Key

**Description:** Deletes the Webhook subscription with a given key.

**Security:** Requires a valid admin user.

**Usage:** DELETE event/api/v1/subscriptions/{key}

**Produces:** application/json

**Response Codes:**

- **204** Success of deletion (no content)
- **404** Subscription does not exist

#### 4.11.7 | Test Webhook Subscription

**Description:** Manually trigger a Webhook subscription with sample data as if an event actually occurred. Subscription definition is given by the request payload.

**Security:** Requires a valid admin user.

**Usage:** POST event/api/v1/subscriptions/test

**Produces:** application/json

**Sample Input:**

## JFrog REST APIs Displayed in the header

```
{  
  "key": "Audits",  
  "description": "Triggers Security and QA audits when a new artifact is created",  
  "enabled": true,  
  "event_filter": {  
    "domain": "artifact",  
    "event_types": [  
      "deployed",  
      "moved",  
      "copied"  
    ],  
    "criteria": {  
      "anyLocal": true,  
      "anyRemote": false,  
      "includePatterns": [],  
      "excludePatterns": [],  
      "repoKeys": []  
    }  
  },  
  "handlers": [  
    {  
      "handler_type": "webhook",  
      "url": "https://webhook.my-company.test/",  
      "secret": "tell no one",  
      "proxy": "mainProxy",  
      "custom_http_headers": [  
        {  
          "name": "X-MyCompany-Header",  
          "value": "whatever"  
        }  
      ]  
    }  
  ]  
}
```

### Sample Output:

```
{  
  "result": "success",  
  "message": "Test is successful"  
}
```

### Response Codes:

- **200** Test was performed, a report (success or failure) is provided in the response payload, including when the JFrog Service that should be the source of the event, is unreachable/unhealthy).
- **400** Bad Input

### 4.11.8 | Ping Request

**Description:** Sends a ping request to check if the microservice status.

**Security:** Requires an admin user.

**Usage:** GET /system/ping

**Produces:** text/plain

**Sample usage:**

```
curl -uadmin:password http://localhost:8082/access/api/v1/system/ping
```

# JFrog REST APIs Displayed in the header

## 4.11.9 | Stream All Troubleshooting Data

**Description:** Stream all webhooks troubleshooting data.

**Security:** Requires a valid admin user.

**Usage:** GET event/api/v1/troubleshooting

**Produces:** application/json

### Sample Output

GET event/api/v1/troubleshooting

```
{
  "timestamp": 1694520528315,
  "elapsed_millis": 208,
  "errors": [
    "error executing webhook: unexpected HTTP response status"
  ],
  "request": {
    "method": "POST",
    "url": "https://webhook-target/a9736bc8",
    "headers": {
      "Content-Type": "application/json"
    },
    "payload": "{\"domain\":\"artifact\",\"event_type\":\"deployed\",\"data\":{\"repo_key\":\"example-repo-local\",\"path\":\"some.log\",\"name\":\"some.log\",\"sha256\":\"069092736c73613a25917f582f8a2621b8495cb723914c85dc570761ce0846f8\"},\"size\":353178},\"subscription_key\":\"test\",\"source\":\"jfrog/jfrt@01h9mspg5atsp402qqxm071zjv\"}",
    "retries_attempted": 0
  },
  "response": {
    "status": 404,
    "headers": {
      "Cache-Control": "no-cache, private",
      "Content-Type": "application/json",
      "Date": "Tue, 12 Sep 2023 12:08:48 GMT",
      "Server": "nginx",
      "Vary": "Accept-Encoding"
    },
    "body": "{\"success\":false,\"error\":{\"message\":\"Alias a9736bc8 not found\",\"id\":null}}"
  },
  "event": {
    "id": "01HA4MPK6XVKTD0XMS9SVM1GER",
    "subscription_key": "test",
    "domain": "artifact",
    "event_type": "deployed",
    "data": "{\"repo_key\":\"example-repo-local\",\"path\":\"some.log\",\"name\":\"some.log\",\"sha256\":\"069092736c73613a25917f582f8a2621b8495cb723914c85dc570761ce0846f8\"},\"size\":353178}",
    "source": "jfrog/jfrt@01h9mspg5atsp402qqxm071zjv"
  }
}

{
  "timestamp": 1694520678610,
  "elapsed_millis": 228,
  "errors": [
    "error executing webhook: unexpected HTTP response status"
  ],
  "request": {
    "method": "POST",
    "url": "https://webhook-target/a9736bc8",
    "headers": {
      "Content-Type": "application/json"
    },
    "payload": "{\"domain\":\"artifact\",\"event_type\":\"deployed\",\"data\":{\"repo_key\":\"example-repo-local\",\"path\":\"some.log\",\"name\":\"some.log\",\"sha256\":\"069092736c73613a25917f582f8a2621b8495cb723914c85dc570761ce0846f8\"},\"size\":353178},\"subscription_key\":\"test\",\"source\":\"jfrog/jfrt@01h9mspg5atsp402qqxm071zjv\"}",
    "retries_attempted": 0
  },
}
```

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```
"response": {
    "status": 404,
    "headers": {
        "Cache-Control": "no-cache, private",
        "Content-Type": "application/json",
        "Date": "Tue, 12 Sep 2023 12:18:48 GMT",
        "Server": "nginx",
        "Vary": "Accept-Encoding"
    },
    "body": "{\"success\":false,\"error\":{\"message\":\"Alias a9736bc8 not found\",\"id\":null}}"
},
"event": {
    "id": "01HA4MPK6XVKTD0XMSSVM1GSR",
    "subscription_key": "test",
    "domain": "artifact",
    "event_type": "deployed",
    "data": "{\"repo_key\":\"example-repo-local\",\"path\":\"some.log\",\"name\":\"some.log\",\"sha256\":\"069092736c73613a25917f582f8a2621b8495cb723914c85dc570761ce0846f8\",\"size\":353178}",
    "source": "jfrog/jfrt@01h9mspg5atsp402qqxm071zjv"
}
}
```

## 4.11.10 | Stream Filtered Troubleshooting Data

**Description:** Stream webhooks troubleshooting data with a filter.

**Security:** Requires a valid admin user.

**Usage:** GET event/api/v1/troubleshooting?subscription=<subscription>&target=<URL>

**Produces:** application/json

### Sample Output

GET event/api/v1/troubleshooting?subscription=mysub&target=github.com

```
{
    "timestamp": 1694520528315,
    "elapsed_millis": 208,
    "errors": [
        "error executing webhook: unexpected HTTP response status"
    ],
    "request": {
        "method": "POST",
        "url": "https://webhook-target/a9736bc8",
        "headers": {
            "Content-Type": "application/json"
        },
        "payload": "{\"domain\":\"artifact\",\"event_type\":\"deployed\",\"data\":{},\"repo_key\":\"example-repo-local\",\"path\":\"some.log\",\"name\":\"some.log\",\"sha256\":\"069092736c73613a25917f582f8a2621b8495cb723914c85dc570761ce0846f8\",\"size\":353178},\"subscription_key\":\"test\", \"source\":\"jfrog/jfrt@01h9mspg5atsp402qqxm071zjv\"}",
        "retries_attempted": 0
    },
    "response": {
        "status": 404,
        "headers": {
            "Cache-Control": "no-cache, private",
            "Content-Type": "application/json",
            "Date": "Tue, 12 Sep 2023 12:08:48 GMT",
            "Server": "nginx",
            "Vary": "Accept-Encoding"
        },
        "body": "{\"success\":false,\"error\":{\"message\":\"Alias a9736bc8 not found\",\"id\":null}}"
    },
    "event": {
        "id": "01HA4MPK6XVKTD0XMS9SVM1GER",
        "subscription_key": "test",
        "domain": "artifact",
        "event_type": "deployed",
        "data": "{\"repo_key\":\"example-repo-local\",\"path\":\"some.log\",\"name\":\"some.log\",\"sha256\":\"069092736c73613a25917f582f8a2621b8495cb723914c85dc570761ce0846f8\",\"size\":353178}",
        "source": "jfrog/jfrt@01h9mspg5atsp402qqxm071zjv"
    }
}
```

## JFrog REST APIs Displayed in the header

```
"domain": "artifact",
"event_type": "deployed",
"data": "{\"repo_key\": \"example-repo-local\", \"path\": \"some.log\", \"name\": \"some.log\", \"sha256\": \"069092736c73613a25917f582f8a2621b8495cb723914c85dc570761ce0846f8\", \"size\": 353178}",
"source": "jfrog/jfrt@01h9mspg5atsp402qqxm071zjv"
}
}
```

### 4.11.11 | Fetch Historical Troubleshooting Data

**Description:** Fetch webhooks troubleshooting data based on timestamp information.

**Security:** Requires a valid admin user.

**Usage:** GET event/api/v1/troubleshooting?start=<start timestamp>&end=<end timestamp>&count=<number of records>

The start parameter includes data reported since the provided timestamp and the end parameter includes data reported before the provided timestamp.

If you provide the start parameter and do not provide the count or end parameter, the stream will be live and provides the new data as and when it comes in.

You cannot use the end and count parameters without the start parameter. The values of the start and end parameters should be in Unix timestamp. You can also use subscription and node filter parameters to narrow down your results.

**Produces:** application/json

#### Sample Output

```
GET event/api/v1/troubleshooting?start=14354677650&end=14354677680&count=5
{
  "timestamp": 14354677655,
  "elapsed_millis": 208,
  "errors": [
    "error executing webhook: unexpected HTTP response status"
  ],
  "request": {
    "method": "POST",
    "url": "https://webhook-target/a9736bc8",
    "headers": {
      "Content-Type": "application/json"
    },
    "payload": "{\"domain\": \"artifact\", \"event_type\": \"deployed\", \"data\": {\"repo_key\": \"example-repo-local\", \"path\": \"some.log\", \"name\": \"some.log\", \"sha256\": \"069092736c73613a25917f582f8a2621b8495cb723914c85dc570761ce0846f8\", \"size\": 353178}, \"subscription_key\": \"test\", \"source\": \"jfrog/jfrt@01h9mspg5atsp402qqxm071zjv\"}",
    "retries_attempted": 0
  },
  "response": {
    "status": 404,
    "headers": {
      "Cache-Control": "no-cache, private",
      "Content-Type": "application/json",
      "Date": "Tue, 12 Sep 2023 12:08:48 GMT",
      "Server": "nginx",
      "Vary": "Accept-Encoding"
    },
    "body": "{\"success\": false, \"error\": {\"message\": \"Alias a9736bc8 not found\", \"id\": null}}"
  },
  "event": {
    "id": "01HA4MPK6XVKTD0XMS9SVM1GER",
    "subscription_key": "test",
    "domain": "artifact",
    "event_type": "deployed",
    "data": "{\"repo_key\": \"example-repo-local\", \"path\": \"some.log\", \"name\": \"some.log\", \"sha256\": \"069092736c73613a25917f582f8a2621b8495cb723914c85dc570761ce0846f8\", \"size\": 353178}",
    "source": "jfrog/jfrt@01h9mspg5atsp402qqxm071zjv"
  }
}
```

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```
        }
    }

{
  "timestamp": 14354677669,
  "elapsed_millis": 228,
  "errors": [
    "error executing webhook: unexpected HTTP response status"
  ],
  "request": {
    "method": "POST",
    "url": "https://webhook-target/a9736bc8",
    "headers": {
      "Content-Type": "application/json"
    },
    "payload": "{\"domain\":\"artifact\", \"event_type\":\"deployed\", \"data\":{\"repo_key\":\"example-repo-local\", \"path\":\"some.log\", \"name\":\"some.log\", \"sha256\":\"069092736c73613a25917f582f8a2621b8495cb723914c85dc570761ce0846f8\", \"size\":353178}, \"subscription_key\":\"test\", \"source\":\"jfrog/jfrt@01h9mspg5atsp402qqxm071zjv\"}",
    "retries_attempted": 0
  },
  "response": {
    "status": 404,
    "headers": {
      "Cache-Control": "no-cache, private",
      "Content-Type": "application/json",
      "Date": "Tue, 12 Sep 2023 12:18:48 GMT",
      "Server": "nginx",
      "Vary": "Accept-Encoding"
    },
    "body": "{\"success\":false, \"error\":{\"message\":\"Alias a9736bc8 not found\", \"id\":null}}"
  },
  "event": {
    "id": "01HA4MPK6XVKTD0XMSSVM1GSR",
    "subscription_key": "test",
    "domain": "artifact",
    "event_type": "deployed",
    "data": "{\"repo_key\":\"example-repo-local\", \"path\":\"some.log\", \"name\":\"some.log\", \"sha256\":\"069092736c73613a25917f582f8a2621b8495cb723914c85dc570761ce0846f8\", \"size\":353178}",
    "source": "jfrog/jfrt@01h9mspg5atsp402qqxm071zjv"
  }
}
```

## Fetch Earliest Data in Storage

Use the following API call to fetch all the data from the earliest data available in Redis.

```
GET event/api/v1/troubleshooting?start=0
```

You can use the count parameter the limit the number of results or the end parameter to specify an ending timestamp. Otherwise, all the records will appear and the stream will be live capturing the new events.

## Note

Redis stores the last 10000 records and records prior to the 10000 records stored are cleared automatically every 30 seconds.

## Fetch All Data in Between two timestamps

Use the following API call to fetch all the data between two timestamps.

```
GET event/api/v1/troubleshooting?start=14354677669&end=15354677800
```

## Live Stream Data from a Past Timestamp

Use the following API call to live stream data starting from a timestamp in the past.

```
GET event/api/v1/troubleshooting?start=14354677669
```

## 4.12 | Authentication Providers Configuration REST APIs

Following the deprecation of the user plugins below to increase security, a new set of REST APIs have been added to provide the same functionality as the deprecate plugins.

- httpSsoConfig (deprecated from Artifactory release 7.55)
- ldapSettingsConfig (deprecated from Artifactory release 7.57)
- ldapGroupsConfig (deprecated from Artifactory release 7.57)

### 4.12.1 | Crowd

#### 4.12.1.1 | Add Crowd Settings

**Description:** Add Crowd authentication access details.

**Since:** Artifactory 7.64

**Security:** Requires admin user token authentication

**Usage:** PUT access/api/v1/crowd

#### Sample Request

```
{  
  "enable_integration": true,  
  "server_url": "http://10.1.21.241:8095/crowd",  
  "application_name": "mycrowd",  
  "password": "JE2g5nwPugVHfHRxVUy1iVp7HDKf3W6wJ258fNm6Usm9h6JKts",  
  "session_validation_interval": 5,  
  "use_default_proxy": false,  
  "auto_user_creation": false,  
  "allow_user_to_access_profile": false,  
  "custom_cookie_token_key": "crowd.token_key",  
  "direct_authentication": false,  
  "override_all_groups_upon_login": false  "http_sso_proxied": true,  
}  
}
```

#### 4.12.1.2 | Get Crowd Settings

**Description:** Returns the details for the Crowd settings authentication.

**Since:** Artifactory 7.64

**Security:** Requires admin user token authentication

**Usage:** GET access/api/v1/crowd/settings

#### Sample Response

```
{  
  "enable_integration": true,  
  "server_url": "http://10.1.21.241:8095/crowd",  
  "application_name": "mycrowd",  
  "password": "JE2futajgejMiXKwdYsjR7z6rZyjE7cCe0KMqk5pr7HaLHcxqZ",  
  "session_validation_interval": 5,  
  "use_default_proxy": false,  
  "auto_user_creation": true,  
  "allow_user_to_access_profile": false,  
  "custom_cookie_token_key": "crowd.token_key",  
  "direct_authentication": false,  
  "override_all_groups_upon_login": false  
}
```

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## 4.12.1.3 | Update Crowd Settings

**Description:** Updates the details on Crowd authentication access.

**Since:** Artifactory 7.64

**Security:** Requires admin user token authentication

**Usage:** PUT access/api/v1/crowd

### Sample Request

```
{  
    "enable_integration": true,  
    "server_url": "http://10.1.21.241:8095/crowd",  
    "application_name": "mycrowd",  
    "password": "JE2g5nwPugVHfHRxVUy1iVp7HDKf3W6wJ258fNm6Usm9h6JKts",  
    "session_validation_interval": 5,  
    "use_default_proxy": false,  
    "auto_user_creation": false,  
    "allow_user_to_access_profile": false,  
    "custom_cookie_token_key": "crowd.token_key",  
    "direct_authentication": false,  
    "override_all_groups_upon_login": false  "http_sso_proxied": true,  
}
```

## 4.12.2 | HTTP SSO

### 4.12.2.1 | Get HTTP SSO Settings

**Description:** Returns the status of Disable Basic Authentication in the JPD.

**Since:** Artifactory 7.57.1

**Security:** Requires admin user token authentication

**Usage:** GET access/api/v1/httpsso

### Sample Response

```
{  
    "http_sso_proxied": true,  
    "auto_create_user": false,  
    "allow_user_to_access_profile": false,  
    "remote_user_request_variable": "\"REMOTE_USER\"",  
    "sync_ldap_groups": true,  
}
```

### 4.12.2.2 | Update HTTP SSO Settings

**Description:** Updates the details on HTTP single sign-on access.

**Since:** Artifactory 7.57.1

**Security:** Requires admin user token authentication

**Usage:** PUT access/api/v1/httpsso

### Sample Request

```
request body:  
{  
    "http_sso_proxied": true,  
    "auto_create_user": false,  
    "allow_user_to_access_profile": false,  
    "remote_user_request_variable": "\"REMOTE_USER\"",  
}
```

```
"sync_ldap_groups": true,  
}
```

#### 4.12.3 | LDAP

##### 4.12.3.1 | Add LDAP Settings

**Description:** Adds LDAP settings.

**Since:** Artifactory 7.57.1

**Security:** Requires admin user token authentication

**Usage:** POST access/api/v1/ldap/settings

##### Sample Request

request body:

```
{  
  "key": "ldap1",  
  "enabled": true,  
  "ldap_url": "ldap://somehost",  
  "user_dn_pattern": "uid={0}",  
  "search": {  
    "search_filter": null,  
    "search_base": null,  
    "search_sub_tree": false,  
    "manager_dn": null,  
    "manager_password": null  
  },  
  "auto_create_user": true,  
  "email_attribute": "email",  
  "ldap_poisoning_protection": false,  
  "allow_user_to_access_profile": false,  
  "paging_support_enabled": true  
}
```

##### 4.12.3.2 | Get the LDAP Settings

**Description:** Returns the details on the LDAP settings authentication.

**Since:** Artifactory 7.57.1

**Security:** Requires admin user token authentication

**Usage:** GET access/api/v1/ldap/settings

##### Sample Response

```
response  
[  
  {  
    "key": "ldap1",  
    "enabled": true,  
    "ldap_url": "ldap://somehost",  
    "user_dn_pattern": "uid={0}",  
    "search": {  
      "search_filter": null,  
      "search_base": null,  
      "search_sub_tree": false,  
      "manager_dn": null,  
      "manager_password": null  
    },  
    "auto_create_user": true,  
    "email_attribute": "email",  
    "allow_user_to_access_profile": false,  
    "paging_support_enabled": true  
  }]
```

```
"ldap_poisoning_protection": false,  
"allow_user_to_access_profile": false,  
"paging_support_enabled": true  
,  
{  
  "key": "ldap2",  
  "enabled": true,  
  "ldap_url": "ldap://somehost",  
  "user_dn_pattern": "uid={0}",  
  "search": {  
    "search_filter": null,  
    "search_base": null,  
    "search_sub_tree": false,  
    "manager_dn": null,  
    "manager_password": null  
  },  
  "auto_create_user": true,  
  "email_attribute": "email",  
  "ldap_poisoning_protection": false,  
  "allow_user_to_access_profile": false,  
  "paging_support_enabled": true  
}  
]
```

#### 4.12.3.3 | Get the LDAP Settings by Key

**Description:** Returns the details on the LDAP settings authentication by LDAP setting key.

**Since:** Artifactory 7.57.1

**Security:** Requires admin user token authentication

**Usage:** GET access/api/v1/ldap/settings/{ldap\_setting\_key}

#### Sample Response

```
response  
{  
  "key": "ldap1",  
  "enabled": true,  
  "ldap_url": "ldap://somehost",  
  "user_dn_pattern": "uid={0}",  
  "search": {  
    "search_filter": null,  
    "search_base": null,  
    "search_sub_tree": false,  
    "manager_dn": null,  
    "manager_password": null  
  },  
  "auto_create_user": true,  
  "email_attribute": "email",  
  "ldap_poisoning_protection": false,  
  "allow_user_to_access_profile": false,  
  "paging_support_enabled": true  
}
```

#### 4.12.3.4 | Update LDAP Settings

**Description:** Updates the LDAP settings.

**Since:** Artifactory 7.57.1

**Security:** Requires admin user token authentication

**Usage:** PUT access/api/v1/ldap/settings

### Sample Request

request body:

```
{  
  "key": "ldap1",  
  "enabled": true,  
  "ldap_url": "ldap://somehost",  
  "user_dn_pattern": "uid={0}",  
  "search": {  
    "search_filter": null,  
    "search_base": null,  
    "search_sub_tree": false,  
    "manager_dn": null,  
    "manager_password": null  
  },  
  "auto_create_user": true,  
  "email_attribute": "email",  
  "ldap_poisoning_protection": false,  
  "allow_user_to_access_profile": false,  
  "paging_support_enabled": true  
}
```

#### 4.12.3.5 | Delete LDAP Settings

**Description:** Deletes the LDAP settings.

**Since:** Artifactory 7.57.1

**Security:** Requires admin user token authentication

**Usage:** DELETE access/api/v1/ldap/settings/{ldap\_setting\_key}

#### 4.12.4 | LDAP Group

##### 4.12.4.1 | Add LDAP Group Settings

**Description:** Adds LDAP group settings.

**Since:** Artifactory 7.57.1

**Security:** Requires admin user token authentication

**Usage:** POST access/api/v1/ldap/groups

### Sample Request

request body:

```
{  
  "name": "ldapGroup2",  
  "enabled_ldap": "ldap2",  
  "group_base_dn": null,  
  "group_name_attribute": "cn",  
  "group_member_attribute": "uniqueMember",  
  "sub_tree": true,  
  "force_attribute_search": false,  
  "filter": "(objectClass=groupOfNames)",  
  "description_attribute": "description",  
  "strategy": "STATIC"  
}
```

##### 4.12.4.2 | Get the LDAP Group Settings

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**Description:** Returns the details on the LDAP group settings authentication.

**Since:** Artifactory 7.57.1

**Security:** Requires admin user token authentication

**Usage:** GET access/api/v1/ldap/groups

### Sample Response

```
response:  
[  
  {  
    "name": "ldapGroup1",  
    "enabled_ldap": "ldap1",  
    "group_base_dn": null,  
    "group_name_attribute": "cn",  
    "group_member_attribute": "uniqueMember",  
    "sub_tree": true,  
    "force_attribute_search": false,  
    "filter": "(objectClass=groupOfNames)",  
    "description_attribute": "description",  
    "strategy": "STATIC"  
  },  
  {  
    "name": "ldapGroup2",  
    "enabled_ldap": "ldap2",  
    "group_base_dn": null,  
    "group_name_attribute": "cn",  
    "group_member_attribute": "uniqueMember",  
    "sub_tree": true,  
    "force_attribute_search": false,  
    "filter": "(objectClass=groupOfNames)",  
    "description_attribute": "description",  
    "strategy": "STATIC"  
  }  
]
```

### 4.12.4.3 | Get the LDAP Group Settings by Group Name

**Description:** Returns the details on the LDAP group settings authentication by LDAP setting group name.

**Since:** Artifactory 7.57.1

**Security:** Requires admin user token authentication

**Usage:** GET access/api/v1/ldap/groups/{ldap\_group\_setting\_name}

### Sample Response

```
response {  
  "name": "ldapGroup2",  
  "enabled_ldap": "ldap2",  
  "group_base_dn": null,  
  "group_name_attribute": "cn",  
  "group_member_attribute": "uniqueMember",  
  "sub_tree": true,  
  "force_attribute_search": false,  
  "filter": "(objectClass=groupOfNames)",  
  "description_attribute": "description",  
  "strategy": "STATIC"  
}
```

### 4.12.4.4 | Update LDAP Group Settings

**Description:** Updates the LDAP group settings.

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**Since:** Artifactory 7.57.1

**Security:** Requires admin user token authentication

**Usage:** PUT access/api/v1/ldap/groups

### Sample Request

```
request body:  
{  
    "name": "ldapGroup2",  
    "enabled_ldap": "ldap2",  
    "group_base_dn": null,  
    "group_name_attribute": "cn",  
    "group_member_attribute": "uniqueMember",  
    "sub_tree": true,  
    "force_attribute_search": false,  
    "filter": "(objectClass=groupOfNames)",  
    "description_attribute": "description",  
    "strategy": "STATIC"  
}
```

#### 4.12.4.5 | Import or Update LDAP Group Settings

**Description:** Can update, import, or update and import LDAP groups using the name of the LDAP group settings. Returns a response body with the number of groups that were imported.

**Since:** Artifactory 7.79

**Security:** Requires admin user token authentication

**Usage:** POST access/api/v1/ldap/groups/{name}/refresh?operation={operation}&username={username}

### Parameters

Parameter	Options
name	<b>LdapGroupSettings</b> name for LDAP groups to be updated or imported.
operation	Identify the operation to be performed by the API. Can be one of the following: <b>UPDATE</b> <b>IMPORT</b> <b>UPDATE_AND_IMPORT</b> Optional, if not provided, then the <b>UPDATE_AND_IMPORT</b> operation is performed.
username	Name of user. Optional, if not provided, the operation is performed for all users.

#### 4.12.4.6 | Delete LDAP Group Settings

**Description:** Deletes the LDAP group settings.

**Since:** Artifactory 7.57.1

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**Security:** Requires admin user token authentication

**Usage:** DELETE access/api/v1/ldap/groups/{ldap\_group\_setting\_name}

## 4.12.5 | SAML

### 4.12.5.1 | Get the SAML Settings

**Description:** Returns the details on the SAML settings authentication.

**Since:** Artifactory 7.83.1

**Security:** Requires admin user token authentication

**Usage:** GET access/api/v1/saml

#### Sample Response

```
response
{
    "name": "firstsaml",
    "enable_integration": true,
    "verify_audience_restriction": false,
    "login_url": "https://dev.idp.com/sso/saml",
    "logout_url": "https://samltest.jfrog.io/logout",
    "certificate":
"3g344rSkC0fftVrYuPp5hVBM6buVd+N2phUvTCe+oK35+2Fd1DIP+HSax0e2/B0XmapMNI128I97A7cemMB/pzEiZ15tL5DhnjDCyWhJxj4m1GB2Y4m/xZiCzvP2
UARy/cKEB8dseJS/q0EsfuAjnHVQHLeFfr4y5MBSxeY3K0v0X8JL",
    "service_provider_name": "http://www.IDP.com/exko8tFM0h7",
    "auto_user_creation": false,
    "allow_user_to_access_profile": false,
    "use_encrypted_assertion": false,
    "auto_redirect": false,
    "sync_groups": false,
    "group_attribute": "groupName",
    "email_attribute": "userMail",
    "name_id_attribute": "ID"
}
```

### 4.12.5.2 | Get the SAML Settings by Name

**Description:** Returns the details on the SAML settings authentication by SAML setting name.

**Since:** Artifactory 7.83.1

**Security:** Requires admin user token authentication

**Usage:** GET access/api/v1/saml/{saml\_setting\_name}

#### Sample Response

```
response
{
    "name": "firstsaml",
    "enable_integration": true,
    "verify_audience_restriction": false,
    "login_url": "https://sso/saml",
    "logout_url": "https://oktapreview.com",
    "certificate":
"3g344rSkC0fftVrYuPp5hVBM6buVd+N2phUvTCe+oK35+2Fd1DIP+HSax0e2/B0XmapMNI128I97A7cemMB/pzEiZ15tL5DhnjDCyWhJxj4m1GB2Y4m/xZiCzvP2
UARy/cKEB8dseJS/q0EsfuAjnHVQHLeFfr4y5MBSxeY3K0v0X8JL",
    "service_provider_name": "http://www.okta.com/exko8tqtGFM0h7",
    "auto_user_creation": false,
    "allow_user_to_access_profile": false,
    "use_encrypted_assertion": false,
    "auto_redirect": false,
```

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```
"sync_groups": false,  
"group_attribute": "",  
"email_attribute": "",  
"name_id_attribute": ""  
}
```

### 4.12.5.3 | Add SAML Settings

**Description:** Adds SAML settings.

**Since:** Artifactory 7.83.1

**Security:** Requires admin user token authentication

**Usage:** POST access/api/v1/saml

#### Sample Request

request

```
{  
    "name": "settingName",  
    "enable_integration": true,  
    "verify_audience_restriction": false,  
    "login_url": "https://sso/saml",  
    "logout_url": "https://okta.com",  
    "service_provider_name": "http://www.provider",  
    "auto_user_creation": true,  
    "allow_user_to_access_profile": false,  
    "use_encrypted_assertion": false,  
    "auto_redirect": false,  
    "sync_groups": true,  
    "certificate": "aaaaaa",  
    "group_attribute": "group",  
    "email_attribute": "",  
    "name_id_attribute": "userName",  
    "saml_group_setting": ["saml_group_settings1", "saml_group_settings2"]  
}
```

### 4.12.5.4 | Update SAML Settings

**Description:** Updates the SAML settings.

**Since:** Artifactory 7.83.1

**Security:** Requires admin user token authentication

**Usage:** PUT access/api/v1/saml/{setting\_name}

#### Sample Request

request body:

```
{  
    "name": "testsaml",  
    "enable_integration": true,  
    "verify_audience_restriction": false,  
    "login_url": "https://sso/saml",  
    "logout_url": "https://www.nba.com",  
    "certificate": "  
3g344rSkC0fftVrYuPp5hVBM6buVd+N2phUvTCe+oK35+2Fd1DIP+HSax0e2/B0XmapMNI128I97A7cemMB/pzEiZ15tL5DhnjDCyWhJxj4m1GB2Y4m/xZiCzvP2  
UARy/cKEB8dseJS/q0EsfuAjnHVQHLeFfr4y5MBSxeY3K0v0X8JL",  
    "service_provider_name": "http://www.okta.com/name",  
    "auto_user_creation": false,  
}
```

```
"allow_user_to_access_profile": false,  
"use_encrypted_assertion": false,  
"auto_redirect": false,  
"sync_groups": false,  
"group_attribute": "",  
"email_attribute": "",  
"name_id_attribute": ""  
}
```

#### 4.12.5.5 | Delete SAML Settings

**Description:** Deletes the SAML settings.

**Since:** Artifactory 7.83.1

**Security:** Requires admin user token authentication

**Usage:** DELETE access/api/v1/saml/{setting\_name}

#### 4.12.6 | GET Status of Disable Basic Authentication

**Description:** Returns the status of Disable Basic Authentication in the JPD.

**Since:** Artifactory 7.72.0

**Security:** Requires admin user token authentication

**Usage:** GET access/api/v1/config/security/authentication/basic\_authentication\_enabled

##### Sample Response

```
{  
    "enabled": true  
}
```

##### Response Codes

200 - Successful operation

#### 4.12.7 | Enable or Disable Disable Basic Authentication

**Description:** Returns the status of Disable Basic Authentication in the JPD.

**Since:** Artifactory 7.72.0

**Security:** Requires admin user token authentication

**Usage:** PUT access/api/v1/config/security/authentication/basic\_authentication\_enabled

##### Sample Request

```
{  
    "enabled": true  
}
```

##### Response Codes

400- Invalid input

400 - Invalid input

## 4.13 | PROJECTS

### 4.13.1 | Base URL

Use the following Base URL for all REST APIs in this section:

```
<JFrog_Base_URL>/access/api  
#For example:  
http://ARTIFACTORY_SERVER_HOSTNAME:8082/access/api
```

### 4.13.2 | Get Projects List

**Description:** Returns all projects the requesting user manages (Project Admin or a user assigned with the 'Administer the Platform' role).

**Since:** 7.17.4

**Security:** Requires a user with Project Admin or a user assigned with the 'Administer the Platform' role. Note that if the request is issued by a Project Admin, only the projects listed under the Project Admin's scope will be listed.

**Usage:** GET \${baseUrl}/access/api/v1/projects

**Produces:** application/json; charset=UTF-8

**Header parameter:** -H "Authorization: Bearer <ACCESS\_TOKEN>"

**Sample Response:**

```
[  
 {  
   "display_name": "artifactory",  
   "description": "The binary repository manager",  
   "admin_privileges": {  
     "manage_members": true,  
     "manage_resources": true  
   },  
   "storage_quota_bytes": 0,  
   "soft_limit": false,  
   "storage_quota_email_notification": true  
   "project_key": "rtfct"  
 }  
]
```

### 4.13.3 | Create Project

**Description:** Create a new Project.

**Since:** 7.17.4

**Security:** Requires a user assigned with the 'Administer the Platform' role.

**Usage:** POST \${baseUrl}/access/api/v1/projects

**Produces:** application/json; charset=UTF-8

**Header parameter:** Authorization: Bearer. For more information about creating tokens, see [Create Token](#).

**Sample Request:**

```
{  
   "display_name": "artifactory",  
   "description": "The binary repository manager",  
   "admin_privileges": {  
     "manage_members": true,  
     "manage_resources": true,  
     "index_resources": true  
   },  
   "storage_quota_bytes": 1073741824,
```

```
"project_key": "string"  
}
```

**Sample Response:**

```
{  
  "display_name": "artifactory",  
  "description": "The binary repository manager",  
  "admin_privileges": {  
    "manage_members": true,  
    "manage_resources": true,  
    "index_resources": true  
  },  
  "storage_quota_bytes": 1073741824,  
  "project_key": "string"  
}
```

#### 4.13.4 | Get Project

**Description:** Returns the desired project.

**Since:** 7.17.4

**Security:** Requires a user with Project Admin or a user assigned with the 'Administer the Platform' role.

**Usage:** GET \${baseUrl}/access/api/v1/projects/{project\_key}

**Produces:** application/json; charset=UTF-8

**Header parameter:** Authorization: Bearer

**Parameters:**

Name	Description
project_key * string (path)	The project key

**Sample Response:**

```
{  
  "display_name": "artifactory",  
  "description": "The binary repository manager",  
  "admin_privileges": {  
    "manage_members": true,  
    "manage_resources": true  
  },  
  "storage_quota_bytes": 0,  
  "soft_limit": false,  
  "storage_quota_email_notification": true  
  "project_key": "string"  
}
```

#### 4.13.5 | Update Existing Project Properties

**Description:** Updates an existing project's properties.

**Since:** 7.17.4

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**Security:** Requires a user assigned with the 'Administer the Platform' role permissions.

**Usage:** PUT \${baseUrl}/access/api/v1/projects/{project\_key}

**Produces:** application/json

**Parameters:**

Name	Description
project_key * string (path)	The project key
body * (body)	Project object that needs to be patched

**Header parameter:** Authorization: Bearer

**Sample Request:**

```
{  
  "display_name": "project name",  
  "description": "modified project description",  
  "admin_privileges": {  
    "manage_members": true,  
    "manage_resources": true,  
    "index_resources": false  
  },  
  "storage_quota_bytes": 10000,  
  "soft_limit": false,  
  "storage_quota_email_notification": true  
}
```

**Sample Response:**

```
{  
  "display_name": "artifactory",  
  "description": "The binary repository manager",  
  "admin_privileges": {  
    "manage_members": true,  
    "manage_resources": true  
  },  
  "storage_quota_bytes": 0,  
  "soft_limit": false,  
  "storage_quota_email_notification": true  
  "project_key": "rtfct"  
}
```

### 4.13.6 | Delete Existing Project

**Description:** Deletes an existing project.

**Since:** 7.17.4

**Security:** Requires a user assigned with the Administer Platform role.

**Usage:** DELETE \${baseUrl}/access/api/v1/projects/{project\_key}

**Produces:** application/json

**Parameters:**

Workers	Webhooks
project_key * string Synchronous	Asynchronous / background notifications

**Header parameter:** Authorization: Bearer

**Sample Response:**

Removed

#### 4.13.7 | Get Project Users

**Description:** Returns all users associated with the project.

**Since:** 7.17.4

**Security:** Requires a user assigned with the Administer Platform role or Project Admin permissions if admin\_privileges.manage\_resources is enabled.

**Usage:** GET \${baseUrl}/access/api/v1/projects/{project\_key}/users

**Produces:** application/json; charset=UTF-8

**Parameters:**

Name	Description
project_key * string (path)	The project key

**Header parameter:** Authorization: Bearer

**Sample Response:**

```
[  
 {  
   "name": "memberName",  
   "roles": [  
     "developer"  
   ]  
 }  
]
```

#### 4.13.8 | Get Project User

**Description:** Returns the requested user associated with the project.

**Since:** 7.17.4

## JFrog REST APIs Displayed in the header

**Security:** Requires a user assigned with the 'Administer the Platform' role or Project Admin permissions if admin\_privileges.manage\_resources is enabled.

**Usage:** GET \${baseUrl}/access/api/v1/projects/{project\_key}/users/{user}

**Produces:** application/json; charset=UTF-8

**Parameters:**

Name	Description
project_key * string (path)	The project key
user * string (path)	The user's name

**Header parameter:** Authorization: Bearer

**Sample Response:**

```
{  
  "name": "memberName",  
  "roles": [  
    "developer"  
  ]  
}
```

### 4.13.9 | Add or Update User in Project

**Description:** Adds or updates a user in a project.

**Since :** 7.17.4

**Security:** Requires a user assigned with the 'Administer the Platform' role or Project Admin permissions if admin\_privileges.manage\_resources is enabled.

**Usage:** PUT \${baseUrl}/access/api/v1/projects/{project\_key}/users/{user}

**Produces:** application/json

**Parameters:**

Name	Datatype	Description
project_key	string	The project key
user	string	The user's name

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Name	Datatype	Description
body	JSON	User object that needs to be added

**Header parameter:** Authorization: Bearer

**Sample Request:**

```
{  
  "name": "memberName",  
  "roles": [  
    "developer"  
  ]  
}
```

**Sample Response:**

```
{  
  "name": "memberName",  
  "roles": [  
    "developer"  
  ]  
}
```

### 4.13.10 | Delete Existing Project's User

**Description:** Deletes an existing project's user.

**Since:** 7.17.4

**Security:** Requires a user assigned with the 'Administer the Platform' role or Project Admin permissions if admin\_privileges.manage\_resources is enabled.

**Usage:** DELETE \${baseUrl}/access/api/v1/projects/{project\_key}/users/{user}

**Produces:** application/json

**Parameters:**

Name	Description
project_key *	The project key
string (path)	
user *	The user's name
string (path)	

**Header parameter:** Authorization: Bearer

**Sample Response:**

Removed

#### 4.13.11 | Get Projects Groups

**Description:** Returns all groups associated with the project.

**Since:** 7.17.4

**Security:** Requires a user assigned with the 'Administer the Platform' role or Project Admin permissions if `admin_privileges.manage_resources` is enabled.

**Usage:** GET  `${baseUrl}/access/api/v1/projects/{project_key}/groups`

**Produces:** application/json; charset=UTF-8

**Parameters:**

Name	Description
<code>project_key</code> *	The project key string (path)

**Header parameter:** Authorization: Bearer

**Sample Response:**

```
[  
 {  
   "name": "memberName",  
   "roles": [  
     "developer"  
   ]  
 }  
]
```

#### 4.13.12 | Get Projects Group

**Description:** Returns the requested group associated with the project.

**Since:** 7.17.4

**Security:** Requires a user assigned with the 'Administer the Platform' role or Project Admin permissions if `admin_privileges.manage_resources` is enabled.

**Usage:** GET  `${baseUrl}/access/api/v1/projects/{project_key}/groups/{group}`

**Produces:** application/JSON; charset=UTF-8

**Parameters:**

Name	Description
<code>project_key</code> *	The project key string (path)

Name	Description
group *	The group's name
string (path)	

**Header parameter:** Authorization: Bearer

**Sample Response:**

```
{  
  "name": "memberName",  
  "roles": [  
    "developer"  
  ]  
}
```

#### 4.13.13 | Update Group in Project

**Description:** Updates the group in the project.

**Since:** 7.17.4

**Security:** Requires a user assigned with the 'Administer the Platform' role or Project Admin permissions if admin\_privileges.manage\_resources is enabled.

**Usage:** PUT \${baseUrl}/access/api/v1/projects/{project\_key}/groups/{group}

**Produces:** application/JSON

**Parameters:**

Name	Description
project_key *	The project key
string (path)	
group *	The group's name
string (path)	
body *	group object that needs to be added
(body)	

**Header parameter:** Authorization: Bearer

**Sample Request:**

```
{  
    "name": "memberName",  
    "roles": [  
        "developer"  
    ]  
}
```

**Sample Response:**

Updated group

#### 4.13.14 | Delete Existing Project's Group

**Description:** Deletes the existing project group.

**Since:** 7.17.4

**Security:** Requires a user assigned with the 'Administer the Platform' role or Project Admin permissions if admin\_privileges.manage\_resources is enabled.

**Usage:** DELETE \${baseUrl}/access/api/v1/projects/{project\_key}/groups/{group}

**Produces:** application/json

**Parameters:**

Name	Description
project_key * string (path)	The project key
group * string (path)	The group's name

**Header parameter:** Authorization: Bearer

**Sample Response:**

Removed

#### 4.13.15 | Get Roles List

**Description:** Returns all project roles.

**Since:** 7.17.4

**Security:** Requires a user assigned with the 'Administer the Platform' role or Project Admin permissions if admin\_privileges.manage\_resources is enabled.

**Usage:** GET /v1/projects/{project\_key}/roles

**Produces:** application/json; charset=UTF-8

**Parameters:**

Name	Description
project_key * string (path)	The project key

**Header parameter:** Authorization: Bearer

**Sample Response:**

```
[
  {
    "name": "senior developer",
    "actions": [
      "READ_REPOSITORY"
    ],
    "type": "CUSTOM",
    "environments": [
      "DEV"
    ]
  }
]
```

#### 4.13.16 | Create Role

**Description:** Adds a new role to the project.

**Since:** 7.17.4

**Security:** Requires a user assigned with the 'Administer the Platform' role or Project Admin permissions if admin\_privileges.manage\_resources is enabled.

**Usage:** POST /v1/projects/{project\_key}/roles

**Produces:** application/json

**Parameters:**

Name	Description
project_key * string (path)	The project key
body * (body)	role object that needs to be added

**Header parameter:** Authorization: Bearer

**Sample Request:**

```
{
  "name": "senior developer",
```

```
"actions": [  
    "READ_REPOSITORY"  
,  
    "type": "PREDEFINED",  
    "environments": [  
        "DEV"  
    ]  
}
```

**Sample Response:**

```
{  
    "name": "senior developer",  
    "actions": [  
        "READ_REPOSITORY"  
,  
        "type": "CUSTOM",  
        "environments": [  
            "DEV"  
        ]  
}
```

#### 4.13.17 | Get Project Role

**Description:** Returns the requested project role.

**Since:** 7.17.4

**Security:** Requires a user with Project Admin or a users assigned with the 'Administer the Platform' role.

**Usage:** GET /v1/projects/{project\_key}/roles/{role}

**Produces:** application/json; charset=UTF-8

**Parameters:**

Name	Description
project_key * string (path)	The project key
role * string (path)	The role name

**Header parameter:** Authorization: Bearer

**Sample Response:**

```
{  
    "name": "senior developer",  
    "actions": [  
        "READ_REPOSITORY"  
,  
        "type": "CUSTOM",  
        "environments": [  
            "DEV"  
        ]  
}
```

```
    ]  
}
```

#### 4.13.18 | Update an Existing Project Role

**Description:** Updates an existing project role.

**Since:** 7.17.4

**Security:** Requires a user assigned with the 'Administer the Platform' role or Project Admin permissions if admin\_privileges.manage\_resources is enabled.

**Usage:** PUT /v1/projects/{project\_key}/roles/{role}

**Produces:** application/json

**Parameters:**

Name	Description
project_key *	The project key
string (path)	
role *	The role name
string (path)	
body *	Role to be edited
(body)	

**Header parameter:** Authorization: Bearer

**Sample Request:**

```
{  
  "name": "senior developer",  
  "actions": [  
    "READ_REPOSITORY"  
,  
  ],  
  "type": "PREDEFINED",  
  "environments": [  
    "DEV"  
,  
  ]  
}
```

**Sample Response:**

```
{  
  "name": "senior developer",  
  "actions": [  
    "READ_REPOSITORY"  
,  
  ],  
  "type": "CUSTOM",  
  "environments": [  
    "DEV"  
]
```

```
]  
}
```

#### 4.13.19 | Delete an Existing Role

**Description:** Deletes an existing project role.

**Since:** 7.17.4

**Security:** Requires a user assigned with the 'Administer the Platform' role or Project Admin permissions if admin\_privileges.manage\_resource is enabled.

**Usage:** DELETE /v1/projects/{project\_key}/roles/{role}

**Produces:** application/json

**Parameters:**

Name	Description
project_key * string (path)	The project key
role * string (path)	The role name

**Header parameter:** Authorization: Bearer

**Sample Response:**

Deleted

#### 4.13.20 | Move Repository in a Project

**Description:** If not assigned, assigns a repository to a project. If already assigned, moves the project repository to the specified location, and unassigns the repository from the previous project.

**Note**

When you assign a resource to a project, the project owns and manages the resource. When you share a resource with a project, the project does not own the resource.

**Since:** 7.17.4

**Security:** Requires a user assigned with the 'Administer the Platform' role.

**Usage:** PUT \${baseUrl}/access/api/v1/projects/\_/attach/repositories/{repo\_name}/{target\_project\_key}?force=true/false

**Produces:** application/json

**Parameters :**

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Name	Description
target_project_key * string (path)	The project key
repo_name * (path)	The repository name
force (query)	Indicates a force move if the repo_name is already assigned to an actual project

**Header parameter:** Authorization: Bearer

## Sample Request

```
curl --location --request PUT '${baseUrl}/access/api/v1/projects/_/attach/repositories/{repo_name}/{target_project_key}?force=true/false' \
--header 'Authorization: Bearer <a valid access-token>'
```

## Sample Response

Moved

## 4.13.21 | Get Status of Project Repository

**Description:** Returns the status of a repository and whether it was assigned and/or shared to a project, to multiple projects, or to all projects.

### Note

When you assign a resource to a project, the project owns and manages the resource. When you share a resource with a project, the project does not own the resource.

**Since:** 7.90.0

**Security:** Requires a user with 'Administer Platform' role.

**Usage:** GET \${baseUrl}/v1/projects/\_/repositories/{repo\_name}

**Produces:** application/json; charset=UTF-8

**Header parameter:** Authorization: Bearer

**Parameters:**

Name	Description
repo_name * string (path)	The repository name

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## Sample Request:

```
curl -X GET "${baseUrl}/access/api/v1/projects/_/repositories/${repo_name}" -H "accept: application/json -H 'Authorization: Bearer <a valid access-token>"
```

## Sample Response:

```
{  
  "resource_name": "repoName",  
  "environments": ["DEV", "PROD"],  
  "shared_with_projects": ["projectKey2", "projectKey3"],  
  "shared_with_all_projects": false,  
  "shared_read_only": false  
  "assigned_to": "projectKey1",  
}
```

## Success Response Codes:

**200**: Success (returns response).

## Error Response Codes:

**401** Unauthorized (user not authenticated).

**404** Forbidden (user not authorized to access the resource).

**404** Not found (repository does not exist).

## 4.13.22 | Share Repository with All Projects

**Description:** Shares a local or remote repository across all the Projects allowing members in more than one Project to have access to the repository. Project Members are granted actions to the shared repository according to their Roles and Role actions assigned in the target Project.

### Note

When you assign a resource to a project, the project owns and manages the resource. When you share a resource with a project, the project does not own the resource.

**Since:** 7.15.3

**Security:** Requires a user assigned with the 'Administer the Platform' role.

**Usage:** PUT /v1/projects/\_/share/repositories/{repo\_name}

### Parameters:

Name	Description
repo_name * string (path)	The repository name

**Header parameter:** Authorization: Bearer

## Sample Request:

```
curl -X PUT "${baseUrl}/access/api/v1/projects/_/share/repositories/${repo_name}" -H "accept: application/json -H 'Authorization: Bearer <a valid access-token>"
```

## Sample Response:

Shared

#### 4.13.23 | Unshare Repository with All Projects

**Description:** Unshares a shared local or remote repository. The repository is not deleted but remains assigned to the source repository.

**Since:** 7.15.3

**Security:** Requires a user assigned with the 'Administer the Platform' role.

**Usage:** `DELETE /v1/projects/_/share/repositories/{repo_name}`

**Parameters:**

Name	Description
<code>repo_name *</code> string (path)	The repository name

**Header parameter:** Authorization: Bearer

**Sample Request:**

```
curl -X DELETE "${baseUrl}/access/api/v1/projects/_/share/repositories/${repo_name}" -H "accept: application/json" -H "Authorization: Bearer <a valid access-token>"
```

**Sample Response:**

UnShared

#### 4.13.24 | Share Repository with Target Project

**Description:** Shares a local or remote repository with a specific target Project. Project Members of the target project are granted actions to the shared repository according to their Roles and Role actions assigned in the target Project.

**Note**

When you assign a resource to a project, the project owns and manages the resource. When you share a resource with a project, the project does not own the resource.

**Since:** 7.15.3

**Security:** Requires a platform administrator.

**Usage:** `PUT /v1/projects/_/share/repositories/{repo_name}/{target_project_key}`

Name	Description
<code>repo_name *</code> string (path)	The repository name

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Name	Description
target_project_key * (path)	The project key

### Query Parameters:

Name	Description
readOnly	When set to true the target project has read-only access to the repository and cannot modify its content.

### Sample Request: Header parameter: Authorization: Bearer

```
curl -X PUT "${baseUrl}/access/api/v1/projects/_/share/repositories/${repo_name}/${target_project_key}" -H "accept: application/json" -H 'Authorization: Bearer <a valid access-token>'
```

### Sample Response:

Shared

## 4.13.25 | Unshare Repository with Target Project

**Description:** Unshares a local or remote repository with a specific target Project.

**Since:** 7.15.3

**Security:** Requires a user assigned with the 'Administer the Platform' role.

**Usage:** DELETE /v1/projects/\_/share/repositories/{repo\_name}/{target\_project\_key}

Name	Description
repo_name * string (path)	The repository name
target_project_key * (path)	The Project Key

### Sample Request:

```
curl -X DELETE "${baseUrl}/access/api/v1/projects/_/share/repositories/${repo_name}/${target_project_key}" -H "accept: application/json" -H 'Authorization: Bearer <a valid access-token>'
```

### Sample Response: Header parameter: Authorization: Bearer

Shared

#### 4.13.26 | Unassign a Project from a Repository

**Description:** Unassigns a project from a repository.

**Notes:** You can assign a Project to a repository using the Move Repository command.

**Since:** 7.17.1

**Security:** Requires a user assigned with the 'Administer the Platform' role or Project Admin permissions if `admin_privileges.manage_resource` is enabled.

**Usage:** `DELETE ${baseUrl}/access/api/v1/projects/_/attach/repositories/{repo_name}`

**Parameters:**

Name	Description
baseURL	
repo_name (path)	The repository name

**Sample Request: Header parameter:** Authorization: Bearer

```
curl --location --request DELETE '${baseUrl}/access/api/v1/projects/_/attach/repositories/{repo_name}' \
--header 'Authorization: Bearer <a valid access-token>'
```

**Sample Response:**

204

## 4.14 | GLOBAL ROLES

### 4.14.1 | Create a Custom Global Role

**Description:** Create a new custom global role.

**Since:** 7.77

**Security:** Bearer access token authentication is required.

**Usage:** `POST ${baseUrl}/access/api/v1/roles`

**Produces:** application/json

**Sample Request:**

```
{
  "name": "senior developer",
  "actions": [
    "READ_REPOSITORY"
  ],
  "type": "CUSTOM_GLOBAL",
  "environments": [
    "DEV"
  ]
}
```

**Success Response Codes**

**201:** OK response.

#### Error Response Codes

**400:** The request payload is malformed.

**401:** Invalid credentials

**403:** Insufficient permissions.

**404:** Not found.

#### 4.14.2 | Get All Custom Global Roles

**Description:** Get all of the custom global roles.

**Since:** 7.77

**Security:** Bearer access token authentication is required.

**Usage:** GET \${baseUrl}/access/api/v1/roles/

**Produces:** application/json; charset=UTF-8

#### Success Response Codes

**200:** Success.

#### Error Response Codes

**401:** Invalid credentials

**403:** Insufficient permissions.

#### 4.14.3 | Get a Specific Custom Global Role

**Description:** Get a specified custom global role.

**Since:** 7.77

**Security:** Bearer access token authentication is required.

**Usage:** GET \${baseUrl}/access/api/v1/roles/{role}

**Produces:** application/json; charset=UTF-8

#### Success Response Codes

**201:** OK response.

#### Error Response Codes

**401:** Invalid credentials

**403:** Insufficient permissions.

#### 4.14.4 | Edit a Global Role

**Description:** Update an existing custom or predefined global role.

**Since:** 7.77

**Security:** Bearer access token authentication is required.

**Usage:** PUT \${baseUrl}/access/api/v1/roles/{role}

**Produces:** application/json

**Sample Request:**

```
{  
  "name": "senior developer",  
  "actions": [  
    "READ_REPOSITORY"  
,  
  "type": "PREDEFINED",  
  "environments": [  
    "DEV"  
  ]  
}
```

**Success Response Codes**

**200:** Success.

**Error Response Codes**

**400:** The request payload is malformed.

**401:** Invalid credentials

**403:** Insufficient permissions.

**404:** Not found.

#### 4.14.5 | Delete a Custom Global Role

**Description:** Deletes an existing custom global role.

**Since:** 7.77

**Security:** Bearer access token authentication is required.

**Usage:** DELETE \${baseUrl}/access/api/v1/roles/{role}

**Produces:** application/json

**Success Response Codes**

**204:** Success.

**Error Response Codes**

**400:** The request payload is malformed.

**401:** Invalid credentials

**403:** Insufficient permissions.

**404:** Not found.

#### 4.15 | Workers REST APIs

- Create Worker
- Get Workers
- Get Specified Worker
- Get Available Actions
- Execute an HTTP-Triggered Worker
- Update Worker
- Execute Test
- Workers Service Readiness
- Workers Service Liveness
- Get Worker Execution History
- Delete Worker
- Execute an HTTP-Triggered Worker

#### 4.15.1 | Create Worker

**Description:** Creates a worker service.

**Since:** 7.63.2

**Security:** Platform Admin, Project Admin (for Project Admin, the **projectKey** query parameter must be set and match the one in the Worker request body).

**Usage:** POST /worker/api/v1/workers

**Produces:** no-data

**Header parameter:** Authorization: Bearer

#### HTTP Request Payload Parameters

Parameter	Datatype	Mandatory	Description
key	string	Yes	The unique ID of the worker.
description	string	No	Description of the worker.
enabled	boolean	Yes	Whether to enable the worker immediately after creation.  The default value is <b>true</b> .  You can also set the value as <b>false</b> and enable the worker afterwards.
sourceCode	string	Yes	The worker script in TypeScript or JavaScript.
action	enum string	Yes	You use the same API to create all the workers. You differentiate between the type

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Parameter	Datatype	Mandatory	Description
filterCriteria	object	Mandatory if enabled is set as <b>true</b>	<p>of worker created using the action parameter. Choose from the list of worker actions with which the worker is associated. Find the list of actions here.</p> <p>This parameter defines the repositories to be used or excluded for most workers.</p> <pre>filterCriteria: {     artifactFilterCriteria: {         excludePatterns: undefined   string[],         // If provided, the worker is triggered only if the artifact path does NOT match any of the given patterns         includePatterns: undefined   string[],         // If provided, the worker is triggered only if the artifact path matches one of the given patterns         repoKeys: string[],         // The list of repositories that are allowed to trigger this worker     } }</pre> <p>For scheduled workers, this parameter defines the schedule details:</p> <pre>filterCriteria: {     schedule: {         cron: string, // Cron expression to schedule the worker         timezone: undefined   string // If provided, schedule is applied in the selected timezone     } }</pre>
artifactFilterCriteria.repoKeys[]		Mandatory if filterCriteria is mandatory	<p>Defines which repositories are used when an action event occurs to trigger the worker.</p> <p>You must provide at least one repository.</p> <pre>artifactFilterCriteria: {     repoKeys: string[], // The list of repositories that are</pre>

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Parameter	Datatype	Mandatory	Description
artifactFilterCriteria.includePatterns	string[]	No	<p>allowed to trigger this worker</p> <pre>} // If provided, the worker is triggered only if the artifact path matches one of the given patterns</pre>
artifactFilterCriteria.excludePatterns	string[]	No	<p>Define patterns to match all repository paths for repositories identified in the repoKeys. Defines those repositories that trigger the worker.</p> <pre>artifactFilterCriteria: {     includePatterns:         undefined   string[],         // If provided, the worker is triggered only if the artifact path matches one of the given patterns     }      excludePatterns:         undefined   string[],         // If provided, the worker is triggered only if the artifact path does NOT match any of the given patterns     } </pre> <p>Define patterns to for all repository paths for repositories to be excluded in the repoKeys. Defines those repositories that do not trigger the worker.</p> <pre>artifactFilterCriteria: {     excludePatterns:         undefined   string[],         // If provided, the worker is triggered only if the artifact path does NOT match any of the given patterns     } </pre>
secrets	object	No	<p>The secrets to be added to the worker.</p> <p>You must provide the secret in the following format.</p> <pre>{     "key": string,     "value": string }</pre>
shared	boolean	No	If <b>TRUE</b> , the Worker can be run by non-admin users. This is only relevant for Workers of type <b>GENERIC_EVENT</b> .

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Parameter	Datatype	Mandatory	Description
debug	boolean	No	If <b>TRUE</b> , status information and run history will be saved whether or not the Worker runs successfully.
projectKey	string	No	If set, this Worker will be available in the scope of the given project (editable by platform admin and project admin). If not set, this Worker will be global and only editable by platform admin.
schedule.cron	string	mandatory for scheduled workers	If set, only actions that are compatible with projects are returned. If a project admin token is used, this query parameter is required and the user must have the role project admin for the project, otherwise an HTTP error 403 is returned. Once set, the projectKey cannot be changed.
schedule.timezone	string	No	The cron expression that sets the schedule of worker execution. For example, 0 2 * * * executes the worker every day at 02:00 AM. The minimum recurrent time for worker execution is 1 minute.

## Sample Usage

```
curl -X POST 'https://myserver.com/worker/api/v1/workers'
Ok
```

## Sample Request

```
{
  "key": string,
  "description": string,
  "enabled": boolean,
  "sourceCode": string,
  "action": string,
  "filterCriteria": {
    "artifactFilterCriteria": {
      "includePatterns": undefined | string[],
      "excludePatterns": undefined | string[],
      "repoKeys": string[]
    }
  }
}
```

```
        }
    },
    "secrets": undefined | Secret[],
    "shared": boolean,
    "debug": boolean,
    "projectKey": undefined | string
}
```

### Sample Response

```
{
  "logs": string, // All logs generated by the worker's script appear in one line.
  "beforeDownload": { // The type of action.
    "status": DownloadStatus, // The status returned by the worker script itself.
    "message": string, // The message returned by the worker script.
    "executionStatus": "STATUS_SUCCESS" // Execution status for the worker service.
  }
}
```

### Secret Type

```
{
  "key": string, // The name of the secret.
  "value": string // The value of the secret.
}
```

### Action Usage

```
{
  enum Action {
    BEFORE_DOWNLOAD,
    AFTER_DOWNLOAD,
    BEFORE_UPLOAD,
    AFTER_CREATE
  }
}
```

Success Response Codes:

**201:** OK response.

### Error Response Codes:

**400** The request payload is malformed.

**401** Invalid credentials.

**403** Insufficient permissions.

**409** Conflict with workerKey.

## 4.15.2 | Get Workers

**Description:** Gets a list of worker services, or a filtered list of worker services associated with a specific action. To get a specific worker by workersKey, see [Get Specified Worker](#).

**Since:** 7.63.2

**Security:** Admin user, project-admin or non-admin if the Worker is of Generic Event type and has been shared with non-admin users.

**Usage:** GET /worker/api/v1/workers

**Produces:** application/json; charset=utf-8

**Header parameter:** Authorization: Bearer

### Sample Usage

```
curl -X GET 'https://myserver.com/worker/api/v1/workers'
```

### Query Parameters

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Name	Datatype	Mandatory	Description
action	string	No	If an action is provided, only workers associated with the given action will be returned, otherwise the full list is returned. See <a href="#">worker actions</a> .
keysOnly	boolean	No	If true only the list of worker keys will be returned, otherwise a list of workers will be returned.  Default: false
projectKey	string	No	If set, this Worker will be available in the scope of the given project (editable by platform admin and project admin). Otherwise this Worker will be global and only editable by platform admin. Once set, the projectKey cannot be changed.

## Sample Query 1

```
GET 'https://myserver.com/worker/api/v1/workers?action=BEFORE_DOWNLOAD&keysOnly=trueworkers'
```

## Sample Response 1

```
{
  "keys": [
    "Worker1",
    "Worker2",
    ...
    "WorkerN"
  ]
}
```

## Sample Query 2

```
GET 'https://myserver.com/worker/api/v1/workers'
```

## Sample Response 2

```
{
  "workers": [
    {
      "key": string,
      "description": string,
      "enabled": boolean,
      "sourceCode": string,
      "action": string,
      "filterCriteria": {
        "artifactFilterCriteria": {
          "repoKeys": [
            "repo1",
            "Repo2"
          ],
          "includePatterns": undefined | string[],
          "excludePatterns": undefined | string[]
        }
      },
      "secrets": Secret[]
    }
  ]
}
```

## Success Response Codes:

**200:** Ok successful.

## Error Response Codes:

**400** The request payload is malformed.

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**401** Invalid credentials.

**403** Insufficient permissions.

## Error Response

```
{  
  "errors": [  
    {  
      "status": number // The HTTP error status code  
      "message": string // The reason of the error  
    }  
  ]  
}
```

### 4.15.3 | Get Specified Worker

**Description:** Gets a specified worker service by workerKey.

**Since:** 7.63.2

**Security:** Admin user, project-admin or non-admin if the Worker is of Generic Event type and has been shared with non-admin users.

**Usage:** GET /worker/api/v1/workers/{workerKey}

**Produces:** application/json; charset=utf-8

**Header parameter:** Authorization: Bearer

## Parameters

Parameter	Datatype	Mandatory	Description
projectKey	string	No	If set, this Worker will be available in the scope of the given project (editable by platform admin and project admin). If not set, this Worker will be global and only editable by the platform admin.  If set, this Worker will be available in the scope of the given project (editable by platform admin and project admin). Otherwise this Worker will be global and only editable by platform admin. Once set, the projectKey cannot be changed.

## Sample Usage

```
curl -X GET 'https://myserver.com/worker/api/v1/workers/{workerKey}'  
Ok
```

## Sample Response

```
{  
  "key": string,  
  "description": string,  
  "enabled": boolean,
```

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```
"sourceCode": string,  
"action": string,  
"filterCriteria": {  
    "artifactFilterCriteria": {  
        "repoKeys": [  
            "repo1",  
            "Repo2"  
        ],  
    },  
},  
"secrets": undefined | Secret[]  
}
```

## Secret Type

```
{  
    "key": string, // The name of the secret.  
    "value": string // The value of the secret.  
}
```

## Defining Action

```
{  
    enum Action {  
        BEFORE_DOWNLOAD,  
        AFTER_DOWNLOAD,  
        BEFORE_UPLOAD,  
        AFTER_CREATE  
    }  
}
```

## Success Response Codes:

**200:** OK successful.

## Error Response Codes:

**400** The request payload is malformed.

**401** Invalid credentials.

**403** Insufficient permissions.

**404** Worker does not exist.

## Error Response

```
{  
    "errors": [  
        {  
            "status": number // The HTTP error status code  
            "message": string // The reason of the error  
        }  
    ]  
}
```

## 4.15.4 | Get Available Actions

**Description:** Returns all available actions with which you can associate worker services. Availability depends on user subscriptions.

**Since:** 7.63.2

**Security:** Platform Admin, Project Admin (for Project Admin, the **projectKey** query parameter must be set).

**Usage:** GET /worker/api/v1/actions

**Produces:** application/json; charset=utf-8

**Header parameter:** Authorization: Bearer

## Parameters

# JFrog REST APIs Displayed in the header

Parameter	Datatype	Mandatory	Description
projectKey	string	No	If set, only actions that are compatible with projects are returned. If a project admin token is used, this query parameter is required and the user must have the role project admin for the project, otherwise an HTTP error 403 is returned. The projectKey cannot be changed.

## Sample Usage

```
curl -X GET 'https://myserver.com/worker/api/v1/actions'  
Ok
```

## Sample Response

```
[  
    "BEFORE_DOWNLOAD",  
    "AFTER_DOWNLOAD",  
    "BEFORE_UPLOAD",  
    "AFTER_CREATE",  
]
```

## Success Response Codes:

**200:** OK response.

## Error Response Codes:

**401** Invalid credentials.

**403** Insufficient permissions.

## 4.15.5 | Update Worker

**Description:** Updates a worker service.

**Since:** 7.63.2

**Security:** Platform Admin, Project Admin (for Project Admin, the **projectKey** query parameter must be set).

**Usage:**PUT /worker/api/v1/workers

**Produces:** no-data

**Header parameter:** Authorization: Bearer

## Sample Usage

```
curl -X PUT 'https://myserver.com/worker/api/v1/workers'  
Ok
```

## Sample Request

```
{  
    "key": string,  
    "description": string,  
    "enabled": boolean,  
    "sourceCode": string,  
    "action": string,
```

# JFrog REST APIs

## Displayed in the header

```
"filterCriteria": {
  "artifactFilterCriteria": {
    "includePatterns": undefined | string[],
    "excludePatterns": undefined | string[],
    "repoKeys": string[]
  }
},
"secrets": undefined | Secret[]
}
```

### Parameters

Parameter	Datatype	Mandatory	Description
key	string	Yes	The unique ID of the worker.
description	string	No	Description of the worker.
enabled	boolean	Yes	Whether to enable the worker immediately after creation.  The default value is <b>true</b> .  You can also set the value as <b>false</b> and enable the worker afterwards.
sourceCode	string	Yes	The worker script in TypeScript or JavaScript.
action	enum string	Yes	Choose one of the following worker actions with which the worker is associated. <ul style="list-style-type: none"> <li>• BEFORE_DOWNLOAD</li> <li>• AFTER_DOWNLOAD</li> <li>• BEFORE_UPLOAD</li> <li>• AFTER_CREATE</li> <li>• AFTER_BUILD_INFO_SAVE</li> <li>• AFTER_MOVE</li> </ul>
filterCriteria	object	Mandatory if enabled is set as <b>true</b> .	Defines which repositories are used or excluded. <pre>filterCriteria: {   artifactFilterCriteria: {     excludePatterns:       undefined   string[], // If provided, the worker will be triggered only if the artifact path does NOT match any of the given patterns     includePatterns:   } }</pre>

# JFrog REST APIs

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Parameter	Datatype	Mandatory	Description
artifactFilterCriteria.repoKeys	string[]	Mandatory if filterCriteria is mandatory	<pre>undefined   string[], // If provided, the worker will be triggered only if the artifact path matches one of the given patterns repoKeys: string[], // The list of repositories that are allowed to trigger this worker }</pre> <p>Defines which repositories are used when an action event occurs to trigger the worker.</p> <p>You must provide at least one repository.</p> <pre>artifactFilterCriteria: {     repoKeys: string[],     // The list of repositories that are allowed to trigger this worker }</pre>
artifactFilterCriteria.includePatterns	string[]	No	<p>Define patterns to match all repository paths for repositories identified in the repoKeys. Defines those repositories that trigger the worker.</p> <pre>artifactFilterCriteria: {     includePatterns:         undefined   string[], // If provided, the worker will be triggered only if the artifact path matches one of the given patterns }</pre>
artifactFilterCriteria.excludePatterns	string[]	No	<p>Define patterns to for all repository paths for repositories to be excluded in the repoKeys. Defines those repositories that do not trigger the worker.</p> <pre>artifactFilterCriteria: {     excludePatterns:         undefined   string[], // If provided, the worker will be triggered only if the artifact path does NOT match any of the given patterns }</pre>

# JFrog REST APIs Displayed in the header

Parameter	Datatype	Mandatory	Description
secrets	object	No	<p>The secrets to be added to the worker.</p> <p>You must provide the secret in the following format.</p> <pre>{   "key": string,   "value": string }</pre>
shared	boolean	No	If <b>TRUE</b> , the Worker will be able to be executed by non-admin users. This is only relevant for Workers of type <b>GENERIC_EVENT</b> .
debug	boolean	No	If <b>TRUE</b> , the successful execution for this Worker will also be historized.
projectKey	string	No	<p>If set, this Worker will be available in the scope of the given project (editable by platform admin and project admin). Otherwise this Worker will be global and only editable by platform admin.</p> <p>If set, only actions that are compatible with projects are returned. If a project admin token is used, this query parameter is required and the user must have the role <b>project admin</b> for the project, otherwise an HTTP error 403 is returned. Once set, the <b>projectKey</b> cannot be changed.</p>

## Sample Response

```
{
  "logs": string, // All logs generated by the worker's script appear in one line.
  "beforeDownload": { // The type of action.
    "status": DownloadStatus, // The status returned by the worker script itself.
    "message": string, // The message returned by the worker script.
    "executionStatus": "STATUS_SUCCESS" // Execution status for the worker service.
  }
}
```

## Secret Type

```
{
  "key": string, // The name of the secret.
  "value": string // The value of the secret.
```

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```
"markedForRemoval": boolean // If "true", the secret will be removed, otherwise an upsert will be performed.  
}
```

### Action Usage

```
{  
    enum Action {  
        BEFORE_DOWNLOAD,  
        AFTER_DOWNLOAD,  
        BEFORE_UPLOAD,  
        AFTER_CREATE  
    }  
}
```

### Success Response Codes:

**204:** Worker service successfully updated.

### Error Response Codes:

**400** The request payload is malformed.

**401** Invalid credentials.

**403** Insufficient permissions.

**404** Worker does not exist.

### 4.15.6 | Execute Test

**Description:** Test a new or existing worker.

**Since:** 7.63.2

**Security:** Admin authentication is required.

**Usage:** POST /worker/api/v1/test/[/{workerKey}]

**Produces:** application/json; charset=utf-8

**Header parameter:** Authorization: Bearer

### Parameters

Name	Datatype	Mandatory	Description
code	string	Yes	The worker script in TypeScript or JavaScript.
action	enum string	Yes	Select the worker actions with which the worker is associated.
data	object	Yes	An object that matches the action's event data. The object should match the action that you chose.
stagedSecrets	string	No	The secrets to be made available during the test.

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Name	Datatype	Mandatory	Description
			If testing an existing worker, its secrets will be made available during the test.

### Query Parameters

Name	Datatype	Mandatory	Description
workerKey	string	No	If provided, identifies an existing worker to be tested.
stagedSecrets	string	No	The secrets to be made available during the test.
projectKey	string	No	If testing an existing worker, its secrets will be made available during the test.  If a project admin token is used, this query parameter is required and the user must have the role project admin for the project, otherwise a HTTP error 403 is returned.

### Sample Usage

```
curl -X POST 'https://myserver.com/worker/api/v1/system/test'
Ok
```

### Sample Request

```
{
  "code": string,
  "action": string,
  "data": object, // action specific payload
  "stagedSecrets": undefined | Secret[]
}
```

### Sample Response

```
{
  "logs": string, // All logs generated by the worker's script appear in one line.
  "beforeDownload": { // The type of action.
    "status": DownloadStatus, // The status returned by the worker script itself.
    "message": string, // The message returned by the worker script.
    "executionStatus": "STATUS_SUCCESS" // Execution status for the worker service.
  }
}
```

### Secret Type

Define the secret type:

```
{
  "key": string, // The name of the secret.
```

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```
    "value": string // The value of the secret.  
}
```

When testing an existing worker, identified by a workerKey, it is not possible to change the value of an existing secret.

If a staged secret is similar to an existing one, the secret should be marked for removal and then added with a new value, as in the following example.

```
{  
  "stagedSecrets": [  
    { "key": "my-secret-0", markedForRemoval: true },  
    { "key": "my-secret-0", "value": "new-value-of-my-secret-0" }  
  ]  
}
```

### Success Response Codes:

**200**: OK response.

### Error Response Codes:

**400** The request payload is malformed.

**401** Invalid credentials.

**403** Insufficient permissions.

**422** Error occurs when the worker service cannot encrypt a secret.

**500** Error occurred during the request processing.

### Sample Errors

#### Request Error

```
{  "errors":  
  [  
    {  
      "status": number, // HTTP Error status code  
      "message": string // Reason for error  
    }  
  ]  
}
```

#### Caution

The status should be either STATUS\_SUCCESS or STATUS\_FAIL.

#### Execution Error

```
{  
  "message": string, // This is the message containing the error.  
  "executionStatus": "STATUS_FAIL"  
}
```

## 4.15.7 | Workers Service Readiness

**Description:** Checks whether the service is alive or not.

**Since:** 7.63.2

**Security:** No authentication is required.

**Usage:** GET /worker/api/v1/system/readiness

**Produces:** text/html; charset=utf-8

### Sample Usage

```
curl -X GET 'https://myserver.com/worker/api/v1/system/readiness'  
Ok
```

# JFrog REST APIs Displayed in the header

## Success Response Codes:

**200:** OK response. On SaaS, in multi-tenant mode, the Worker service will always return 200.

## Error Response Codes:

**503** Service is not ready because one of the dependent services is not ready. Only the Access service is required for the Worker service. This status is for single tenant, on premise mode only.

## Sample Error

```
{  "errors": [    {      "status": 503,      "message": "{\"code\": \"UNAVAILABLE\", \"message\": \"One or more of the dependent services/resources have failed\"}"    }  ]}
```

## 4.15.8 | Workers Service Liveness

**Description:** Checks whether the service is alive or not.

**Since:** 7.63.2

**Security:** No authentication is required.

**Usage:** GET /worker/api/v1/system/liveness

**Produces:** text/html; charset=utf-8

## Sample Usage

```
curl -X GET 'https://myserver.com/worker/api/v1/system/liveness'  
Ok
```

## Success Response Codes:

**200** OK response

## 4.15.9 | Get Worker Execution History

**Description:** Get the worker's run history.

**Since:** 7.90

**Security:** Admin user, project-admin or non-admin if the Worker is of Generic Event type and has been shared with non-admin users.

**Usage:** GET /worker/api/v1/execution\_history

**Produces:** application/json; charset=utf-8

**Header parameter:** Authorization: Bearer

## Sample Request

```
{  "workerKey": string,  
  "projectKey": string,  
  "showTestRun": boolean}
```

## Request Parameters

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Parameter	Datatype	Mandatory	Description
workerKey	string	No	If set, it will only return the execution history for the given worker
showTestRun	boolean	No	If true, the test runs will also be returned. Test runs are the ones triggered by a user using the <b>Run</b> button in the Workers online editor or using the <b>Worker Execute Test API</b> .  The default value is <b>false</b> .
projectKey	string	No	If set, only history entries related to Workers attached to the given project will be returned. If a project admin token is used, this query parameter is required and the user must have the role project admin for the project, otherwise a HTTP error 403 is returned.

## Sample Usage

```
curl -X GET 'https://myserver.com/worker/api/v1/execution_history'
```

## Sample Response

```
[
  {
    "workerKey": "my-worker",
    "executionStatus": "STATUS_SUCCESS",
    "workerType": "beforeDownload",
    "executionPayload": {...},
    "executionResult": {
      "result": {...},
      "logs": "[info] - Log line 1\n[info] - Log line 2\n",
      "workerStats": {
        "cpuTimeMillis": 10,
        "topMemoryUsageBytes": 59352936,
        "executionDurationMillis": 22
      }
    },
    "startTimeMillis": 1715942153944,
    "endTimeMillis": 1715942154018,
    "triggeredBy": "artifactory"
  },
  ...
]
```

## Response Parameters

# JFrog REST APIs

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Parameter	Datatype	Description
workerKey	string	The name of the worker (unique ID).
workerType	Action	The action on which the worker is hooked. It is an enum string of Action Enum (see below for available values).
executionStatus	string	Can be either STATUS_SUCCESS or STATUS_FAIL.
executionPayload	object   null	For event driven workers this will be an object containing data about the event that triggered the worker. For manual (http request) workers, it will contain the data passed in the body of the HTTP request. Can be null if the body is not defined.
executionResult.result	object	Contains what the worker returned. In case of an uncaught exception, the result will contain a single property message whose value is the error message.
executionResult.logs	string	Containing the worker's script logs output.
executionResult.workerStats.cpuTimeMillis	number	The total calculation time performed by the worker's script.
executionResult.workersStats.topMemoryUsageBytes	number	The top memory usage for this worker.
executionResult.workerStats.executionDurationMillis	number	The total execution time.
startTimeMillis	number	The time by which the execution started in milliseconds.
endTimeMillis	number	The time by which the execution ended in milliseconds.
triggeredBy	number	Specifies who or what triggered the worker.  For a test run using the <b>Run</b> button in the online Workers editor, the value is testRun (with the username).

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Parameter	Datatype	Description
		For event-driven workers, the service name that triggered the worker is provided.  For Generic Event Workers, the value is the username.

### Error Response

If there is an execution failure, `executionResult.result.message` will contain the error message, `executionResult.result.logs` will be an empty string and `executionResult.result.workerStats` will be an empty object.

```
[  
  {  
    "workerKey": "my-worker",  
    "executionStatus": "STATUS_FAIL",  
    "workerType": "beforeDownload",  
    "executionPayload": {...},  
    "executionResult": {  
      "result": { message: "An error occurred: reason..." },  
      "logs": "",  
      "workerStats": {}  
    },  
    "startTimeMillis": 1715942153944,  
    "endTimeMillis": 1715942154018,  
    "triggeredBy": "artifactory"  
  },  
  ...  
]
```

### Success Response Codes:

**200:** OK response. The execution history returned successfully.

### Error Response Codes:

**401** Invalid credentials.

**403** Insufficient permissions.

**409** Conflict with `workerKey`. Either the worker does not exist (if the `workerKey` query parameter is set) or the history storage is not connected.

### 4.15.10 | Delete Worker

**Description:** Deletes a worker service based on the `workerKey`.

**Since:** 7.63.2

**Security:** Admin user.

**Usage:** `DELETE /worker/api/v1/workers/{workerKey}`

**Produces:** no-data

### Success Response Codes:

**204:** Worker service successfully deleted.

### Error Response Codes:

**401** Invalid credentials.

**403** Insufficient permissions.

404 Worker service does not exist.

#### 4.15.11 | Execute an HTTP-Triggered Worker

**Description:** Executes a worker service of type **GENERIC\_EVENT**.

##### Note

The request body is optional, but must be a valid JSON structure. The request will be injected in the worker script as the second parameter.

The API can retrieve a status when the **executionStatus** property is included in the request body.

The response body will include the worker return value set under the data property. The **executionStatus** property will reflect the execution status and contain either **STATUS\_SUCCESS** or **STATUS\_FAIL**.

**Since:** 7.73.1

**Security:** Platform Admin, Project Admin (must be project admin for the project key defined in the Worker) or any user (if the worker is shared).

**Usage:** POST /worker/api/v1/execute/{workerKey}

**Produces:** application/json; charset=utf-8

**Header parameter:** Authorization: Bearer

##### Parameters

Parameter	Datatype	Mandatory	Description
workerKey	string	Yes	The unique ID of the worker. The worker service must be of type <b>GENERIC_EVENT</b> .

##### Sample Worker

Let's look at a sample worker named **my-worker** that is enabled:

```
type CustomPayload = any;
type CustomResponse = any;
export default async (context: PlatformContext, data: CustomPayload):
Promise<CustomResponse> => {
  return data;
}
```

##### Example 1

##### Sample Usage 1

```
curl -XPOST --location
'https://<JFrogPlatform>/worker/api/v1/execute/my-worker' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <MY-TOKEN>' \
--data '{
  "foo": "bar"
}'
```

##### Sample Response 1

```
{ 
  "data": { 
    "foo": "bar"
  },
}
```

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```
"executionStatus": "STATUS_SUCCESS"  
}
```

### Example 2

#### Sample Usage 2

```
curl -XPOST --location  
'https://<JFrogPlatform>/worker/api/v1/execute/my-worker' \  
--header 'Content-Type: application/json' \  
--header 'Authorization: Bearer <MY-TOKEN>'
```

#### Sample Response 2

```
{  
"executionStatus": "STATUS_SUCCESS"  
}
```

#### Success Response Codes:

**200:** OK response. The worker was successfully executed.

#### Error Response Codes:

**400** The request payload is malformed.

**401** Invalid credentials.

**403** Insufficient permissions.

**404** The worker does not exist.

### 4.15.12 | List of Worker Events

**Description:** Defines the action (event) associated with the worker service. This item is added into the relevant API's payload.

#### action

#### Access Events

- BEFORE\_CREATE\_TOKEN
- BEFORE\_REVOKE\_TOKEN

#### Artifactory Events

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- BEFORE\_DOWNLOAD
- AFTER\_DOWNLOAD
- BEFORE\_PROPERTY\_CREATE
- BEFORE\_UPLOAD
- AFTER\_CREATE
- AFTER\_BUILD\_INFO\_SAVE
- AFTER\_MOVE
- BEFORE\_UPLOAD\_REQUEST
- ALT\_RESPONSE
- ALT\_ALL\_RESPONSES
- ALT\_REMOTE\_PATH
- ALT\_REMOTE\_CONTENT
- BEFORE\_REMOTE\_INFO\_REQUEST
- BEFORE\_REMOTE\_DOWNLOAD
- AFTER\_REMOTE\_DOWNLOAD
- AFTER\_DOWNLOAD\_ERROR
- BEFORE\_DOWNLOAD\_REQUEST
- BEFORE\_CREATE
- BEFORE\_DELETE
- AFTER\_DELETE
- BEFORE\_MOVE
- BEFORE\_COPY
- AFTER\_COPY
- AFTER\_PROPERTY\_CREATE
- BEFORE\_PROPERTY\_DELETE
- AFTER\_PROPERTY\_DELETE
- BEFORE\_BUILD\_INFO\_SAVE
- AFTER\_SAVE
- BEFORE\_FILE\_REPLICATION
- BEFORE\_DIRECTORY\_REPLICATION
- BEFORE\_DELETE\_REPLICATION
- BEFORE\_PROPERTY\_REPLICATION
- BEFORE\_STATISTICS\_REPLICATION

## HTTP Triggered

- GENERIC\_EVENT

## 4.16 | MyJFrog Portal REST APIs

The following are the REST APIs used with MyJFrog Portal.

### 4.16.1 | GET Platform Cloud NAT IPs

**Description:** Get the list of JFrog Cloud Platform NAT IPs. To assure proper communications are established with external services (like LDAP and SSO), you need to whitelist JFrog Platform Cloud NAT IPs on the external service.

**Since:** August 9, 2023

**Security:** Does not require authentication.

**Usage:** GET <https://my.jfrog.com/api/jmis/v1/ip-ranges>

#### Sample Usage

```
curl --location GET 'https://my.jfrog.com/api/jmis/v1/ip-ranges'
```

#### Sample Response

```
{
  "cidr": [
    "34.86.118.153/32",
    "34.145.193.114/32"
  ],
  "region": "us-east4",
  "service": "jfrog_cloud_cidr",
  "cloud": "gcp"
},
{
  "cidr": [
    "35.194.79.117/32",
    "34.150.215.121/32"
  ],
  "region": "us-east4",
  "service": "jfrog_pipelines_build_plane_cidr",
  "cloud": "gcp"
}
```

### 4.16.2 | ALLOWLIST REST API

To use these APIs, you need an access token. Only a Primary Admin can generate MyJFrog tokens. For more information, see Generate a Token in MyJFrog.

#### Note

##### Limitations When Adding IP Addresses

The following limitations apply to adding IPs to the allowlist.

##### Private / Public IP

Any IP addresses that fall in the range below cannot be updated using these APIs. These are IP addresses that are used in private networks, which are not available, or reachable, from the Internet.

The RFC1918 address space includes the following networks:

- 10.0.0.0 – 10.255.255.255 (10/8 prefix)
- 172.16.0.0 – 172.31.255.255 (172.16/12 prefix)
- 192.168.0.0 – 192.168.255.255 (192.168/16 prefix)

##### Maximum IP/CIDR Values

For all allowlists and delete lists combined, the workspace supports a maximum of 2500 IP/CIDR values, where one CIDR counts as a single value.

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## Rate limit

The rate limit is 5 times per hour for actions that result in a successful outcome (for both Post and Delete actions, i.e., for a response code of 200).

### 4.16.2.1 | Get the JPD IP Allowlist

**Description:** Returns the list of IPs in the JPD allowlist

**Since:** January 25, 2023

**Security:** Requires a valid token

**Usage:** GET api/jmis/v1/allowlist/{serverName}

## Note

If your JFrog URL is myserver.jfrog.io, the serverName is myserver.

**Content-Type:** application/json

**Produces:** application/json

## Sample Usage:

```
curl --location --request GET 'https://my.jfrog.com/api/jmis/v1/allowlist/{serverName}' \
--header 'Authorization: Bearer token'
```

## Sample Response:

```
{
  "status": "COMPLETED",
  "ips": [
    {
      "ip": "2.2.2.7/1"
    },
    {
      "ip": "1.1.1.7/1"
    }
  ]
}
```

## Response status codes:

**200** -Success

**401**- Unauthorized user

**403**- User forbidden

### 4.16.2.2 | Add IP to IP Allowlist

**Description:** Adds a new IP or a list of new IPs to the JPD allowlist. The existing IPs in the allowlist are not affected.

**Since:** January 25, 2023

**Security:** Requires a valid token

**Usage:** POST api/jmis/v1/allowlist/{serverName}

**Content-Type:** application/json

**Produces:** application/json

## Sample Usage:

```
curl --location --request POST 'https://my.jfrog.com/api/jmis/v1/allowlist/{serverName}' \
--header 'Authorization: Bearer ' \
--header 'Content-Type: application/json' \
```

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```
--data '{  
"ips": [  
    "2.2.2.7/1",  
    "1.1.1.7/1"  
]  
}'
```

### Sample Response:

```
{  
    "status": "IN_PROGRESS",  
    "message": "Success, the action will take a few minutes to complete",  
    "errors": [  
        {  
            "message": "Existing IPs",  
            "details": [  
                "2.2.2.7/1",  
                "1.1.1.7/1"  
            ]  
        },  
        {  
            "message": "Invalid IPs",  
            "details": [  
                "text"  
            ]  
        }  
    ]  
}
```

### Response status codes:

**200**- Success

**400**- Failed

**409**- Another IP action is in progress (try again in a few minutes)

**403**- Server Blocked / Valid token does not match the server name

**401**- Unauthorized user

**429**- Too many requests

## 4.16.2.3 | Delete IP from IP Allowlist

**Description:** Deletes an IP or list of IPs from the JPD allowlist.

**Since:** January 25, 2023

**Security:** Requires a valid token

**Usage:** `DELETE api/jmis/v1/allowlist/{serverName}`

**Content-Type:** application/json

**Produces:** application/json

### Sample Usage:

```
curl --location --request DELETE 'https://my.jfrog.com/api/jmis/v1/allowlist/{serverName} '\  
--header 'Authorization: Bearer ' \  
--header 'Content-Type: application/json' \  
--data-raw '{  
"ips": [  
    "2.2.2.7/1"  
]  
}'
```

### Sample Request Single IP:

# JFrog REST APIs Displayed in the header

```
{  
    "ips": [  
        "2.2.2.7/1"  
    ]  
}
```

## Sample Request Multiple IPs:

```
{  
    "status": "IN_PROGRESS",  
    "message": "Success, the action will take a few minutes to complete",  
    "errors": [  
        {  
            "message": "Nonexistent IPs",  
            "details": [  
                "5.5.5.7/1"  
            ]  
        },  
        {  
            "message": "Invalid IPs",  
            "details": [  
                "text"  
            ]  
        }  
    ]  
}
```

## Sample Response Single IP:

```
{  
  
    "status": "IN_PROGRESS",  
  
    "message": "Success, the action will take a few minutes to complete"  
  
}
```

## Sample Response Multiple IPs:

```
{  
    "status": "IN_PROGRESS",  
    "message": "Success, the action will take a few minutes to complete",  
    "errors": [  
        {  
            "message": "Nonexistent IPs",  
            "details": [  
                "5.5.5.7/1"  
            ]  
        },  
        {  
            "message": "Invalid IPs",  
            "details": [  
                "text"  
            ]  
        }  
    ]  
}
```

## Response status codes:

**200**- Success

**400**- Failed

**409**- Another IP action is in progress (try again in a few minutes)

**403**- Server Blocked / Valid token does not match the server name

**401**- Unauthorized user

**429**- Too many requests

# JFrog REST APIs

## Displayed in the header

### 4.16.3 | CUSTOM DOMAIN NAME REST APIs

#### Notice

##### Subscription Information

This feature is supported on **Cloud (SaaS)** platform, with an **Enterprise X** or **Enterprise+** license.

The **MyJFrog Portal REST APIs** provide a set of interfaces for interacting with the MyJFrog Portal. This page focuses on the CNAME REST API, which is used for managing the domains under your certificate. You can add SSL certificates, remove SSL certificates, or edit existing domains smoothly and independently.

For the WebUI documentation, see [Managing Custom Domain Name](#).

##### Prerequisites for using Custom Domain Name REST APIs

- Before using the MyJFrog REST APIs, you need an access token.
  - Only a Primary Admin can generate MyJFrog tokens. For more information, see [Generate a Token in MyJFrog](#).
- Verify that your SSL certificate is in a valid PEM format and that the private key is generated using the RSA algorithm.
  - If your private key is not already in RSA format (RSA PKCS#1), you can convert it to RSA using the following OpenSSL command:  
**-traditional** may be omitted depending on the OpenSSL client  
`openssl rsa -in private.key -out private_rsa.key -traditional`
- The certificate must have the following extended key usages (EKUs): TLS Web Client Authentication and TLS Web Server Authentication.
- The certificate is currently valid and expires in more than 30 days.
- Make sure the certificate body is associated with the private key (same public key on both).
- Domain names are assessed against the standards outlined in RFC1034, Section 3, and RFC1123, Section 2.1. Any domain names that do not adhere to these standards will be deemed invalid and therefore unusable.

##### Field types

Field name	Description
server_name	<p>The server_name field in your request refers to the designated JFrog server where you intend to configure a CNAME (Canonical Name).</p> <p>For instance, if your JFrog server URL is <code>myserver.jfrog.io</code>, and you wish to set up a CNAME for this server, you should enter "myserver" in the server_name field.</p>
Type	<p>The 'Type' parameter offers two valid options:</p>

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Field name	Description
	<ul style="list-style-type: none"><li>• <b>Platform_base_url</b>: Use this option when configuring the base URL for accessing the JPD (JFrog Platform Distribution) User Interface. You can also employ this URL as the base for API calls.</li><li>• <b>Docker_sub_domain</b>: Use this option when configuring the base URL for Docker-related operations, such as login, pull, and push actions, within the JPD. Please note that this parameter is exclusively available for JPD instances that have the Docker Subdomain method configured.</li></ul> <p>For more detailed information on the various Docker methods available in Artifactory, please refer to <a href="#">Get Started With Artifactory as a Docker Registry</a>.</p>
Docker_repository_name_override	<p>Optional, only available for docker subdomain (when configuring the base URL for Docker-related operations).</p> <p>Use this option when you wish to define an explicit repository name (not derived from the domain name) - please notice this is not best practice.</p>

## 4.16.3.1 | Create SSL Object

**Description:** Adds an SSL certificate with defined domains to JPD's under the subscription

**Since:** August 13, 2023

**Security:** Requires a valid token

**Usage:** POST '<https://my.jfrog.com/api/jmis/v1/ssl/submit>'

**Content-Type:** application/json

**Produces:** application/json

**Sample Usage:**

```
curl --location 'https://my.jfrog.com/api/jmis/v1/ssl/submit' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer ' \
--data '{
  "certificate_name": "my-cert-name",
  "certificate_body": "-----BEGIN CERTIFICATE-----
<REDACTED>
-----END CERTIFICATE-----\n",
  "certificate_chain": "-----BEGIN CERTIFICATE-----
<REDACTED>
-----END CERTIFICATE-----\n",
  "certificate_private_key": "-----BEGIN RSA PRIVATE KEY-----
<REDACTED>
-----END RSA PRIVATE KEY-----\n",
  "domains_under_certificate": [
    {
      "url": "servername01.com",
      "server_name": "serverName01",
      "type": "platform_base_url"
    },
    {
      "url": "servername02.com",
      "server_name": "serverName02",
      "type": "platform_base_url"
    }
  ]
}'
```

## JFrog REST APIs Displayed in the header

```
]  
}'
```

### Sample Usage (with Docker\_repository\_name\_override):

```
curl --location 'https://my.jfrog.com/api/jmis/v1/ssl/submit' \  
--header 'Content-Type: application/json' \  
--header 'Authorization: Bearer ' \  
--data '{  
    "certificate_name": "my-cert-name",  
    "certificate_body": "-----BEGIN CERTIFICATE-----  
\nMIIEtCCAzegAwIBAgIGAYhm2M00MA0GCSqGSIb3DQEBCwUAMGkxGTAXBgNVBAMM\nnEgludGVybWVkaWF0ZUNlcnQxEjAQBgNVBAoMCUFjbWUgSW5jLjELMAkGA  
1UECwwC\n-----END CERTIFICATE-----\n",  
    "certificate_chain": "-----BEGIN CERTIFICATE-----  
\nMIIEtCCAzegAwIBAgIGAYhm2M00MA0GCSqGSIb3DQEBCwUAMGkxGTAXBgNVBAMM\nnEgludGVybWVkaWF0ZUNlcnQxEjAQBgNVBAoMCUFjbWUgSW5jLjELMAkGA  
1UECwwC\n-----END CERTIFICATE-----\n",  
    "certificate_private_key": "-----BEGIN RSA PRIVATE KEY-----  
\nMIIEowIBAAKCAQEAqXrUanF4BBsrqqgjly1YmMMMsghWwNreGIP8TXkOkCaiA\n-----END RSA PRIVATE KEY-----\n",  
    "domains_under_certificate": [  
        {  
            "url": "servername01.com",  
            "server_name": "serverName01",  
            "type": "platform_base_url"  
        },  
        {  
            "url": "servername02.com",  
            "server_name": "serverName02",  
            "type": "docker_sub_domain",  
            "docker_repository_name_override": "docker-local"  
        }  
    ]  
}'
```

### Sample Response:

```
200  
OK  
Content-Type: application/json  
{  
    "status": "in_progress",  
    "message": "successfully submitted"  
}
```

### Response status codes:

**200:** Success

**400:** Failed

**409:** Another IP action is in progress (try again in a few minutes)

**403:** Account is not permitted for this action

**401:** Unauthorized user

### 4.16.3.2 | Delete SSL Object

**Description:** Deletes an SSL certificate and the associated domains under it.

**Since:** August 13, 2023

**Security:** Requires a valid token

**Usage:** DELETE [https://my.jfrog.com/api/jmis/v1/ssl/delete/{{certificate\\_id}}](https://my.jfrog.com/api/jmis/v1/ssl/delete/{{certificate_id}})

**Content-Type:** application/json

**Produces:** application/json

# JFrog REST APIs Displayed in the header

## Sample Usage:

```
curl --location --request DELETE 'https://my.jfrog.com/api/jmis/v1/ssl/delete/{{certificate_id}}' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer '
```

## Sample Response:

```
200
OK
Content-Type: application/json
{
  "status": "in_progress",
  "message": "successfully deleted"
}
Response
200
OK
Content-Type: application/json
{
  "ssl_certificates": [
    {
      "expiry": 1717174432000,
```

## Response status codes:

**200:** Success

**400:** Failed

**409:** Another action is in progress (try again in a few minutes)

**403:** Account is not permitted for this action

**401:** Unauthorized user

## 4.16.3.3 | Get SSL Objects

**Description:** Presents all the defined SSL objects under the subscription.

**Since:** August 13, 2023

**Security:** Requires a valid token

**Usage:** GET 'https://my.jfrog.com/api/jmis/v1/ssl \'

**Content-Type:** application/json

**Produces:** application/json

## Sample Usage:

```
curl --location --request GET 'https://my.jfrog.com/api/jmis/v1/ssl \
--header 'Authorization: Bearer ' \
```

## Sample Response:

```
Response
200
OK
Content-Type: application/json
{
  "ssl_certificates": [
    {
      "expiry": 1717174432000,
      "certificate_name": "test_certificate",
      "certificate_id": "47ec4ba1-35c2-4075-91e4-ad257e2e3184",
      "certificate_body": "-----BEGIN CERTIFICATE-----\nMIIEtZCCAzegAwIBAgIGAYhm2M00MA0GCSqGSIb3DQEBCwUAMGkxGTAXBgNVBAMM\nnEgludGVybWVkaWF0ZUNlcnQxEjAQBgNVBAoMCUFjbWUgSW5jLjELMAkGA1UECwwC\n-----END CERTIFICATE-----\n",
```

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```
"certificate_chain": "-----BEGIN CERTIFICATE-----\nMIIEITzCCAegAwIBAgIGAYhm2M00MA0GCSqGSIb3DQEBCwUAMGkxGTAXBgNVBAMM\nnEGludGVybWVkaWF0ZUNlcnQxEjAQBgNVBAoMCUFjbWUgSW5jLjELMAkGA1UECwwC\n-----END CERTIFICATE-----\n",
"certificate_status": "valid",
"domains_under_certificate": [
    {
        "url": "test.mydomain.com",
        "type": "platform_base_url",
        "server_name": "naorselausw2nb121"
    }
],
},
{
    "expiry": 1714563566000,
    "certificate_name": "example_certificate",
    "certificate_id": "47ec4ba1-35c2-4075-91e4-ad257e2e3184",
    "certificate_body": "-----BEGIN CERTIFICATE-----\nMIIEITzCCAegAwIBAgIGAYhm2M00MA0GCSqGSIb3DQEBCwUAMGkxGTAXBgNVBAMM\nnEGludGVybWVkaWF0ZUNlcnQxEjAQBgNVBAoMCUFjbWUgSW5jLjELMAkGA1UECwwC\n-----END CERTIFICATE-----\n",
"certificate_chain": "-----BEGIN CERTIFICATE-----\nMIIEITzCCAegAwIBAgIGAYhm2M00MA0GCSqGSIb3DQEBCwUAMGkxGTAXBgNVBAMM\nnEGludGVybWVkaWF0ZUNlcnQxEjAQBgNVBAoMCUFjbWUgSW5jLjELMAkGA1UECwwC\n-----END CERTIFICATE-----\n",
"certificate_status": "valid",
"domains_under_certificate": [
    {
        "url": "*.\mydomain.com",
        "type": "docker_sub_domain",
        "server_name": "naorselausw3nb121"
    }
]
},
]
}
```

### Response status codes:

**200:** Success

**400:** Failed

**403:** Account is not permitted for this action

**401:** Unauthorized user

### 4.16.3.4 | Renew SSL Object

**Description:** Renews an SSL certificate with the defined domains associated to JPD's under the subscription.

**Since:** August 13, 2023

**Security:** Requires a valid token

**Usage:** POST <https://my.jfrog.com/api/jmis/v1/ssl/renew>

**Content-Type:** application/json

**Produces:** application/json

#### Sample Usage:

```
curl --location 'https://my.jfrog.com/api/jmis/v1/ssl/renew' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer ' \
--data '{
    "certificate_id": "cert-id-123",
    "certificate_name": "my-cert-name",
    "certificate_body": "-----BEGIN CERTIFICATE-----\nMIIEITzCCAegAwIBAgIGAYhm2M00MA0GCSqGSIb3DQEBCwUAMGkxGTAXBgNVBAMM\nnEGludGVybWVkaWF0ZUNlcnQxEjAQBgNVBAoMCUFjbWUgSW5jLjELMAkGA1UECwwC\n-----END CERTIFICATE-----\n'}
```

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```
"certificate_chain": "-----BEGIN CERTIFICATE-----\nMIIEITzCCAzegAwIBAgIGAYhm2M00MA0GCSqGSIb3DQEBCwUAMGkxGTAXBgNVBAMM\nEgludGVybWVkaWF0ZUNlcnQxEjAQBgNVBAoMCUFjbWUgSW5jLjELMAkGA\n1UECwwC\n-----END CERTIFICATE-----\n",\n"certificate_private_key": "-----BEGIN RSA PRIVATE KEY-----\nMIIEowIBAAKCAQEAqXrUanF4BBsrqqgajly1YmMMMsghWwNrEgIP8TXkOkCaiA\n-----END RSA PRIVATE KEY-----\n",\n"domains_under_certificate": [\n{\n"url": "servername01.com",\n"server_name": "serverName01",\n"type": "platform_base_url"\n},\n{\n"url": "servername02.com",\n"server_name": "serverName02",\n"type": "platform_base_url"\n}\n]\n}'
```

**Sample Response when domains under the new SSL certificate match the previous SSL certificate:**

```
200\nOK\nContent-Type: application/json\n{\n  \"status\": \"in_progress\", \n  \"message\": \"successfully submitted\"\n}
```

**Sample Response when domains under the new SSL certificate do not match the previous SSL certificate:**

This might happen when the new SSL certificate does not include the previous domains, which were configured using the previous certificate.

```
200\nOK\nContent-Type: application/json\n{\n  \"status\": \"in_progress\", \n  \"message\": \"successfully submitted. Please notice there are uncovered domains under the new certificate\"\n}
```

### Response status codes:

**200:** Success/ Uncovered domains under certificate

**400:** Failed

**409:** Another action is in progress (try again in a few minutes)

**403:** Account is not permitted for this action

**401:** Unauthorized user

### 4.16.3.5 | Validate SSL Object

**Description:** Validates an SSL certificate by independently verifying its components, including the Private Key, Certificate Body, and Certificate Chain. It also ensures that these elements are validated against each other. This validation process is seamlessly integrated into the other SSL APIs.

**Since:** November 8, 2023

**Security:** Requires a valid token

**Usage:** POST `'https://my.jfrog.com/api/jmis/v1/ssl/validate'`

**Content-Type:** application/json

**Produces:** application/json

# JFrog REST APIs Displayed in the header

## Sample Usage:

```
curl --location 'https://my.jfrog.com/api/jmis/v1/ssl/validate' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer' \
--data '{
    "certificate_name": "my-cert-name",
    "certificate_body": "-----BEGIN CERTIFICATE-----
\nMIIEiTzCCAegAwIBAgIGAYhm2M00MA0GCSqGSIb3DQEBCwUAMGkxGTAXBgNVBAM\neGludGVybWVkaWF0ZUNlcnQxEjAQBgNVBAoMCUFjbWUgSW5jLjELMAkGA
1UECwwC\n-----END CERTIFICATE-----\n",
    "certificate_chain": "-----BEGIN CERTIFICATE-----
\nMIIEiTzCCAegAwIBAgIGAYhm2M00MA0GCSqGSIb3DQEBCwUAMGkxGTAXBgNVBAM\neGludGVybWVkaWF0ZUNlcnQxEjAQBgNVBAoMCUFjbWUgSW5jLjELMAkGA
1UECwwC\n-----END CERTIFICATE-----\n",
    "certificate_private_key": "-----BEGIN RSA PRIVATE KEY-----
\nMIIEowIBAAKCAQEaQXrUanF4BBsrqqgqjly1YmMMMsghWlwNrEgIP8TXkOkCaiA\n-----END RSA PRIVATE KEY-----\n"
}'
```

## Sample Response:

```
200 OK
Content-Type: application/json
{}

400 Bad Request
Content-Type: application/json
{
    "status": "BAD_REQUEST",
    "statusCode": 400,
    "errors": [
        "Your private key does not match your certificate body"
    ]
}
```

## 4.16.3.6 | Manage Domain

**Description:** Add or delete the defined domains associated to JPDs under a valid SSL certificate.

**Since:** August 13, 2023

**Security:** Requires a valid token

**Usage:** POST [https://my.jfrog.com/api/jmis/v1/ssl/manage\\_domains](https://my.jfrog.com/api/jmis/v1/ssl/manage_domains)

**Content-Type:** application/json

**Produces:** application/json

## Sample Usage:

```
curl --location
'https://my.jfrog.com/api/jmis/v1/ssl/manage_domains' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer' \
--data '{
    "certificate_id": "cert-id-123",
    "domains_under_certificate": [
        {
            "url": "servername01.com",
            "server_name": "serverName01",
            "type": "platform_base_url"
        },
        {
            "url": "servername02.com",
            "server_name": "serverName02",
            "type": "platform_base_url"
        }
    ]
}'
```

## Sample Response:

```
200
OK
Content-Type: application/json
{
  "status": "in_progress",
  "message": "successfully submitted"
}
```

**Response status codes:**

**200:** Success

**400:** Failed

**409:** Another action is in progress (try again in a few minutes)

**403:** Account is not permitted for this action

**401:** Unauthorized user

## 5 | Distribution REST APIs

This documentation includes all the REST APIs for JFrog Distribution. It includes the following sections:

- [Introduction to the Distribution REST APIs](#)
- [GENERAL](#)
- [SIGNING KEYS](#)
- [RELEASE BUNDLES V1](#)
- [RELEASE BUNDLES V2](#)
- [DISTRIBUTION](#)
- [AIR GAP ENVIRONMENT](#)
- [TOKEN MANAGEMENT](#)
- [PERMISSION MANAGEMENT](#)
- [SUPPORT](#)
- [MAINTENANCE](#)
- [XRAY](#)
- [ERROR RESPONSES](#)

### 5.1 | Introduction to the Distribution REST APIs

Artifactory provides a convenient and up-to-date self-descriptive API that can be used by various tools/frameworks to automate the creation of REST calls.

#### Usage

Distribution provides a convenient and up-to-date self-descriptive API that can be used by various tools/frameworks to automate the creation of REST calls.

Distribution REST API endpoints can be invoked in any of the standard ways to invoke a RESTful API. This section describes how to use the Distribution REST API using cURL as an example.

#### Using and Configuring cURL

You can download cURL here. Learn how to use and configure cURL [here](#).

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## Authentication

Distribution's REST API supports these forms of authentication:

- Basic authentication using your username and password
- Basic authentication using your username and API Key
- Using an Access Token instead of a password for basic authentication
- Using an Access Token as a bearer token in an authorization header (`Authorization: Bearer`) with your access token

## Base URL

The Platform REST URL is constructed of:

`<JFrog URL>/<Service Context>/api/<API-Version>`

For example:

```
# Using your JFrog URL  
http://myjfrog.acme.org/distribution/api/v1
```

```
# Using your Artifactory server hostname and the Artifactory router port  
http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1
```

## 5.2 | GENERAL

### 5.2.1 | Test Connection

**Description:** Test connection with Distribution.

**Since:** 1.0

**Security:** No authentication required.

**Usage:** GET /api/v1/system/ping

**Request headers:** N/A

**Consumes:** N/A

#### cURL Example

```
$ curl -X GET "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/system/ping"
```

#### Response status codes:

200 - Connection healthy

500 - Error. The following error is displayed: "One or more of the following services are unavailable: distributor, database and/or redis."

**Response headers:** N/A

**Produces:** application/json

#### Response

On Success

```
{  
  "status_code": 200,  
  "message": "ok"  
}
```

On Error

```
{  
  "status_code": 500,  
  "message": "One or more of the following services are unavailable: distributor, database and/or redis"  
}
```

## 5.2.2 | Get System Info

**Description:** Get general information, including error details if system is unstable.

**Note:** Do not set a passphrase for the signing keys. When creating release bundles through the UI, JFrog Distribution does not currently support entering a passphrase.

**Since:** 1.0

**Security:** No authentication required.

**Usage:** GET /api/v1/system/info

**Request headers:** N/A

**Consumes:** N/A

**cURL Example**

```
$ curl -u myUser:myP455w0rd! -X GET "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/system/info"
```

**Response status codes:**

200 - Success

**Response headers:** N/A **Produces:** application/json **Response**

```
{
  "status": "STABLE",
  "message": "...",
  "version": "1.0",
  "service_id": "jfds@..."
}
```

## 5.2.3 | Get System Settings

**Description:** get system settings

**Since:** 1.6

**Security:** Admin only

**Usage:** GET /api/v1/system/settings

**Request headers:** N/A

**Consumes:** N/A

**cURL Example**

```
$ curl -u user:password -X GET "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/system/settings"
```

**Response status codes:** 200 - Success

**Response headers:** N/A

**Produces:** application/json

**Response**

```
{
  "call_home_enabled": true
}
```

## 5.2.4 | Update System Settings

**Description:** update system settings

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**Since:** 1.6

**Security:** Admin only

**Usage:** POST /api/v1/system/settings

**Request headers:** N/A

**Consumes:** application/json

## cURL Example

```
$ curl -u user:password -H "Accept: application/json" -H "Content-Type: application/json" -X POST  
"http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/system/settings" -T system_settings.json
```

### system\_settings.json

```
{  
    "call_home_enabled": true  
}
```

Field	Type	Required	Default Value	Since	Description
call_home_enabled	Boolean	no	false	1.6	If enabled, sending usage statistics to JFrog

## Response status codes:

200 - Success

## 5.3 | SIGNING KEYS

### 5.3.1 | Upload and Propagate GPG Signing Keys for Distribution

**Description:** GPG Keys are used to sign Release Bundles v1. The GPG key pair will automatically be propagated to Artifactory Source and Destinations. You can use this to do one of the following:

#### Important

For information about propagating Release Bundle v2 signing keys, see [Propagate Public Signing Key](#).

- Upload a GPG key pair to JFrog Distribution from your file system
- Retrieve keys from a vault.

#### Notes:

- Requires JFrog Mission Control version 4.5.0 and above.
- Distribution relies on JFrog Mission Control communicating to the JPDs to propagate the GPG Keys
- The keys must be copied and pasted into the request body.
- You cannot use `public_key` and `private_key` parameters with the `vault_data` parameter.
- The `vault_id` parameter should be Hashicorp as it is the only supported vault for now.

**Since:** 2.4

#### Note

From version 2.8.1, Distribution supports managing multiple GPG signing keys to sign Release Bundles. This enables you to assign a signing key pair per Release Bundle providing you with the granularity to choose which keys to use to sign the Release Bundles instead of using the same key pair to sign all.

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**Security:** Admin only

**Usage:** POST /api/v1/keys/{protocol: pgp|gpg}

**Request headers:** N/A

**Consumes:** application/json

## Note

The JSON request body should have "set\_as\_default": true if this is the first key that is set or if there is no default key in Artifactory.

POST:/api/v1/keys/{protocol: pgp|gpg}

body:

```
{  
    "key": {  
        "public_key": "-----BEGIN PGP PUBLIC KEY BLOCK-----END PGP PUBLIC KEY BLOCK-----",  
        "private_key": "-----BEGIN PGP PRIVATE KEY BLOCK-----END PGP PRIVATE KEY BLOCK-----"  
    },  
    "propagate_to_edge_nodes": true,  
    "fail_on_propagation_failure": false  
}
```

Expected response:

```
{  
    "report": {  
        "message" : "error message if exists"  
        "status" : PARTIAL_SUCCESS | SUCCESS | FAILURE | PROPAGATION_NOT_REQUESTED |  
PROPAGATION_NOT_SUPPORTED_BY_MISSION_CONTROL | NO_GPG_KEY_TO_PROPAGATE  
        "details" : [  
            {  
                "jpd_id" : "id1",  
                "name" : "US-EAST"  
                "key_alias" : "my first key"  
                "status" : "SUCCESS"  
            },  
            {  
                "jpd_id" : "id2",  
                "name" : "US-WEST"  
                "key_alias" : "my first key"  
                "status" : "SUCCESS"  
            },  
        ]  
    }  
}
```

## Multiple GPG Keys Sample

```
{  
    "key": {  
        "alias": "name",  
        "public_key" : "",  
        "private_key": ""  
    },  
    "propagate_to_edge_nodes" : false,  
    "fail_on_propagation_failure": false,  
    "set_as_default": true  
}
```

## Vault Sample Usage

```
body:  
{  
    "fail_on_propagation_failure": false,  
    "propagate_to_edge_nodes": false,  
    "key": {  
        "vault_data": {  
            "vault_id": "hashicorp",  
            "public_key": {  
                "path": "kv/public/path",  
            }  
        }  
    }  
}
```

## JFrog REST APIs Displayed in the header

```
        "key": "public"
    },
    "private_key": {
        "path": "kv/private/path",
        "key": "private"
    }
}
```

Expected response:

```
{
    "report": {
        "message" : "error message if exists"
        "status" : PARTIAL_SUCCESS | SUCCESS | FAILURE | PROPAGATION_NOT_REQUESTED |
PROPAGATION_NOT_SUPPORTED_BY_MISSION_CONTROL | NO_GPG_KEY_TO_PROPAGATE
        "details" : [
            {
                "jpd_id" : "id1",
                "name" : "US-EAST"
                "key_alias" : "my first key"
                "status" : "SUCCESS"
            },
            {
                "jpd_id" : "id2",
                "name" : "US-WEST"
                "key_alias" : "my first key"
                "status" : "SUCCESS"
            },
        ]
    }
}
```

### 5.3.2 | Update Alias Name

**Description:** Updates the Alias name.

**Since:** 2.8.1

**Security:** Admin only

**Usage:** PUT api/v1/keys/gpg/{alias\_name}

**Request headers:** N/A

**Consumes:** application/json

**Sample Request**

```
{
    "new_alias": {}
}
```

### 5.3.3 | Get Key

**Description:** Retrieves public key by alias name.

**Since:** 2.8.1

**Security:** Admin only

**Usage:** GET api/v1/keys/gpg/{alias-name}

**Request headers:** N/A

**Consumes:** application/json

**Sample Response**

```
{
    "alias": "alias-name"
```

## JFrog REST APIs Displayed in the header

```
"public_key": "-----BEGIN PGP PUBLIC KEY BLOCK-----...-----END PGP PUBLIC KEY BLOCK-----",  
}
```

### 5.3.4 | Get Keys List

**Description:** Retrieves the list of all keys.

**Since:** 2.8.1

**Security:** Admin only

**Usage:** GET api/v1/keys/gpg/aliases

**Request headers:** N/A

**Consumes:** application/json

**Sample Response**

```
[{  
    "alias": "alias-name",  
    "default": false|true,  
    "passphrase": false|true  
, .....  
]
```

### 5.3.5 | Delete Key

**Description:** Deletes the key.

**Since:** 2.8.1

**Note:** If a default key is deleted, the oldest key uploaded will be used as the default automatically.

**Security:** Admin only

**Usage:** DELETE api/v1/keys/gpg/{alias\_name}

**Request headers:** N/A

**Consumes:** application/json

### 5.3.6 | Propagate GPG Signing Keys to a Distribution Edge

**Description:** Propagate the GPG key pair to a newly added Distribution Edge.

**Since:** 2.4

**Notes:** Requires Mission Control version 4.5.0 and above.

**Security:** Admin only

**Usage:** POST /api/v1/keys/{protocol: pgp|gpg}/propagate

**Request headers:** N/A

**Consumes:** application/json

From Distribution release 2.13.2, GPG keys are propagated as follows:

# JFrog REST APIs Displayed in the header

Propagation Behavior	Explanation
When no parameters are provided	The default key will be propagated.
When api/v1/keys/pgp/propagate?all=true	Propagates all available keys.
When api/v1/keys/pgp/propagate?alias = <alias name>	Propagates the key with the alias name.  For example, api/v1/keys/pgp/propagate?alias = 'my_key' propagates the key with the alias name my_key.
	<b>Note</b>  Propagation is possible by either alias key or all keys but not both.

response:

```
{  
    "report": {  
        "message" : "error message if exists"  
        "status" : PARTIAL_SUCCESS | SUCCESS | FAILURE | PROPAGATION_NOT_REQUESTED |  
PROPAGATION_NOT_SUPPORTED_BY_MISSION_CONTROL | NO_GPG_KEY_TO_PROPAGATE  
        "details" : [  
            {  
                "jpd_id" : "id1",  
                "name" : "US-EAST"  
                "key_alias" : "my first key"  
                "status" : "SUCCESS"  
            },  
            {  
                "jpd_id" : "id2",  
                "name" : "US-WEST"  
                "key_alias" : "my first key"  
                "status" : "SUCCESS"  
            },  
        ]  
    }  
}
```

## 5.3.7 | Upload GPG Signing Key for Distribution

**Description:** Upload GPG key pair to JFrog Distribution. This key pair will be used to sign Release Bundles.

**Note:** Deprecated from Distribution version 2.4

**Since:** 1.0

**Security:** Admin only

**Usage:** PUT /api/v1/keys/gpg

**Request headers:** N/A

**Consumes:** application/json

### cURL Example

```
$ curl -u user:password -H "Accept: application/json" -H "Content-Type: application/json" -X PUT  
"http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/keys/gpg" -T gpg.json
```

**gpg.json**

## JFrog REST APIs Displayed in the header

```
{  
  "public_key": "-----BEGIN PGP PUBLIC KEY BLOCK-----  
  ....  
  -----END PGP PUBLIC KEY BLOCK-----",  
  "private_key": "-----BEGIN PGP PRIVATE KEY BLOCK-----  
  ....  
  -----END PGP PRIVATE KEY BLOCK-----"  
}
```

### Response status codes:

200 - Keys were successfully set.

### Response headers: N/A

Produces: application/json

### Response

```
{  
  "status_code": 201,  
  "message": "Set GPG public & private key"  
}
```

## 5.3.8 | Get Public Key

**Description:** Returns the public GPG key set in Distribution.

**Note:** The private key field will be displayed in the JSON response format, only if the private key exists in the DB for that public key.

When GPG public key was not uploaded in the first place, the following message is returned: "No public GPG key exists in Distribution".

**Since:** 2.3.0

**Security:** Authenticated users only. Users must have read permissions for the Release Bundle.

**Usage:** GET /api/v1/keys/gpg

Consumes: application/json

### cURL Example

```
$ curl -u user:password -X GET "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/keys/gpg"
```

### Response:

### Response

```
{  
  "public_key": "<public gpg key>",  
  "private_key": "*****"  
}
```

## 5.4 | RELEASE BUNDLES V1

### 5.4.1 | Create Release Bundle v1 Version

**Description:** Create a new Release Bundle v1 version.

### Important

For information about creating a Release Bundle v2 version, see [Create Release Bundle v2 Version](#).

**Since:** 1.0

**Security:** Authenticated users only. User must have matching Release Bundle writer permissions.

# JFrog REST APIs Displayed in the header

**Usage:**POST api/v1/release\_bundle

## Usage restrictions:

- The {name} string is limited to 128 characters.
- The {version} string is limited to 32 characters. The string LATEST is prohibited.
- The {name} and {version} strings must begin with a letter or digit.
- The {name} and {version} strings must consist only of letters, digits, underscores, periods, hyphens, and colons.

**Request headers:** X-GPG-PASSPHRASE - String - the passphrase for the signing key, if applicable

**Consumes:** application/json

## cURL Example

```
$ curl -u user:password -H "Accept: application/json" -H "Content-Type: application/json" -H "X-GPG-PASSPHRASE: keysPassphrase" -X POST "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/release_bundle" -T createbundle.json
```

## createbundle.json

```
{
  "name": "",
  "version": "",
  "dry_run": true|false,
  "sign_immediately": true|false,
  "storing_repository": "repository-name"|null,
  "description": "",
  "release_notes": {
    "syntax": "markdown|asciidoc|plain_text",
    "content": ""
  },
  "spec": {
    "queries": [
      {
        "aql": "items.find({ \"repo\": \"example-repo-local\" })",
        "query_name": "query-1",
        "mappings": [
          {
            "input": "regex",
            "output": "$1/$2"
          }
        ],
        "added_props": [
          {
            "key": "",
            "values": []
          }
        ],
        "exclude_props_patterns": [
          "example_exclude_prop_pattern_1",
          "example_example_prop_pattern_2"
        ]
      }
    ]
  }
}
```

Field	Type	Required	Default Value	Since	Description
name	String	yes	N/A	1.0	Release bundle name
version	String	yes	N/A	1.0	Release bundle version

**JFrog REST APIs**  
Displayed in the header

Field	Type	Required	Default Value	Since	Description
dry_run	Boolean	no	false	1.0	If true, only parses and validates.  Note: this parameter default was previously set to true in versions below 2.x.
sign_immediately	Boolean	no	false	1.2	If true, automatically signs the release bundle version.
storing_repository	String	no	null	1.3	A repository name at source Artifactory to store release bundle artifacts in. If not provided, Artifactory will use the default one (requires Artifactory 6.5 or later).
description	String	no	null	1.0	Description of the release bundle.
release_notes	String	no	null	1.0	Describes the release notes for the release bundle version.
release_notes.syntax	String	no	"plain_text"	1.0	The syntax for the release notes. Options include: <ul style="list-style-type: none"> <li>• markdown</li> <li>• asciidoc</li> <li>• plain_text (default)</li> </ul>
<b>Warning</b>					
Starting with Distribution 2.26.1, users are restricted from adding HTML tags to release notes written in Markdown. This behavior is controlled by the enable-sanitize-release-notes configuration property, which by default is set to true.					
To keep the platform safe against possible cross-site scripting (XSS) attacks, it is recommended to not change this setting.					
release_notes.content	String	yes	N/A	1.0	The content of the release notes.

**JFrog REST APIs**  
Displayed in the header

Field	Type	Required	Default Value	Since	Description
spec	Object	yes	N/A	1.0	Describes the specification by artifacts are gathered and distributed in this release bundle.
spec.source_artifactory_id	String	deprecated	N/A	2.0	
spec.queries	List (Object)	yes	N/A	1.0	List of query objects to gather artifacts by.
spec.queries.aql	String	yes	N/A	1.0	AQL query for gathering the artifacts from Artifactory.
spec.queries.query_name	String	no	"query-{index}"	1.0	A name to be used when displaying the query object.  Note that the release bundle query name length must be between 2 and 32 characters long and must start with alphabetic character followed by an alphanumeric or '_-' characters only.
spec.queries.added_props	List (Object)	no	null	1.0	List of added properties which will be added to the artifacts after distribution of the release bundle
spec.queries.added_props.key	String	yes	N/A	1.0	Property key to be created or updated on the distributed artifacts.
spec.queries.added_props.values	List (String)	no	[]	1.0	List of values to be added to the property key after distribution of the release bundle
spec.queries.mappings	List (Object)	no	null	1.0	List of mappings, which are applied to the artifact paths after distribution of the release bundle
spec.queries.mappings.input	String	yes	N/A	1.0	Regex matcher for artifact paths.
spec.queries.mappings.output	String	yes	N/A	1.0	Replacement for artifact paths matched by the "input" matcher. Capture groups can be used as "\$1".

# JFrog REST APIs Displayed in the header

Field	Type	Required	Default Value	Since	Description
spec.exclude_props_patterns	List (String)	no	null	2.5.0	List of patterns for Properties keys to exclude after distribution of the release bundle. This will not have an effect on the "added_props" properties.

## Response status codes:

201 - Successfully created release bundle version

409 - Release bundle with same name and version already exists

X - Status code for error passed from Artifactory AQL

## Response headers: N/A

Produces: application/json

## Response

```
{
  "name": "bundle-name",
  "version": "1.0",
  "state": "OPEN",
  "created": "2018-03-14T10:19:30.678Z",
  "artifacts": [
    {
      "checksum": "0651d26f4cc6ed60cd9d273c440daf7617459d3f6e3d512188ff19d4933e4ff6",
      "source_repo_path": "conanx/demo/sample-conan1/1.0/testing/export/conanfile.py",
      "target_repo_path": "conanx/demo/sample-conan1/1.0/testing/export/conanfile.py",
      "props": [
        {
          "key": "conan.package.version",
          "values": [
            "1.0"
          ]
        },
        ...
      ]
    },
    {
      "xray_scan_info": {
        "blocked": boolean,
        "blocked_reason": string (null if not blocked)
      },
      ...
    ],
    "archived": false
  }
}
```

## NPM, Bower and NuGet Package Types

When working with package types such as NPM, Bower and NuGet, that require transitive dependencies, you will need to create two separate release bundles: 1. An artifacts release bundle, and 2. A dependencies release bundle.

You can generate the `build.info` using JFrog CLI and create the release bundles using the following **dependency** and **artifact AQL** queries:

### Artifact AQL

```
builds.find({"name": "buileName", "number": "buildNumber"}).include("module.artifact.item")
```

### Dependency AQL

```
builds.find({"name": "buildName", "number": "buildNumber"}).include("module.dependency.item")
```

#### 5.4.2 | Dynamic Release Bundle v1

**Description:** Creates, signs, and distributes an ad-hoc Release Bundle v1 to Distribution Edges.

**Since:** 2.8.1

**Security:** Authenticated users only. The user must have matching Release Bundle writer permissions.

**Usage:** POST api/v1/dynamic/distribute

**Sample Usage:**

```
{  
    "storing_repository": "repo-name"  
    "spec": {  
        "queries": [  
            {  
                "aql": "items.find({\"$and\": [{\"$or\": [{\"repo\": {\"$eq\": \"example-repo-local\"}}]}]})",  
                "query_name": "demo-aql"  
            }  
        ]  
    },  
    "distribution_rules": [  
        {  
            "site_name": "?wildcard*",  
            "city_name": "?wildcard*",  
            "country_codes": ["?wildcard*"]  
        }  
    ]  
}
```

**Sample Response:**

```
{  
    "id": 188527534551203840,  
    "sites": [  
        {  
            "service_id": "jfrt@01cc8hkzy1zgtc1wqw3zk41p2a",  
            "name": "US_NY_Art01",  
            "type": "edge"  
        },  
        ...  
    ]  
}
```

**Status Codes:**

Code	Description
202	Accepted

#### 5.4.3 | Update Release Bundle v1 Version

**Description:** Updates an existing unsigned Release Bundle v1 version.

**Since:** 1.2

**Security:** Authenticated users only. The user must have matching Release Bundle writer permissions..

**Usage:** PUT api/v1/release\_bundle/:name/:version

**Request headers:** X-GPG-PASSPHRASE - String - the passphrase for the signing key, if applicable

**Consumes:** application/json

# JFrog REST APIs Displayed in the header

## cURL Example

```
$ curl -u user:password -H "Accept: application/json" -H "Content-Type: application/json" -H "X-GPG-PASSPHRASE: keysPassphrase" -X PUT "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/release_bundle/:name/:version" -T createbundle.json
```

## updatebundle.json

```
{
  "dry_run": true|false,
  "sign_immediately": true|false,
  "description": "",
  "storing_repository": "repository-name"|null,
  "release_notes": {
    "syntax": "markdown|asciidoc|plain_text",
    "content": ""
  },
  "spec": {
    "queries": [
      {
        "aql": "items.find({ \"repo\": \"example-repo-local\" })",
        "query_name": "query-1"
        "mappings": [
          {
            "input": "regex",
            "output": "$1/$2"
          }
        ],
        "added_props": [
          {
            "key": "",
            "values": []
          }
        ],
        "exclude_props_patterns": [
          "example_exclude_prop_pattern_1",
          "example_example_prop_pattern_2"
        ]
      }
    ]
  }
}
```

Field	Type	Required	Default Value	Since	Description
dry_run	Boolean	no	false	1.2	If true, only parses and validates.  <b>Note:</b> this parameter default was previously set to true in versions below 2.x.
sign_immediately	Boolean	no	false	1.2	if true, automatically signs the release bundle version.
storing_repository	String	no	null	1.3	A repository name at source Artifactory to store release bundle artifacts in. If not provided, Artifactory will use the default one (requires Artifactory 6.5 or later).
description	String	no	null	1.2	Description of the release bundle

**JFrog REST APIs**  
Displayed in the header

Field	Type	Required	Default Value	Since	Description
release_notes	String	no	null	1.2	Describes the release notes for the release bundle version
release_notes.syntax	String	no	"plain_text"	1.2	The syntax for the release notes
release_notes.content	String	yes	N/A	1.2	The content of the release notes
spec	Object	yes	N/A	1.2	Describes the specification by artifacts are gathered and distributed in this release bundle
spec.queries	List (Object)	yes	N/A	1.2	List of query objects to gather artifacts by.
spec.queries.aql	String	yes	N/A	1.2	AQL query to gather the artifacts from Artifactory
spec.queries.query_name	String	no	"query-{index}"	1.2	A name to be used when displaying the query object  Note that the release bundle query name length must be between 2 and 32 characters long and must start with alphabetic character followed by an alphanumeric or '_-.' characters only.
spec.queries.added_props	List (Object)	no	null	1.2	List of added properties which will be added to the artifacts after distribution of the release bundle
spec.queries.added_props.key	String	yes	N/A	1.2	Property key to be created or updated on distributed artifacts
spec.queries.added_props.values	List (String)	no	[]	1.2	List of values to be added to the property key after distribution of the release bundle
spec.queries.mappings	List (Object)	no	null	1.2	List of mappings, which are applied to the artifact paths after distribution of the release bundle
spec.queries.mappings.input	String	yes	N/A	1.2	Regex matcher for artifact paths

# JFrog REST APIs Displayed in the header

Field	Type	Required	Default Value	Since	Description
spec.queries.mappings.output	String	yes	N/A	1.2	Replacement for artifact paths matched by the "input" matcher. Capture groups can be used as "\$1".
spec.exclude_props_patterns	List (String)	no	null	2.5.0	List of patterns for Properties keys to exclude after distribution of the release bundle. This will not an effect on the "added_props" properties.

## Response status codes:

200 - Successfully updated release bundle version

400 - Release bundle version is signed

X - Status code for error passed from Artifactory AQL

**Response headers:** N/A **Produces:** application/json

## Response

```
{
  "name": "bundle-name",
  "version": "1.0",
  "state": "OPEN",
  "created": "2018-03-14T10:19:30.678Z",
  "artifacts": [
    {
      "checksum": "0651d26f4cc6ed60cd9d273c440daf7617459d3f6e3d512188ff19d4933e4ff6",
      "source_repo_path": "conanx/demo/sample-conan1/1.0/testing/export/conanfile.py",
      "target_repo_path": "conanx/demo/sample-conan1/1.0/testing/export/conanfile.py",
      "props": [
        {
          "key": "conan.package.version",
          "values": [
            "1.0"
          ]
        },
        ...
      ]
    },
    {
      "xray_scan_info": {
        "blocked": boolean,
        "blocked_reason": string (null if not blocked)
      },
      ...
    ],
    "archived": false
}
```

## NPM, Bower and NuGet Package Types

When working with package types such as NPM, Bower and NuGet, that require transitive dependencies, you will need to create two separate release bundles: 1. An artifacts release bundle, and 2. A dependencies release bundle.

You can generate the *build.info* using JFrog CLI , and create the release bundles using the following **dependency** and **artifact AQL** queries:

## Artifact AQL

# JFrog REST APIs Displayed in the header

```
builds.find({"name":"buileName", "number":"buildNumber"}).include("module.artifact.item")
```

## Dependency AQL

```
builds.find({"name":"buildName", "number":"buildNumber"}).include("module.dependency.item")
```

### 5.4.4 | Sign Release Bundle v1 Version

**Description:** Signs a Release Bundle v1 version and stores it in the source Artifactory (requires Artifactory 6.5 or later) in the storing repository.

#### Important

Release Bundle v2 versions are signed in Artifactory and the same keys are used for distribution. For more information, see Create Signing Keys for Release Bundles (v2).

**Since:** 1.2

**Security:** Authenticated users only. The user must have matching Release Bundle writer permissions.

**Usage:** POST api/v1/release\_bundle/:name/:version/sign

**Request headers:** X-GPG-PASSPHRASE - String - the passphrase for the signing key, if applicable

#### cURL Example

```
$ curl -u user:password -H "Accept: application/json" -H "Content-Type: application/json" -H "X-GPG-PASSPHRASE: keysPassphrase" -X POST "http://ARTIFACTORY_SERVER_NAME:8082/distribution/api/v1/release_bundle/:name/:version/sign"
```

Field	Type	Required	Default Value	Since	Description
storing_repository	String	no	null	1.3	A repository name at source Artifactory to store release bundle artifacts in. If not provided, Artifactory will use the default one (requires Artifactory 6.5 or later).
signing_key_alias	String	no	Default key	2.8.1	The name of the key that will be used to sign the Release Bundle. If no alias is provided, the default key will be used.

#### Response status codes:

200 - Successfully signed release bundle version

400 - Release bundle version is already signed

**Response headers:** N/A

**Produces:** application/json

#### Response

```
{  
  "name": "bundle-name",  
  "version": "1.0",  
  "state": "SIGNED",  
  "created": "2018-03-14T10:19:30.678Z",  
  "artifacts": [  
    {  
      "checksum": "0651d26f4cc6ed60cd9d273c440daf7617459d3f6e3d512188ff19d4933e4ff6",  
      "source_repo_path": "conanx/demo/sample-conan1/1.0/testing/export/conanfile.py",  
      "target_repo_path": "conanx/demo/sample-conan1/1.0/testing/export/conanfile.py",  
    }  
  ]  
}
```

## JFrog REST APIs Displayed in the header

```
"props": [
  {
    "key": "conan.package.version",
    "values": [
      "1.0"
    ]
  },
  ...
],
},
...
],
"archived": false
}
```

### 5.4.5 | Get All Versions of All Release Bundles v1

**Description:** Returns all the Release Bundle v1 versions. This endpoint supports pagination, returning up to 10 Release Bundles per page.

**Since:** 1.0

**Security:** Authenticated users only. Only release bundles that the user has read permission for are displayed.

**Usage:** GET api/v1/release\_bundle[?start\_pos=:position]

**Request headers:** N/A

**Consumes:** N/A

#### cURL Example

```
$ curl -u user:password -X GET "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/release_bundle?start_pos=0"
```

#### Response status codes:

200 - Success

**Response headers:** X-RangeLimit-StartPos - number X-RangeLimit-EndPos - number

X-RangeLimit-Total - number

**Produces:** application/json

#### Response

```
[
  {
    "name": "release-bundle-name",
    "version": "1.0.0",
    "state": "OPEN",
    "description": "release bundle description text",
    "release_notes": {
      "content": "release notes text",
      "syntax": "plain_text"
    },
    "created": "2018-03-14T17:36:35.416Z",
    "created_by": "[username]",
    "distributed_by": "[username]"
    "artifacts": [],
    "archived": false
  },
  ...
]
```

### 5.4.6 | Get Release Bundle v1 Versions

# JFrog REST APIs Displayed in the header

**Description:** Returns all the Release Bundle v1 versions. This endpoint supports pagination, returning up to 10 release bundles per page.

## Important

For information about getting Release Bundle v2 versions, see [Release Bundle V2 APIs](#).

**Since:** 1.0

**Security:** Authenticated users only. The user must have read permission for the release bundle.

**Usage:** GET `api/v1/release_bundle/:name[?start_pos=:position]`

**Request headers:** N/A

**Consumes:** N/A

### cURL Example

```
$ curl -u user:password -X GET "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/release_bundle/:name?start_pos=0"
```

### Response status codes:

200 - Success 404 - Release bundle not found

**Response headers:** X-RangeLimit-StartPos - number X-RangeLimit-EndPos - number

X-RangeLimit-Total - number

**Produces:** application/json

### Response

```
[  
  {  
    "name": "release-bundle-name",  
    "version": "1",  
    "state": "OPEN",  
    "description": "release bundle description text",  
    "release_notes": {  
      "content": "release notes description text",  
      "syntax": "plain_text"  
    },  
    "created": "2018-03-14T17:36:35.416Z",  
    "created_by": "[username]",  
    "distributed_by": "[username]",  
    "artifacts": [  
      {  
        "checksum": "5880e05b5886a2fcda9a5a6dace38cd4f243affa06719c5e63116b16094e95a31",  
        "props": [  
          {  
            "key": "build.timestamp",  
            "values": ["1521049005953"]  
          },  
          ...  
        ],  
        "source_repo_path": "artifactory-generic/artifactory-client-java-api-0.9.2.jar",  
        "target_repo_path": "artifactory-generic/artifactory-client-java-api-0.9.2.jar"  
      },  
      ...  
    ],  
    "archived": false  
  },  
  ...  
]
```

## 5.4.7 | Get Release Bundle v1 Version

**Description:** View a specific Release Bundle v1 version. Multiple response formats are supported.

# JFrog REST APIs Displayed in the header

## Important

For information about getting Release Bundle v2 versions, see [Release Bundle V2 APIs](#).

**Since:** 1.0

**Security:** Authenticated users only. The user must have read permission for the release bundle.

**Usage:** GET api/v1/release\_bundle/:name/:version[?format=json | jws | jose]

**Request headers:** N/A

**Consumes:** N/A

### cURL Example

```
$ curl -u user:password -X GET "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/release_bundle/:name/:version?  
format=json"
```

### Response status codes:

200 - Success 404 - Release bundle or release bundle version not found

**Response headers:** N/A

**Produces:** application/json (default)

**format=json**

```
{  
    "name": "bundle-name",  
    "version": "1.0.0",  
    "state": "OPEN",  
    "description": "Bundle description",  
    "release_notes": {  
        "content": "release notes description text",  
        "syntax": "plain_text"  
    },  
    "created": "2018-05-02T08:45:16.860Z",  
    "created_by": "[username]",  
    "distributed_by": "[username]",  
    "artifacts": [  
        {  
            "source_repo_path": "example-repo-local/Screen Shot 2018-04-05 at 10.47.16.png",  
            "target_repo_path": "example-repo-local/achange/Screen Shot 2018-04-05 at 10.47.16.png",  
            "checksum": "5a730b01e81e2aa3b5188bcf3be8e4e7d61f83b6156b22a33c9a3f23ff38e19",  
            "props": [  
                {  
                    "key": "jira",  
                    "values": ["1"]  
                }  
            ]  
        },  
        ...  
    ],  
    "archived": false  
}
```

**Produces:** application/jose+json (format=jws)

**format=jws**

```
{  
    "header": "eyJraWQiOiIzZWFiNGEiLCJhbGciOiJSUzI1NiJ9",  
    "payload":  
"eyJuYW1lIjoiYnVuZGx1LW5hbWUiLCJ2ZXJzaW9uIjoiMS4wLjAiLCJkZXNjcm1wdGlvbii6IkJ1bmRsZSBkZXNjcm1wdGlvbiiSInJ1bGVhc2Vfbm90ZXMiOnsi  
Y29udGVudCI6InJ1bGVhc2Ugbm90ZXMcZGVzY3JpcHRpb24gdGV4dCIsInN5bnRheCI6InBsYwluX3R1eHQifSwiY3J1YXR1ZCI6IjIwMTgtMDUtMDJUMDg6NDU6M  
TYuODYwWiIsImFydGlmYWn0cyI6W3sicmVwb19wYXRoIjoiZxhhBxbsZS1yZXbvLWxvY2FsL2FjaGFuZ2UvU2NyZwvIFNob3QgMjAxOC0wNC0wNSBhdCAxMC40L  
4xNi5wbmcilCJjaGVja3N1bSI6IjvhNzMyJAxZTgxZTJhYTNInte4OGJjZWYzYmU4ZTR1N2Q2MwY4M2I2MTU2YjIyYTMzYz1hM2YyM2ZmMzh1MTkiLCJwcm9wcyI  
6W3sia2V5IjoiamlYYSIsInZhbwHvlcyI6WyIxIl19XX0seyJyZXbvX3BhdGgiOijleGFtcGx1LXJ1cG8tbG9jYWwvYWNoYW5nzs9TY3J1ZW4gU2hvdCAyMDE4LTA0  
LTA1IGF0IDEwLjQ3LjE2ICgyKS5wbmcilCJjaGVja3N1bSI6IjIzMzY2Mzk5N2EyZGYxY2FmZDZhZWI1NjkxNjZhZjkxzjYzzDQwZjRmNDFiNjgxY2J1N2RmMj1kM  
WE1YzE3MGEiLCJwcm9wcyI6W3sia2V5IjoiamlYYSIsInZhbwHvlcyI6WyIxIl19XX0seyJyZXbvX3BhdGgiOijleGFtcGx1LXJ1cG8tbG9jYWwvYWNoYW5nzs9TY3
```

## JFrog REST APIs Displayed in the header

```
JZLW4gU2hvdCAyMDE4LTA0LTA1IGF0IDEwLjQ3LjE2IDEucG5nIiwiY2h1Y2tzdW0i0iIYTczMGIwMWU4MWUyYWEzYjUxODhiY2VmM2J1OGU0ZTdkNjFmODNiNjE1NmIyMmEZM2M5YTNmMjNmZjM4ZTE5IiwichJvcHMi0lt7ImtlesI6ImppcmEiLCJ2Ywx1ZXMi0lsimSJdfV19LhsicmVwb19wYXRoIjoizXhhbXBsZS1yZXbvwLwvY2FsL2FjaGFuZ2UvU2NyZwVuIFNob3QgMjAxOC0wNC0wNSBhdCAXMC40Ny4xNiAoMykucG5nIiwiY2h1Y2tzdW0i0iIjYmZjZjk0NzkzYzQ1ZTk5NmY2YTQx0DY5M2zjYjBhZDU1NzRkMzJiYzUwN2NjNmVjMDAzMDkxMfjMWQ3MDUzIiwichJvcHMi0lt7ImtlesI6ImppcmEiLCJ2Ywx1ZXMi0lsimSJdfV19XX0",  
    "signature":  
"QWzTD2uXhLw5FW1483qEYA_h47jak8YE24mlwuF1UcT9yTYZBdEMrFWTz0uZvPtlqi65Ek6oNeSFZ0657sjpuT0pfPIg053nxOoIa4mx1xMS5nCM50Xj3qobcl10P_sX8I18AGWbX9oI9hvSGAKYbxmu-3kVs0W1tCacb_VuHsL5KkgY2Thq5dBKhQ73aS1cE-CnfobQKGcsx10eFhEFV8VbaJGLpKV8nhERDE4XA5oRARA-CczL1EYNvn5aRD-Q1n5yI7Cys8hoDIxDLT20CQ5alb9h4D4w7mGJrtQG0xNwsstGOTSL1HLXAE27qvBxCisp6afX675AkOs1Eg0g"  
}
```

**Produces:** application/jose (format=jose)

**format=jose**

```
eyJraWQi0iIzZWFiNGEiLCJhbGciOiJSUzI1NiJ9.eyJUW1lIjoiYnVuZGxllW5hbWUiLCJ2ZXJzaW9uIjoiMS4wLjAiLCJkZXNjcm1wdGlvbii6IkJ1bmRsZSBkZXNjcm1wdGlvbiiSInJlbGVhc2Vfbm90ZXMi0nsiY29udGvudCI6InJlbGVhc2Ugbm90ZXMgZGVzY3JpcHRpb24gdGV4dCIsInN5bnRheCI6InBsYwluX3R1eHQifSwiY3J1YXR1ZCI6IjIwMTgtMDUtMDJUMDg6NDU6MTYu0DYwWiIsImFydGlmYWN0cyI6W3sicmVwb19wYXRoIjoizXhhbXBsZS1yZXBvLwvY2FsL2FjaGFuZ2UvU2NyZwVuIFNob3QgMjAxOC0wNC0wNSBhdCAXMC40Ny4xNi5wbmcilCJjaGVja3N1bSI6IjVhNzMWYjAxZTgxZTjhYTNiNTE40GJjZWYzYmU4ZTR1N2Q2MWY4M2I2MTU2YjIyYTmZy1hM2YyM2ZmMzh1MTkiLCJwcm9wcyI6W3sia2V5IjoiamlyYSIsInZhBHV1cyI6WyIxI119XX0seyJyZXvX3BhdGgi0iJleGFtcGx1LXJlcG8tbG9jYwvWYwNoYW5nZS9TY3J1ZW4gU2hvdCAyMDE4LTA0LTA1IGF0IDEwLjQ3LjE2ICgyKS5wbmcilCJjaGVja3N1bSI6IjIzMzY2Mzk5N2EyZGYxY2FmZDzHwI1NjkxNjZhZjkxJzJyZzDQwZjRmNDFiNjgxY2J1N2RmMj1kMWE1YzE3MGEiLCJwcm9wcyI6W3sia2V5IjoiamlyYSIsInZhBHV1cyI6WyIxI119XX0seyJyZXvX3BhdGgi0iJleGFtcGx1LXJlcG8tbG9jYwvWYwNoYW5nZS9TY3J1ZW4gU2hvdCAyMDE4LTA0LTA1IGF0IDEwLjQ3LjE2IDEucG5nIiwiY2h1Y2tzdW0i0iI1YTczMGIwMWU4MWUyYWEzYjUxODhiY2VmM2J1OGU0ZTdkNjFmODNiNjE1NmIyMmEZM2M5YTNmMjNmZjM4ZTE5IiwichJvcHMi0lt7ImtlesI6ImppcmEiLCJ2Ywx1ZXMi0lsimSJdfV19LhsicmVwb19wYXRoIjoizXhhbXBsZS1yZXBvLwvY2FsL2FjaGFuZ2UvU2NyZwVuIFNob3QgMjAxOC0wNC0wNSBhdCAXMC40Ny4xNiAoMykucG5nIiwiY2h1Y2tzdW0i0iIjYmZjZjk0NzkzYzQ1ZTk5NmY2YTQx0DY5M2zjYjBhZDU1NzRkMzJiYzUwN2NjNmVjMDAzMDkxMfjMWQ3MDUzIiwichJvcHMi0lt7ImtlesI6ImppcmEiLCJ2Ywx1ZXMi0lsimSJdfV19XX0.QWzTD2uXhLw5FW1483qEYA_h47jak8YE24mlwuF1UcT9yTYZBdEMrFWTz0uZvPtlqi65Ek6oNeSFZ0657sjpuT0pfPIg053nxOoIa4mx1xMS5nCM50Xj3qobcl10P_sX8I18AGWbX9oI9hvSGAKYbxmu-3kVs0W1tCacb_VuHsL5KkgY2Thq5dBKhQ73aS1cE-CnfobQKGcsx10eFhEFV8VbaJGLpKV8nhERDE4XA5oRARA-CczL1EYNvn5aRD-Q1n5yI7Cys8hoDIxDLT20CQ5alb9h4D4w7mGJrtQG0xNwsstGOTSL1HLXAE27qvBxCisp6afX675AkOs1Eg0g
```

### 5.4.8 | Get Latest Release Bundle v1 Version

**Description:** Retrieves the latest version of a Release Bundle v1.

#### Important

For information about getting Release Bundle v2 versions, see [Release Bundle V2 APIs](#).

**Note:** Latest is a reserved word. Release Bundle versions cannot contain this word.

**Since:** 2.3.0

**Security:** Authenticated users only. Users must have read permissions for the Release Bundle.

**Usage:** /api/v1/release\_bundle/:name/:LATEST

**Request headers:** N/A

**Consumes:** N/A

**cURL**

**cURL Example**

```
$ curl -u user:password "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/release_bundle/:name/LATEST"
```

**Response status codes:**

200 - Success

403 - No permission for the Release Bundle

404 - Release Bundle or Release Bundle version not found

#### Response

**format=json**

```
{  
  "name": "the_release_bundle",  
  "version": "1.0.0",  
  "files": [  
    {"name": "file1.txt", "size": 1024},  
    {"name": "file2.txt", "size": 2048},  
    {"name": "file3.txt", "size": 4096}  
  ]  
}
```

# JFrog REST APIs Displayed in the header

```
"version": "6",
"storing_repository": "release-bundles",
"description": "Maven bundle description",
"created": "2020-05-03T12:33:40.759+0300",
"created_by": "[username]",
"distributed_by": "[username]",

"artifacts": [
  {
    "checksum": "d4f8baa9d0b46aa1e5d9e60bfd7acc1265c51723844d81ad0b2dfc9f702e89f8",
    "props": [],
    "sourceRepoPath": "release-bundles/the_release_bundle/6/example-repo-local/folder1/public_key.txt",
    "targetRepoPath": "example-repo-local/folder1/public_key.txt"
  },
  {
    "checksum": "c7e875ebb4a69de287eb040375a88d254acf85c2b69dc9a59689d657e7f2d3cb",
    "props": [],
    "sourceRepoPath": "release-bundles/the_release_bundle/6/example-repo-local/audio-1.5.0.tar.gz",
    "targetRepoPath": "example-repo-local/audio-1.5.0.tar.gz"
  }
],
"artifacts_size": 2892,
"archived": false,
"state": "SIGNED",
"spec": {
  "queries": [
    {
      "aql": "items.find({ \"repo\": \"example-repo-local\" })",
      "query_name": "query-0",
      "mappings": [],
      "added_props": [],
      "query_type": "AQL"
    }
  ],
  "exclude_props_patterns": [
    "example_exclude_prop_pattern_1",
    "example_example_prop_pattern_2"
  ]
}
}
```

## 5.4.9 | Delete Release Bundle v1 All Versions

**Description:** Deletes all versions of a Release Bundle v1 on JFrog Distribution only. To delete from the Distribution Edge where it was distributed, see Delete Release Bundle Version from Distribution Edges.

**Since:** 1.0

**Security:** Authenticated users only. User must have delete permission for the release bundle.

**Usage:** DELETE /api/v1/release\_bundle/:name

**Request headers:** N/A

**Consumes:** N/A

**cURL Example**

```
$ curl -u user:password -X DELETE "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/release_bundle/:name"
```

**Response status codes:**

204 - Successfully deleted release bundle versions

404 - Release bundle not found

**Response headers:** N/A

Produces: N/A

#### 5.4.10 | Delete Release Bundle v1 Version

**Description:** Deletes specific Release Bundle v1 version on JFrog Distribution only.

**Since:** 1.0

**Security:** Authenticated users only. User must have delete permission for the release bundle to delete it from the Distribution Edge where it was distributed. See Delete Release Bundle Version from Distribution Edges.

**Usage:** DELETE /api/v1/release\_bundle/:name/:version

**Request headers:** N/A

**Consumes:** N/A

**cURL Example**

```
$ curl -u user:password -X DELETE "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/release_bundle/:name/:version"
```

**Response status codes:**

204 - Successfully deleted release bundle version

404 - Release bundle or release bundle version not found

**Response headers:** N/A **Produces:** N/A

#### 5.4.11 | Export Release Bundle v1 Version Archived File

**Description:** Triggers the Release Bundle v1 export process from JFrog Distribution. For more information, see Distribute Release Bundles (v1) in an Air Gap Environment.

**Note:** The Import process is performed on the Distribution Edge. For more information, see Import Release Bundle Version.

**Since:** 2.5

**Security:** Authenticated users only. Users must have matching Release Bundle distribute permissions.

**Usage:** POST api/v1/export/release\_bundle/{name}/{version}

**cURL Example**

```
curl -XPOST 'http://localhost:8082/distribution/api/v1/export/release_bundle/{name}/{version}' -uadmin:password
```

Field	Type	Required	Default Value	Since	Description
name	String	yes	N/A	2.5	Release bundle name
version	String	yes	N/A	2.5	Release bundle version

**Response status codes:**

202 - Successfully triggered the process of generating an archived Export version

400 - Failed to generate an export version archive file

## 5.4.12 | Get Exported Release Bundle v1 Version Status

**Description:** Gets the status of an exported Release Bundle v1 process. For more information, see Distribute Release Bundles (v1) in an Air Gap Environment.

### Important

For information about getting the status of an exported Release Bundle v2 version, see [Get Exported Release Bundle Version v2 Status](#).

**Since:** 2.5

**Security:** Authenticated users only. Users must have matching Release Bundle distribute permissions.

**Usage:** GET `api/v1/export/release_bundle/{name}/{version}/status`

**Consumes:** application/json

### cURL Example

```
curl -XGET 'http://localhost:8082/distribution/api/v1/export/release_bundle/{name}/{version}/status' -uadmin:password
```

### Response status codes:

202 - Successful request

400 - Failed to return the status

### format=json

```
{
    "status": "IN_PROGRESS|FAILED|NOT_TRIGGERED|COMPLETED",
    "message": "optional message in case failed and we have some info to pass",
    "download_url": "http://artifactory_url/path_if_status_completed"
}
```

## 5.4.13 | Delete Exported Release Bundle v1 Archive File

### Note

This API is intended only for users working in a Self-Hosted environment.

**Description:** Deletes the exported Release Bundle v1 archive from Distribution. For more information, see Distribute Release Bundles (v1) in an Air Gap Environment.

**Since:** 2.5

**Security:** Authenticated users only. Users must have delete permissions for the Release Bundle.

**Usage:** DELETE `api/v1/export/release_bundle/{name}/{version}`

**Consumes:** N/A

### cURL Example

```
curl -X DELETE 'http://localhost:8082/distribution/api/v1/export/release_bundle/{name}/{version}'
```

## 5.5 | RELEASE BUNDLES V2

The following APIs are related to distributed Release Bundle v2 versions:

# JFrog REST APIs Displayed in the header

- Get Received Release Bundles (v2)
- Get Received Release Bundle v2 Versions
- Get Received Release Bundle v2 Version Status
- Get Received Release Bundle v2 Version Artifact List
- Delete Release Bundle v2 Version from Target

## 5.5.1 | Get Received Release Bundles (v2)

**Description:** Returns a list of distributed Release Bundles (v2) that have been received by this target (for example, an Edge node).

**Since:** 7.103.1 (Artifactory), 2.28.1 (Distribution)

**Security:** Requires an admin user.

**Usage:** GET /api/v2/release\_bundle/received

**Query Parameters (optional):**

Field	Type	Description
offset	integer	Sets the number of records to skip before returning the query response. Used for pagination purposes.  The default is 0.
limit	integer	Sets the maximum number of versions to return at one time. Used for pagination purposes.  The default is 100.
pattern	string	Defines a filter for the list of Release Bundle names.  You can filter by release_bundle_version or bundle_name.  The default is ** (all).
order_by {name source_project_key date_received}	string	Defines the criterion by which to order the list of received Release Bundles: <ul style="list-style-type: none"><li>• name: Release Bundle name</li><li>• source_project_key: The project name from the source Artifactory.</li><li>• date_received: When the Release Bundle was received.</li></ul>
order_asc {true false}	boolean	Defines whether to list the results of the order_by column in ascending (true) or descending (false) order.  The default value is false.

**Sample Response:**

```
{  
  "release_bundles": [
```

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```
{  
    "name": "rb-test-1",  
    "latest_version": "3.0.2",  
    "source_project_key": "default"  
    "date_received": 123654789  
    "number_of_versions": 3  
,  
{  
    "name": "rb-test-10",  
    "latest_version": "1.3.0",  
    "source_project_key": "test-project",  
    "date_received": 223654789,  
    "number_of_versions": 2  
}  
,  
]  
"total": "2"  
}
```

The response includes the following information:

Property	Type	Description
name	string	The Release Bundle name.
latest_version	string	The latest Release Bundle version received.
source_project_key	string	The project name from the source Artifactory.
date_received	date	The date when the latest Release Bundle version was received.
number_of_versions	integer	The number of versions of the Release Bundle that have been received.

### Status Codes:

Code	Description
200	Fetched
403	Permission Denied
404	Not Found

### 5.5.2 | Get Received Release Bundle v2 Versions

## JFrog REST APIs Displayed in the header

**Description:** Returns a list of versions of a specified Release Bundle v2 that have been received by this distribution target (for example, an Edge node).

**Since:** 7.103.1 (Artifactory), 2.28.1 (Distribution)

**Security:** Requires an admin user.

**Usage:** GET /api/v2/release\_bundle/received/{release\_bundle\_name}

**Query Parameters (optional):**

Field	Type	Description
source_project_key	string	Defines the project name associated with the Release Bundle on the source Artifactory.
offset	integer	Sets the number of records to skip before returning the query response. Used for pagination purposes.  The default is 0.
limit	integer	Sets the maximum number of versions to return at one time. Used for pagination purposes.  The default is 100.
pattern	string	Defines a filter for the list of Release Bundle versions. For example, if you define *2* as the pattern, it returns all versions containing the number 2.  The default is ** (all).
order_asc {true false}	boolean	Defines whether to list the versions in ascending (true) or descending (false) order.  The default value is false.

**Sample Response:**

```
{  
  "versions": [  
    {  
      "version": "3.0.2",  
      "date_received": 123654789,  
      "size": 3333  
    },  
    {  
      "version": "2.9.1",  
      "date_received": "123654788",  
      "size": 3323433  
    },  
    {  
      "version": "1.0.5",  
      "date_received": "123654787",  
      "size": 1234  
    }  
],  
  "total": 3  
}
```

The response includes the following information:

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Property	Type	Description
version	string	The Release Bundle version identifier.
date_received	date	The date when the latest Release Bundle version was received.
size	integer	The total size of all artifacts in the Release Bundle version.

### Status Codes:

Code	Description
200	Fetched
403	Permission Denied
404	Not Found

### 5.5.3 | Get Received Release Bundle v2 Version Status

**Description:** Returns the status of the specified Release Bundle v2 version received by this distribution target (for example, an Edge node).

**Since:** 7.103.1 (Artifactory), 2.28.1 (Distribution)

**Security:** Requires an admin user.

**Usage:** GET /api/v2/release\_bundle/received/{release\_bundle\_name}/{release\_bundle\_version}/status

#### Query Parameters (optional):

Field	Type	Description
source_project_key	string	Defines the project name associated with the Release Bundle on the source Artifactory.

#### Sample Response (without errors):

```
{
  "status": "COMPLETED"
}
```

#### Sample Response (with errors):

```
{
  "status": "FAILED",
  "messages": [
    ...
  ]
}
```

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```
{  
    "text": "Invalid AQL query for Release Bundle creation"  
}  
]  
}
```

The response includes the following information:

Property	Description
status	The status of the Release Bundle version. Possible values include: <ul style="list-style-type: none"><li>• STARTED: Distribution of the Release Bundle version to this target is in progress.</li><li>• COMPLETED: The Release Bundle version was received successfully.</li><li>• FAILED: The Release Bundle was not received successfully.</li></ul>
messages	Error messages generated by a failed distribution.

### Status Codes:

Code	Description
200	Fetched
403	Permission Denied
404	Not Found

### 5.5.4 | Get Received Release Bundle v2 Version Artifact List

**Description:** Returns a list of artifacts in the specified version of a Release Bundle v2 received by this distribution target (for example, an Edge node).

**Since:** 7.103.1 (Artifactory), 2.28.1 (Distribution)

**Security:** Requires an admin user.

**Usage:** GET /api/v2/release\_bundle/received/{release\_bundle\_name}/{release\_bundle\_version}/artifacts

**Query Parameters (optional):**

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Field	Type	Description
source_project_key	string	Defines the project name associated with the Release Bundle on the source Artifactory.
offset	integer	Sets the number of records to skip before returning the query response. Used for pagination purposes.  The default is 0.
limit	integer	Sets the maximum number of versions to return at one time. Used for pagination purposes.  The default is 100.
pattern {artifact_name package_type path size checksum}	string	Defines a filter for the list of artifacts.  You can filter according to: <ul style="list-style-type: none"> <li>• artifact_name</li> <li>• package_type</li> <li>• path</li> <li>• size</li> <li>• checksum</li> </ul> The default is ** (all).
order_by {artifact_name package_type path size checksum}	string	Defines the criterion by which to order the Release Bundle artifacts: <ul style="list-style-type: none"> <li>• artifact_name</li> <li>• package_type</li> <li>• path</li> <li>• size</li> <li>• checksum</li> </ul>
order_asc {true false}	boolean	Defines whether to list the promotions in ascending (true) or descending (false) order.  The default value is false.

**Sample Response:**

```
{
  "artifacts": [
    {
      "artifact_name": "file1.ext",
      "package_type": "nuget"
      "path": "nugat-repo/folder/file1.ext"
      "size": 3000
      "checksum": "123abcd456"
    }
  ]
}
```

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```
"properties": {  
    "build_number": "565"  
    "property_1": "value_1"  
}  
,  
{  
    "artifact_name": "file2.ext",  
    "package_type": "nuget"  
    "path": "nugat-repo/folder/file2.ext"  
    "size": 333  
    "checksum": "789abcd1011"  
    "properties": {  
        "property_2": "value_2"  
    }  
}  
]  
}
```

The response includes the following information:

Property	Description
properties	The values of any optional properties associated with the artifact.

### Status Codes:

Code	Description
200	Fetched
403	Permission Denied
404	Not Found

### 5.5.5 | Delete Release Bundle v2 Version from Target

**Description:** Deletes the received Release Bundle v2 version from the target device (for example, an Edge node).

#### Note

To delete a Release Bundle **v1** version from the target, see [Delete Release Bundle v1 Version from Distribution Edges](#). For information about the difference between v1 and v2 Release Bundles, see [Types of Release Bundles](#).

#### Warning

Deleted Release Bundle v2 versions are **not** sent to the trash can even when the trash can is enabled. This means that once deleted, the version cannot be recovered.

**Since:** 7.103.1 (Artifactory), 2.28.1 (Distribution)

**Security:** Requires an admin user.

**Usage:** `DELETE /api/v2/release_bundle/received/{release_bundle_name}/{release_bundle_version}`

# JFrog REST APIs Displayed in the header

Query Parameters (optional):

Field	Type	Description
source_project_key	string	Defines the project name associated with the Release Bundle on the source Artifactory.
async	boolean	Determines whether the operation should be asynchronous (true) or synchronous (false). The default value is true.

Response body: {empty}

Status Codes:

Code	Description
200	Submitted (Async)
204	Deleted (Sync)
401	Bad Credentials
403	Permission Denied
404	Not Found

## 5.6 | DISTRIBUTION

### 5.6.1 | Distribute Release Bundle v1 Version

**Description:** Schedules a Release Bundle v1 version for distribution to Distribution Edges. Action tracking ID will be returned.

#### Important

For information about distributing a Release Bundle v2 version, see [Distribute Release Bundle Version v2](#).

**Since:** 1.0

**Security:** Authenticated users only. User must have distribution permission for the release bundle. The Distribution Edges will be filtered by the user's permissions.

#### Change in Permissions from Release 2.13.2

From Distribution 2.13.2, the user must have:

- **Read and deploy** permissions on the target repositories
- **Permissions** on the destination repository
- **Distribution permissions** on the required Release Bundle

# JFrog REST APIs Displayed in the header

This is a breaking change from previous versions, whereby any user with any permissions could distribute release bundles.

**Usage:** POST /api/v1/distribution/{name}/{version}

**Request headers:** N/A

**Consumes:** application/json

## cURL Example

```
$ curl -u user:password -H "Content-Type: application/json" -X POST  
"http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/distribution/:name/:version" -T distribute.json
```

## distribute.json

```
{  
  "dry_run": true|false,  
  "auto_create_missing_repositories": true|false,  
  "distribution_rules": [  
    {  
      "site_name": "?wildcard*",  
      "city_name": "?wildcard*",  
      "country_codes": ["?wildcard*"]  
    }  
  ]  
}
```

Field	Type	Required	Default Value	Description
dry_run	Boolean	no	false	If true, only parses and validates.  <b>Note:</b> this parameter default was previously set to true in versions below 2.x.
auto_create_missing_repositories	Boolean	no	false	From version 2.8.1.  If true, this enables you to automatically create missing target repositories on the target edges or Artifactory when distributing Release Bundles. For more information, see Target Repository Auto-Creation.
distribution_rules	List (Object)	yes	N/A	Describes the filters by which Distribution Edge are selected. Must resolve at least one edge.
distribution_rules.site_name	String	no	"*"	Wildcard filter for site name
distribution_rules.city_name	String	no	"*"	Wildcard filter for site city name
distribution_rules.country_codes	List (String)	no	[ "*" ]	Wildcard filters for site country codes

## Response status codes:

200 - Success for dry\_run

202 - Successfully scheduled distribution

# JFrog REST APIs Displayed in the header

400 - Release bundle version must be signed before distribution

404 - Release bundle or release bundle version not found

**Response headers:** N/A

**Produces:** application/json

## Response

```
{  
  "id": 188527534551203840,  
  "sites": [  
    {  
      "service_id": "jfrt@01cc8hkzy1zgtc1wqw3zk41p2a",  
      "name": "US_NY_Art01",  
      "type": "edge"  
    },  
    ...  
  ]  
}
```

## 5.6.2 | Stop Release Bundle Version Distribution

**Description:** Stop a release bundle version distribution to Distribution Edges.

**Since:** 1.1

**Security:** Authenticated users only. The user must have distribution permission for the Release Bundle. The Edge nodes will be filtered by the user's permissions.

**Usage:** PUT /api/v1/distribution/{name}/{version}/abort

**Request headers:** N/A

**Consumes:** application/json

## cURL Example

```
$ curl -u user:password -X PUT  
"http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/distribution/:name/:version/abort"
```

## Response status codes:

202 - Successfully scheduled distribution interruption. Returns the list of Distribution Edges affected by the stop request.

204 - No Distribution Edge with distribution in progress found

404 - Release bundle or release bundle version not found

**Response headers:** N/A

**Produces:** application/json

## Response

```
[  
  {  
    "name": "US_NY_Art01",  
    "service_id": "jfrt@01cejrg5ack7dd1v3r213a0vx9",  
    "type": "edge"  
  },  
  {  
    "name": "UK_LN_Art02",  
    "service_id": "jfrt@01cejrfwjjt65d1g9asq8h1cda",  
    "type": "edge"  
  }  
]
```

## JFrog REST APIs Displayed in the header

### 5.6.3 | Delete Release Bundle v1 Version from Distribution Edges

**Description:** Schedules a Release Bundle v1 version for deletion in Distribution Edges. Action tracking ID will be returned. Have a parameter to keep or delete the Release Bundle v1 from JFrog Distribution on success.

**Since:** 1.0

**Security:** Authenticated users only. User must have distribution delete permission for the release bundle. The Distribution Edges will be filtered by the user's permissions.

**Usage:** POST /api/v1/distribution/:name/:version/delete

**Request headers:** N/A

**Consumes:** application/json

#### cURL Example

```
$ curl -u user:password -H "Content-Type: application/json" -X POST  
"http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/distribution/bundle98/version100/delete" -T delete.json
```

#### delete.json

```
{  
  "dry_run": true|false,  
  "distribution_rules": [  
    {  
      "site_name": "?wildcard*",  
      "city_name": "?wildcard*",  
      "country_codes": ["?wildcard*"]  
    }  
  ],  
  "on_success": "keep|delete"  
}
```

Field	Type	Required	Default Value	Description
dry_run	Boolean	no	true	If true, only parses and validates
distribution_rules	List (Object)	yes	N/A	Describes the filters by which Distribution Edges are selected. Must resolve at least one edge.
distribution_rules.site_name	String	no	"*"	Wildcard filter for site name
distribution_rules.city_name	String	no	"*"	Wildcard filter for site city name
distribution_rules.country_codes	List (String)	no	[ "*" ]	Wildcard filters for site country codes
on_success	String	no	keep	Action to be performed on the release bundle version in JFrog Distribution itself after deletion is complete in the specified Distribution Edge/s.

#### Response status codes:

200 - Success for dry\_run

# JFrog REST APIs Displayed in the header

202 - Successfully scheduled deletion

404 - Release bundle or release bundle version not found

**Response headers:** N/A

**Produces:** application/json

## Response

```
{  
  "id": 188527534551203840,  
  "sites": [  
    {  
      "service_id": "jfrt@01cc8hkzy1zgtc1wqw3zk41p2a",  
      "name": "US_NY_Art01",  
      "type": "edge"  
    },  
    ...  
  ]  
}
```

## 5.6.4 | Get Distribution Status Details

**Description:** Get status details for all Release Bundle v1 distributions.

### Note

To get distribution status details for Release Bundle **v2** distributions, see [Get Release Bundle V2 Distributions](#).

**Since:** 1.0

**Security:** Authenticated users only.

### Note

Only distributions of Release Bundles to which the user has read permissions are displayed.

**Usage:** GET api/v1/release\_bundle/distribution

**Request Headers:** N/A

**Consumes:** N/A

### cURL Example

```
$ curl -u user:password -X GET "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/release_bundle/distribution"
```

### Response status codes:

200 - Success

**Response headers:** N/A

**Produces:** application/json

## Response

```
[  
  {  
    "distribution_id": 188527534551203840,  
    "distribution_friendly_id": 1,  
    "created_by": "[username]",  
    "distributed_by": "[username]",  
    "start_time": "[YYYY-MM-DDTHH:HH:MM:SS.MI:Sec+UTC]",  
    "finish_time": "[YYYY-MM-DDTHH:HH:MM:SS.MI:Sec+UTC]", "duration": "[milliseconds]", "type": "distribute |  
    delete_release_bundle_version",  
    "release_bundle_name": "release-bundle",  
    "release_bundle_version": "1.0.0",  
  }]
```

## JFrog REST APIs Displayed in the header

```
"status": "Not distributed | In progress | Completed | Failed",
"distribution_rules": [
  {
    "site_name": "*",
    "city_name": "*",
    "country_codes": ["*"]
  },
  ...
],
"sites": [
  {
    "status": "Not distributed | In progress | Completed | Failed",
    "general_error": "<error explanation>",
    "target_artifactory": {
      "service_id": "jfprt@01cc8hkzy1zgzc1wqw3zk41p2a",
      "name": "US_NY_Art01",
      "type": "edge"
    },
    "total_files": 4,
    "total_bytes": 4403784,
    "distributed_bytes": 0,
    "distributed_files": 0,
    "general_error": "",
    "file_errors": [],
    "files_in_progress": []
  },
  ...
]
},
...
]
```

### 5.6.5 | Get Distribution Status Details by Release Bundle v1 Name

**Description:** Get status details for all distributions of all versions of a Release Bundle v1.

**Since:** 1.0

**Security:** Authenticated users only. User must have read permission for the release bundle.

**Usage:** GET api/v1/release\_bundle/:name/distribution

**Request Headers:** N/A

**Consumes:** N/A

#### cURL Example

```
$ curl -u user:password -X GET
"http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/release_bundle/:name/distribution"
```

#### Response status codes:

200 - Success

**Response headers:** N/A

**Produces:** application/json

#### Response

```
[
  {
    "distribution_id": 188527534551203840,
    "distribution_friendly_id": 1,
    "created_by": "[username]",
    "distributed_by": "[username]",
    "start_time": "[YYYY-MM_DDTHH:HH:MM:SS.MI:Sec+UTC]",
    "finish_time": "[YYYY-MM_DDTHH:HH:MM:SS.MI:Sec+UTC],
```

# JFrog REST APIs Displayed in the header

```
"type": "distribute | delete_release_bundle_version",
"release_bundle_name": "release-bundle",
"release_bundle_version": "1.0.0",
"status": "Not distributed | In progress | Completed | Failed",
"distribution_rules": [
  {
    "site_name": "*",
    "city_name": "*",
    "country_codes": ["*"]
  },
  ...
],
"sites": [
  {
    "status": "Not distributed | In progress | Completed | Failed",
    "general_error": "<error explanation>",
    "target_artifactory": {
      "service_id": "jfrt@01cc8hkzy1zgzc1wqw3zk41p2a",
      "name": "US_NY_Art01",
      "type": "edge"
    },
    "total_files": 4,
    "total_bytes": 4403784,
    "distributed_bytes": 0,
    "distributed_files": 0,
    "general_error": "",
    "file_errors": [],
    "files_in_progress": []
  },
  ...
]
},
...
]
```

## 5.6.6 | Get Distribution Status Details by Release Bundle v1 Version

**Description:** Get status details for all distributions of a specific Release Bundle v1 version.

**Since:** 1.0

**Security:** Authenticated users only. User must have read permission for the Release Bundle.

**Usage:** GET api/v1/release\_bundle/:name/:version/distribution

**Request Headers:** N/A

**Consumes:** N/A

### cURL Example

```
$ curl -u user:password -X GET
"http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/release_bundle/:name/:version/distribution"
```

### Response status codes:

200 - Success

**Response headers:** N/A

**Produces:** application/json

### Response

```
[
  {
    "distribution_id": 188527534551203840,
    "distribution_friendly_id": 1,
```

# JFrog REST APIs Displayed in the header

```
"type": "distribute | delete_release_bundle_version",
"release_bundle_name": "release-bundle",
"release_bundle_version": "1.0.0",
"status": "Not distributed | In progress | Completed | Failed",
"distribution_rules": [
  {
    "site_name": "*",
    "city_name": "*",
    "country_codes": ["*"]
  },
  ...
],
"sites": [
  {
    "status": "Not distributed | In progress | Completed | Failed",
    "general_error": "<error explanation>",
    "target_artifactory": {
      "service_id": "jfrt@01cc8hkzy1zgtc1wqw3zk41p2a",
      "name": "US_NY_Art01",
      "type": "edge"
    },
    "total_files": 4,
    "total_bytes": 4403784,
    "distributed_bytes": 0,
    "distributed_files": 0,
    "general_error": "",
    "file_errors": [],
    "files_in_progress": []
  },
  ...
]
},
...
]
```

## 5.6.7 | Get Distribution Status Details by Tracker Id

**Description:** Get status details for a specific distribution.

**Since:** 1.0

**Security:** Authenticated users only. User must have read permission for the release bundle.

**Usage:** GET api/v1/release\_bundle/:name/:version/distribution/:tracker\_id

**Request Headers:** N/A

**Consumes:** N/A

### cURL Example

```
$ curl -X GET -u user:password
"http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/release_bundle/:name/:version/distribution/:tracker_id"
```

### Response status codes:

200 - Success

**Response headers:** N/A

**Produces:** application/json

### Response

```
{
  "distribution_id": 188527534551203840,
  "distribution_friendly_id": 1,
  "created_by": "[username]",
  "distributed_by": "[username]",
```

# JFrog REST APIs Displayed in the header

```
"start_time": "[YYYY-MM-DDTHH:HH:MM:SS.MI:Sec+UTC]",  
"finish_time": "[YYYY-MM-DDTHH:HH:MM:SS.MI:Sec+UTC]",  
"type": "distribute | delete_release_bundle_version",  
"release_bundle_name": "release-bundle",  
"release_bundle_version": "1.0.0",  
"status": "Not distributed | In progress | Completed | Failed",  
"distribution_rules": [  
    {  
        "site_name": "*",  
        "city_name": "*",  
        "country_codes": ["*"]  
    },  
    ...  
],  
"sites": [  
    {  
        "status": "Not distributed | In progress | Completed | Failed",  
        "general_error": "<error explanation>",  
        "target_artifactory": {  
            "service_id": "jfrt@01cc8hkzy1zgzc1wqw3zk41p2a",  
            "name": "US_NY_Art01",  
            "type": "edge"  
        },  
        "total_files": 4,  
        "total_bytes": 4403784,  
        "distributed_bytes": 0,  
        "distributed_files": 0,  
        "general_error": "",  
        "file_errors": [],  
        "files_in_progress": []  
    },  
    ...  
]  
}
```

## 5.6.8 | Get the Open Metrics for Distribution

**Description:** Returns the open metrics collected for JFrog Distribution.

**Since:** 2.18.1

**Security:** Requires an admin user

**Usage:** GET /api/v1/metrics

**Produces:** text/plain (in Open Metrics format)

**Sample Usage:**

```
GET /api/v1/metrics

If metrics is not enabled - empty text.  
If enabled :  
# TYPE jfds_total_number_of_distribution_requests counter  
# HELP jfds_total_number_of_distribution_requests number of distribute start actions  
jfds_total_number_of_distribution_requests_total{application="Distribution",category="distribution"} 49.0 1723100546945  
# TYPE jfds_number_of_distributions_per_status counter  
# HELP jfds_number_of_distributions_per_status number of distributions per state  
jfds_number_of_distributions_per_status_total{application="Distribution",category="distribution",status="completed"} 112.0  
1723100546945  
jfds_number_of_distributions_per_status_total{application="Distribution",category="distribution",status="failed"} 6.0  
1723100546945  
# TYPE jfds_number_of_artifacts_in_release_bundle_version_max gauge  
# HELP jfds_number_of_artifacts_in_release_bundle_version_max number of artifacts in a release bundle  
jfds_number_of_artifacts_in_release_bundle_version_max{application="Distribution",category="release_bundle_version"} 1.0  
1723100546945  
# TYPE jfds_number_of_artifacts_in_release_bundle_version histogram  
# HELP jfds_number_of_artifacts_in_release_bundle_version number of artifacts in a release bundle
```

# JFrog REST APIs Displayed in the header

```
jfds_number_of_artifacts_in_release_bundle_version_bucket{application="Distribution",category="release_bundle_version",le="100.0"} 106.0 1723100546945
jfds_number_of_artifacts_in_release_bundle_version_bucket{application="Distribution",category="release_bundle_version",le="50.0"} 110.0 1723100546945
jfds_number_of_artifacts_in_release_bundle_version_bucket{application="Distribution",category="release_bundle_version",le="100.0"} 111.0 1723100546945
jfds_number_of_artifacts_in_release_bundle_version_bucket{application="Distribution",category="release_bundle_version",le="500.0"} 121.0 1723100546945
jfds_number_of_artifacts_in_release_bundle_version_bucket{application="Distribution",category="release_bundle_version",le="1000.0"} 121.0 1723100546945
jfds_number_of_artifacts_in_release_bundle_version_bucket{application="Distribution",category="release_bundle_version",le="5000.0"} 121.0 1723100546945
jfds_number_of_artifacts_in_release_bundle_version_bucket{application="Distribution",category="release_bundle_version",le="10000.0"} 121.0 1723100546945
jfds_number_of_artifacts_in_release_bundle_version_bucket{application="Distribution",category="release_bundle_version",le="50000.0"} 121.0 1723100546945
jfds_number_of_artifacts_in_release_bundle_version_bucket{application="Distribution",category="release_bundle_version",le="100000.0"} 121.0 1723100546945
jfds_number_of_artifacts_in_release_bundle_version_count{application="Distribution",category="release_bundle_version"} 121.0 1723100546945
jfds_number_of_artifacts_in_release_bundle_version_sum{application="Distribution",category="release_bundle_version"} 1705.0 1723100546945
# TYPE jfds_number_of_modifications_of_repo counter
# HELP jfds_number_of_modifications_of_repo number of modifications of original repository
jfds_number_of_modifications_of_repo_total{application="Distribution",category="release_bundle_version"} 14.0 1723100546945
# TYPE jfds_stuck_distributions_by_status gauge
# HELP jfds_stuck_distributions_by_status
jfds_stuck_distributions_by_status{application="Distribution",status="in_progress"} 0.0 1723100546945
jfds_stuck_distributions_by_status{application="Distribution",status="notstarted"} 0.0 1723100546945
jfds_stuck_distributions_by_status{application="Distribution",status="aborting_in_progress"} 0.0 1723100546945
jfds_stuck_distributions_by_status{application="Distribution",status="closed_tx"} 0.0 1723100546945
# TYPE jfds_number_of_open_tx_missing_repositories counter
# HELP jfds_number_of_open_tx_missing_repositories number of distribution failures due to missing repositories on Artifactory edge in open tx
jfds_number_of_open_tx_missing_repositories_total{application="Distribution",category="distribution_user_failures",issue_type="open_tx"} 7.0 1723100546945
# TYPE jfds_total_number_of_distribution_requests_v2 counter
# HELP jfds_total_number_of_distribution_requests_v2 number of v2 distribute start actions
jfds_total_number_of_distribution_requests_v2_total{application="Distribution",category="distribution"} 60.0 1723100546945
# TYPE jfds_number_of_close_tx_bad_request counter
# HELP jfds_number_of_close_tx_bad_request number of distribution failures due to SC_BAD_REQUEST from Artifactory in close tx
jfds_number_of_close_tx_bad_request_total{application="Distribution",category="distribution_applicative_failures",issue_type="close_tx"} 1.0 1723100546945
# TYPE jfds_number_of_approved_distributions counter
# HELP jfds_number_of_approved_distributions number of approved release bundle distributions/exports
jfds_number_of_approved_distributions_total{application="Distribution",category="xray_scans"} 59.0 1723100546945
# TYPE jfds_number_of_queries_with_path_mapping counter
# HELP jfds_number_of_queries_with_path_mapping number of queries with path mapping
jfds_number_of_queries_with_path_mapping_total{application="Distribution",category="release_bundle_version"} 21.0 1723100546945
# TYPE jfds_number_of_exports_per_status_v2 counter
# HELP jfds_number_of_exports_per_status_v2 number of v2 exports per state
jfds_number_of_exports_per_status_v2_total{application="Distribution",category="export",status="failed"} 2.0 1723100546945
jfds_number_of_exports_per_status_v2_total{application="Distribution",category="export",status="completed"} 8.0 1723100546945
# TYPE jfds_total_number_of_distribution_requests_with_project_v2 counter
# HELP jfds_total_number_of_distribution_requests_with_project_v2 number of v2 distribute start actions with project
jfds_total_number_of_distribution_requests_with_project_v2_total{application="Distribution",category="project"} 8.0 1723100546945
# TYPE jfds_number_of_rejected_distributions counter
# HELP jfds_number_of_rejected_distributions number of rejected release bundle distributions/exports
jfds_number_of_rejected_distributions_total{application="Distribution",category="xray_scans"} 3.0 1723100546945
# TYPE jfds_total_number_of_release_bundles counter
# HELP jfds_total_number_of_release_bundles total number of created release bundles
jfds_total_number_of_release_bundles_total{application="Distribution",category="release_bundle"} 112.0 1723100546945
# TYPE jfds_redis_tasks gauge
# HELP jfds_redis_tasks
jfds_redis_tasks{application="Distribution",queue="pending"} 1.0 1723100546945
jfds_redis_tasks{application="Distribution",queue="working"} 1.0 1723100546945
```

# JFrog REST APIs Displayed in the header

```
jfds_redis_tasks{application="Distribution",queue="staging"} 1.0 1723100546945
# TYPE jfds_number_of_api_requests_per_endpoint counter
# HELP jfds_number_of_api_requests_per_endpoint number of API requests per endpoint
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/keys/{protocol: pgp|gpg}/{alias}",http_method="delete",status_code="200",user_agent="browser"} 3.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/export/release_bundle/{release_bundle_name}/{release_bundle_version}",http_method="post",status_code="403",user_agent="rest_client"} 2.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/base:v2/ui_v2/distribution/remote_delete/{release_bundle_name}/{release_bundle_version}",http_method="post",status_code="202",user_agent="rest_client"} 13.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/ui/release_bundle/{release_bundle_name}/{release_bundle_version}/aggregated_distribution_progress",http_method="get",status_code="200",user_agent="browser"} 1.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/ui/export/release_bundle/{release_bundle_name}/{release_bundle_version}/status",http_method="get",status_code="404",user_agent="browser"} 3.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/security/tokenrevoke",http_method="post",status_code="200",user_agent="rest_client"} 2.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/events/callback",http_method="post",status_code="200",user_agent="rest_client"} 16.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/distribution/{release_bundle_name}/{release_bundle_version}",http_method="post",status_code="202",user_agent="rest_client"} 47.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/keys/{protocol: pgp|gpg}/{alias}",http_method="delete",status_code="400",user_agent="rest_client"} 1.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/keys/{protocol: pgp|gpg}",http_method="post",status_code="400",user_agent="rest_client"} 1.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/security/permissions",http_method="get",status_code="403",user_agent="rest_client"} 1.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/ui/release_bundle/fetch",http_method="get",status_code="200",user_agent="rest_client"} 1.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/release_bundle/{release_bundle_name}/{release_bundle_version}",http_method="delete",status_code="204",user_agent="rest_client"} 28.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/system/info",http_method="get",status_code="200",user_agent="rest_client"} 70.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/security/permissions/{permission_name}",http_method="put",status_code="200",user_agent="rest_client"} 1.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/security/permissions/{permission_name}",http_method="get",status_code="200",user_agent="rest_client"} 1.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/ui/distribution/{release_bundle_name}/{release_bundle_version}/{distribution_tracker_friendly_id}/trackers",http_method="get",status_code="200",user_agent="rest_client"} 12.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/release_bundle/{release_bundle_name}/{release_bundle_version}",http_method="put",status_code="400",user_agent="rest_client"} 1.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/ui/release_bundle/{release_bundle_name}",http_method="post",status_code="200",user_agent="browser"} 7.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/keys/{protocol: pgp|gpg}",http_method="post",status_code="200",user_agent="browser"} 4.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/keys/{protocol: pgp|gpg}/{alias}",http_method="put",status_code="200",user_agent="rest_client"} 1.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/release_bundle/{release_bundle_name}/{release_bundle_version}/trigger_xray_scan",http_method="post",status_code="200",user_agent="rest_client"} 1.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/dynamic/distribute",http_method="post",status_code="400",user_agent="rest_client"} 2.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/release_bundle/{release_bundle_name}/{release_bundle_version}/distribution",http_method="get",status_code="200",user_agent="rest_client"} 98.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/base:v2/ui_v2/distribution/export/status/{release_bundle_name}/{release_bundle_version}",http_method="get",status_code="200",user_agent="rest_client"} 24.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/ui/release_bundle/spec_preview",http_method="post",status_code="200",user_agent="browser"} 2.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/distribution/edge_nodes",http_method="get",status_code="200",user_agent="browser"} 1.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/security/token",http_method="get",status_code="200",user_agent="rest_client"} 2.0 1723100546945
```

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jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/release_bundle/{release_bundle_name}/{release_bundle_version}/sign",http_method="post",status_code="200",user_agent="rest_client"}  
2.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/ui/release_bundle/{release_bundle_name}",http_method="get",status_code="200",user_agent="browser"} 3.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/distribution/{release_bundle_name}/{release_bundle_version}/abort",http_method="put",status_code="202",user_agent="rest_client"} 1.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/distribution/edge_nodes",http_method="get",status_code="200",user_agent="rest_client"} 63.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/distribution/{release_bundle_name}/{release_bundle_version}/delete",http_method="post",status_code="403",user_agent="rest_client"}  
1.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/distribution/{release_bundle_name}/{release_bundle_version}",http_method="post",status_code="200",user_agent="rest_client"} 1.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/release_bundle/{release_bundle_name}/{release_bundle_version}/distribution/{distribution_tracker}",http_method="get",status_code="200",user_agent="rest_client"} 1.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/keys/{proto: pgp|gpg}",http_method="post",status_code="200",user_agent="rest_client"} 17.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/release_bundle",http_method="post",status_code="201",user_agent="browser"} 7.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/security/permissions/{permission_name}",http_method="get",status_code="404",user_agent="rest_client"} 1.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/{base:v2|ui_v2}/distribution/edge_nodes/{release_bundle_name}/{release_bundle_version}",http_method="get",status_code="200",user_agent="rest_client"} 1.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/release_bundle/{release_bundle_name}/{release_bundle_version}",http_method="delete",status_code="404",user_agent="rest_client"} 8.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/ui_v2/dashboard/distributions/{release_bundle_name}",http_method="get",status_code="200",user_agent="rest_client"} 9.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/{base:v2|ui_v2}/distribution/distribute/{release_bundle_name}/{release_bundle_version}",http_method="post",status_code="409",user_agent="rest_client"} 1.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/ui/release_bundle/fetch",http_method="get",status_code="200",user_agent="browser"} 20.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/ui/trackers/historical",http_method="post",status_code="200",user_agent="rest_client"} 6.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/{base:v2|ui_v2}/distribution/export/{release_bundle_name}/{release_bundle_version}",http_method="post",status_code="202",user_agent="rest_client"} 8.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/export/release_bundle/{release_bundle_name}/{release_bundle_version}/status",http_method="get",status_code="200",user_agent="rest_client"} 9.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/distribution/{release_bundle_name}/{release_bundle_version}/delete",http_method="post",status_code="202",user_agent="rest_client"}  
8.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/export/release_bundle/{release_bundle_name}/{release_bundle_version}",http_method="post",status_code="400",user_agent="rest_client"}  
5.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/distribution/{release_bundle_name}/{release_bundle_version}",http_method="post",status_code="403",user_agent="rest_client"} 1.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/ui/distribution/edge_nodes",http_method="get",status_code="200",user_agent="browser"} 3.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/ui/release_bundle/repositories",http_method="get",status_code="200",user_agent="browser"} 2.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/ui/release_bundle/search",http_method="get",status_code="200",user_agent="rest_client"} 1.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/security/token",http_method="post",status_code="400",user_agent="rest_client"} 1.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/keys/{proto: pgp|gpg}/propagate",http_method="post",status_code="200",user_agent="rest_client"} 1.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/ui/export/release_bundle/{release_bundle_name}/{release_bundle_version}/status",http_method="get",status_code="200",user_agent="browser"} 6.0 1723100546945  
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/release_bundle/{release_bundle_name}/{release_bundle_version}",http_method="get",status_code="200",user_agent="browser"} 7.0
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1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/ui/pgp/aliases",http\_method="get",status\_code="200",user\_agent="browser"} 2.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/security/token",http\_method="get",status\_code="403",user\_agent="rest\_client"} 1.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/export/release\_bundle/{release\_bundle\_name}/{release\_bundle\_version}",http\_method="delete",status\_code="200",user\_agent="rest\_client"} 2.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/release\_bundle/{release\_bundle\_name}/{release\_bundle\_version}/sign",http\_method="post",status\_code="400",user\_agent="rest\_client"} 1.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/system/service",http\_method="get",status\_code="200",user\_agent="rest\_client"} 1.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/release\_bundle",http\_method="post",status\_code="200",user\_agent="rest\_client"} 1.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/{base:v2|ui\_v2}/distribution/abort/{release\_bundle\_name}/{release\_bundle\_version}",http\_method="put",status\_code="202",user\_agent="rest\_client"} 3.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/callhome",http\_method="get",status\_code="200",user\_agent="rest\_client"} 14.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/distribution/{release\_bundle\_name}/{release\_bundle\_version}/abort",http\_method="put",status\_code="204",user\_agent="rest\_client"} 1.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/ui/trackers/active",http\_method="post",status\_code="200",user\_agent="rest\_client"} 6.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/ui/release\_bundle/{release\_bundle\_name}/{release\_bundle\_version}",http\_method="get",status\_code="200",user\_agent="browser"} 10.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/ui/release\_bundle",http\_method="get",status\_code="200",user\_agent="rest\_client"} 1.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/distribution/{release\_bundle\_name}/{release\_bundle\_version}",http\_method="post",status\_code="400",user\_agent="rest\_client"} 2.0 1723100546945  
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jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/security/token",http\_method="post",status\_code="201",user\_agent="rest\_client"} 12.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/ui/release\_bundle",http\_method="post",status\_code="201",user\_agent="browser"} 2.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/security/token",http\_method="post",status\_code="403",user\_agent="rest\_client"} 1.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/release\_bundle",http\_method="post",status\_code="403",user\_agent="rest\_client"} 11.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/release\_bundle/{release\_bundle\_name}/{release\_bundle\_version}",http\_method="get",status\_code="404",user\_agent="rest\_client"} 10.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/release\_bundle",http\_method="post",status\_code="201",user\_agent="rest\_client"} 110.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/release\_bundle/{release\_bundle\_name}/{release\_bundle\_version}",http\_method="delete",status\_code="404",user\_agent="browser"} 1.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/security/permissions/{permission\_name}",http\_method="delete",status\_code="204",user\_agent="rest\_client"} 1.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/{base:v2|ui\_v2}/distribution/distribute/{release\_bundle\_name}/{release\_bundle\_version}",http\_method="post",status\_code="200",user\_agent="rest\_client"} 60.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/ui/release\_bundle/{release\_bundle\_name}/{release\_bundle\_version}",http\_method="delete",status\_code="200",user\_agent="browser"} 1.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/security/token",http\_method="post",status\_code="200",user\_agent="rest\_client"} 3.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/dynamic/distribute",http\_method="post",status\_code="202",user\_agent="rest\_client"} 1.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/ui/release\_bundle/{release\_bundle\_name}/{release\_bundle\_version}/distribution\_tracking",http\_method="get",status\_code="200",user\_agent="browser"} 1.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/system/cluster/configuration",http\_method="put",status\_code="200",user\_agent="rest\_client"} 56.0 1723100546945  
jfds\_number\_of\_api\_requests\_per\_endpoint\_total{application="Distribution",category="api\_requests",endpoint\_path="/v1/release\_

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bundle/{release_bundle_name}/{release_bundle_version}",http_method="delete",status_code="403",user_agent="rest_client"} 3.0
1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/release_
bundle/distribution",http_method="get",status_code="200",user_agent="rest_client"} 1.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/ui/export/r
elease_bundle/{release_bundle_name}/{release_bundle_version}",http_method="post",status_code="202",user_agent="browser"} 1.0
1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/keys/{pr
otocol: pgp|gpg}/{alias}",http_method="get",status_code="200",user_agent="rest_client"} 3.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/system/i
nfo",http_method="get",status_code="200",user_agent="browser"} 3.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/release_
bundle",http_method="post",status_code="400",user_agent="rest_client"} 14.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/keys/{pr
otocol: pgp|gpg}/{alias}",http_method="delete",status_code="200",user_agent="rest_client"} 16.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/{base:v2|ui
_v2}/distribution/export/{release_bundle_name}/{release_bundle_version}",http_method="post",status_code="400",user_agent="res
t_client"} 2.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/release_
bundle",http_method="post",status_code="409",user_agent="rest_client"} 3.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/release_
bundle/{release_bundle_name}/{release_bundle_version}",http_method="put",status_code="200",user_agent="rest_client"} 1.0
1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/system/c
onfignotify/{config_update_notification_type}",http_method="post",status_code="204",user_agent="rest_client"} 9.0
1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/export/r
elease_bundle/{release_bundle_name}/{release_bundle_version}",http_method="post",status_code="202",user_agent="rest_client"} 
11.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/release_
bundle/{release_bundle_name}/{release_bundle_version}",http_method="delete",status_code="204",user_agent="browser"} 5.0
1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/release_
bundle/{release_bundle_name}/{release_bundle_version}",http_method="get",status_code="200",user_agent="rest_client"} 135.0
1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/{base:v2|ui
_v2}/distribution/trackers/{release_bundle_name}/{release_bundle_version}",http_method="get",status_code="200",user_agent="re
st_client"} 372.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/{base:v2|ui
_v2}/distribution/export/delete/{release_bundle_name}/{release_bundle_version}",http_method="delete",status_code="200",user_a
gent="rest_client"} 3.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/keys/{pr
otocol: pgp|gpg}",http_method="put",status_code="200",user_agent="rest_client"} 1.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/release_
bundle/{release_bundle_name}/distribution",http_method="get",status_code="200",user_agent="rest_client"} 62.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/keys/{pr
otocol: pgp|gpg}/{alias}",http_method="get",status_code="404",user_agent="rest_client"} 1.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/keys/{pr
otocol: pgp|gpg}",http_method="get",status_code="200",user_agent="rest_client"} 3.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/keys/{pr
otocol: pgp|gpg}/aliases",http_method="get",status_code="200",user_agent="rest_client"} 9.0 1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/v1/distribu
tion/{release_bundle_name}/{release_bundle_version}",http_method="post",status_code="202",user_agent="browser"} 1.0
1723100546945
jfds_number_of_api_requests_per_endpoint_total{application="Distribution",category="api_requests",endpoint_path="/{base:v2|ui
_v2}/distribution/distribute/{release_bundle_name}/{release_bundle_version}",http_method="post",status_code="404",user_agent=
"rest_client"} 1.0 1723100546945
# TYPE jfds_number_of_approved_distributions_v2 counter
# HELP jfds_number_of_approved_distributions_v2 number of approved V2 release bundle distributions/exports
jfds_number_of_approved_distributions_v2_total{application="Distribution",category="xray_scans"} 64.0 1723100546945
# TYPE jfds_total_number_of_export_requests_v2 counter
# HELP jfds_total_number_of_export_requests_v2 number of v2 export start actions
jfds_total_number_of_export_requests_v2_total{application="Distribution",category="export"} 10.0 1723100546945
# TYPE jfds_number_of_queries_with_additional_properties counter
# HELP jfds_number_of_queries_with_additional_properties number of queries with additional properties
jfds_number_of_queries_with_additional_properties_total{application="Distribution",category="release_bundle_version"} 6.0
1723100546945
# TYPE jfds_number_of_artifactory_queries counter
# HELP jfds_number_of_artifactory_queries number of queries that the release bundle was constructed from
jfds_number_of_artifactory_queries_total{application="Distribution",artifactory_query="aql",category="release_bundle_version"}
```

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```
} 167.0 1723100546945
jfds_number_of_artifactory_queries_total{application="Distribution",artifactory_query="simple",category="release_bundle_version"} 9.0 1723100546945
# TYPE jfds_number_of_open_tx_forbidden_error counter
# HELP jfds_number_of_open_tx_forbidden_error number of distribution failures due to forbidden error from Artifactory in open tx
jfds_number_of_open_tx_forbidden_error_total{application="Distribution",category="distribution_user_failures",issue_type="open_tx"} 3.0 1723100546945
# TYPE jfds_number_of_path_mapping_based_on_last_promotion counter
# HELP jfds_number_of_path_mapping_based_on_last_promotion number of path mapping based on successful last promotion
jfds_number_of_path_mapping_based_on_last_promotion_total{application="Distribution",category="release_bundle_version"} 2.0 1723100546945
# TYPE jfds_number_of_open_tx_non_local_repository counter
# HELP jfds_number_of_open_tx_non_local_repository number of distribution failures due to non local repository on source Artifactory in open tx
jfds_number_of_open_tx_non_local_repository_total{application="Distribution",category="distribution_user_failures",issue_type="open_tx"} 1.0 1723100546945
# TYPE jfds_number_of_remote_deletion_requests_per_trigger_type counter
# HELP jfds_number_of_remote_deletion_requests_per_trigger_type number of distribute delete actions per type
jfds_number_of_remote_deletion_requests_per_trigger_type_total{application="Distribution",category="distribution",request_type="api_v1"} 8.0 1723100546945
# TYPE jfds_number_of_artifacts_in_release_bundle_version_per_package_type counter
# HELP jfds_number_of_artifacts_in_release_bundle_version_per_package_type number of artifacts in a release bundle per artifact package type
jfds_number_of_artifacts_in_release_bundle_version_per_package_type_total{application="Distribution",artifact_package_type="maven",category="release_bundle_version"} 332.0 1723100546945
jfds_number_of_artifacts_in_release_bundle_version_per_package_type_total{application="Distribution",artifact_package_type="nugget",category="release_bundle_version"} 34.0 1723100546945
jfds_number_of_artifacts_in_release_bundle_version_per_package_type_total{application="Distribution",artifact_package_type="generic",category="release_bundle_version"} 9.0 1723100546945
jfds_number_of_artifacts_in_release_bundle_version_per_package_type_total{application="Distribution",artifact_package_type="npm",category="release_bundle_version"} 27.0 1723100546945
jfds_number_of_artifacts_in_release_bundle_version_per_package_type_total{application="Distribution",artifact_package_type="docker",category="release_bundle_version"} 1303.0 1723100546945
# TYPE jfds_number_of_remote_deletion_requests_per_trigger_type_v2 counter
# HELP jfds_number_of_remote_deletion_requests_per_trigger_type_v2 number of v2 distribute delete actions per type
jfds_number_of_remote_deletion_requests_per_trigger_type_v2_total{application="Distribution",category="distribution",request_type="api_v1"} 13.0 1723100546945
# TYPE jfds_number_of_delete_forbidden counter
# HELP jfds_number_of_delete_forbidden number of distribution failures due to SC_FORBIDDEN from Artifactory while deleting an RBV
jfds_number_of_delete_forbidden_total{application="Distribution",category="distribution_applicative_failures",issue_type="delete_rbv"} 1.0 1723100546945
# TYPE jfds_tracking_view_page_access counter
# HELP jfds_tracking_view_page_access number of page views of tracking view page per tab (active/historical)
jfds_tracking_view_page_access_total{application="Distribution",category="monitoring",tab="active"} 6.0 1723100546945
jfds_tracking_view_page_access_total{application="Distribution",category="monitoring",tab="historical"} 6.0 1723100546945
# TYPE jfds_distribution_build_info gauge
# HELP jfds_distribution_build_info
jfds_distribution_build_info{application="Distribution",revision="22601900",version="2.26.1"} 1.0 1723100546945
# TYPE jfds_number_of_created_release_bundle_versions counter
# HELP jfds_number_of_created_release_bundle_versions number of created release bundle versions per type
jfds_number_of_created_release_bundle_versions_total{application="Distribution",category="release_bundle_version",request_type="api_v1"} 119.0 1723100546945
jfds_number_of_created_release_bundle_versions_total{application="Distribution",category="release_bundle_version",request_type="ui"} 2.0 1723100546945
# TYPE jfds_number_of_modifications_of_path counter
# HELP jfds_number_of_modifications_of_path number of modifications of original path
jfds_number_of_modifications_of_path_total{application="Distribution",category="release_bundle_version"} 9.0 1723100546945
# TYPE jfds_number_of_xray_scan_result_not_allowed counter
# HELP jfds_number_of_xray_scan_result_not_allowed number of distribution failures due to xray scan result was NOT ALLOWED
jfds_number_of_xray_scan_result_not_allowed_total{application="Distribution",category="distribution_applicative_failures",issue_type="xray"} 6.0 1723100546945
# TYPE jfds_number_of_deleted_release_bundle_versions counter
# HELP jfds_number_of_deleted_release_bundle_versions number of deleted release bundle versions
jfds_number_of_deleted_release_bundle_versions_total{application="Distribution",category="release_bundle_version"} 55.0 1723100546945
# TYPE jfds_number_of_distribution_requests_per_trigger_type counter
# HELP jfds_number_of_distribution_requests_per_trigger_type number of distribute start actions per type
jfds_number_of_distribution_requests_per_trigger_type_total{application="Distribution",category="distribution",request_type="
```

# JFrog REST APIs Displayed in the header

```
api_v1"} 109.0 1723100546945
# TYPE jfds_number_of_distributions_per_status_v2 counter
# HELP jfds_number_of_distributions_per_status_v2 number of v2 distributions per state
jfds_number_of_distributions_per_status_v2_total{application="Distribution",category="distribution",status="completed"} 103.0
1723100546945
jfds_number_of_distributions_per_status_v2_total{application="Distribution",category="distribution",status="failed"} 6.0
1723100546945
jfds_number_of_distributions_per_status_v2_total{application="Distribution",category="distribution",status="completed_no_acti
on"} 3.0 1723100546945
# TYPE jfds_number_of_rejected_distributions_v2 counter
# HELP jfds_number_of_rejected_distributions_v2 number of rejected V2 release bundle distributions/exports
jfds_number_of_rejected_distributions_v2_total{application="Distribution",category="xray_scans"} 3.0 1723100546945
# TYPE jfds_size_of_release_bundle_versions_in_bytes counter
# HELP jfds_size_of_release_bundle_versions_in_bytes size in bytes of all artifacts in all release bundles that were signed
jfds_size_of_release_bundle_versions_in_bytes_total{application="Distribution",category="release_bundle_version"} 1.7432894E7
1723100546945
# TYPE jfds_number_of_signed_release_bundle_versions counter
# HELP jfds_number_of_signed_release_bundle_versions number of signed release bundle versions
jfds_number_of_signed_release_bundle_versions_total{application="Distribution",category="release_bundle_version"} 176.0
1723100546945
# EOF
```

## 5.6.9 | Distribution Open Metrics Support

The Get the Open Metrics for Distribution REST API returns the following metrics in Open Metrics format.

Metric	Description	Prometheus Metric Type
jfds_total_number_of_release_bundles	The total number of Release Bundles created.	COUNTER
jfds_number_of_created_release_bundle_versions	The number of Release Bundle versions created per request type (API, UI).	COUNTER
jfds_number_of_signed_release_bundle_versions	The total number of signed Release Bundle versions.	COUNTER
jfds_number_of_deleted_release_bundle_versions	The total number of deleted Release Bundle versions.	COUNTER
jfds_size_of_release_bundle_versions	The sizes (in bytes) of all artifacts in all signed Release Bundle versions.	COUNTER
jfds_number_of_artifacts_in_release_bundle	The maximum number of artifacts in a Release Bundle version.	GAUGE
jfds_number_of_artifacts_in_release_bundle	The number of artifacts in a Release Bundle version (rounded off into units of 10, 50, 100, 500, 1000, 5000, 10000, 50000, and infinite).	HISTOGRAM

# JFrog REST APIs

## Displayed in the header

Metric	Description	Prometheus Metric Type
jfds_number_of_artifacts_in_release_bundle_type_total	The number of artifacts in a Release Bundle per package type.	COUNTER
jfds_number_of_artifactory_queries_total	The number of queries used to construct the Release Bundle.	COUNTER
jfds_number_of_queries_with_additional_properties	The number of queries containing additional properties.	COUNTER
jfds_number_of_queries_with_path_mapping	The total number of queries that include path mapping (path and repo modifications).	COUNTER
jfds_number_of_path_mapping_based_on_v2_promotion	The total number of path mappings based on the last successful Release Bundle v2 promotion.	COUNTER
jfds_number_of_modifications_of_path	The total number of modifications made to the original path during distribution operations.	COUNTER
jfds_number_of_modifications_of_repo	The total number of modifications that have been made to the original repository.	COUNTER
jfds_distribution_build_info	The Distribution service version and revision.	GAUGE
jfds_redis_tasks	The current status of the Distribution queues (staging, pending, working).	GAUGE
jfds_total_number_of_distribution_requests_v1	The total number of Release Bundle v1 distribution start actions.	COUNTER
jfds_total_number_of_distribution_requests_v2	The total number of Release Bundle v2 distribution start actions.	COUNTER
jfds_total_number_of_distribution_requests_v2_per_project	The total number of Release Bundle v2 distribution start actions performed in the context of a project.	COUNTER

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Metric	Description	Prometheus Metric Type
jfds_number_of_distribution_requests	The total number of Release Bundle (v1 & v2) distribution start actions per request type (API, UI).	COUNTER
jfds_total_number_of_exports_requests	The total number of export operations for Release Bundle v2 versions.	COUNTER
jfds_number_of_distributions_per_status	The total number of Release Bundle v1 distributions per status (completed, failed).	COUNTER
jfds_number_of_distributions_per_status_v2	The total number of Release Bundle v2 distributions per status (completed, failed).	COUNTER
jfds_number_of_exports_per_status_v2	The total number of export operations per status (completed, failed).	COUNTER
jfds_stuck_distributions_by_status	The number of stuck distribution operations per status (in progress, not started, abort in progress, close tx).	GAUGE
jfds_number_of_open_tx_non_local_repo	The total number of distribution failures due to a non-local repository on the source Artifactory during open Tx.	COUNTER
jfds_number_of_open_tx_missing_repository	The total number of distribution failures due to missing repositories on the Artifactory Edge node during open Tx.	COUNTER
jfds_number_of_open_tx_forbidden_error	The total number of distribution failures due to a Forbidden error from Artifactory during open Tx.	COUNTER
jfds_number_of_close_tx_bad_request	The total number of distribution failures due to SC_BAD_REQUEST errors from Artifactory during close Tx.	COUNTER
jfds_number_of_delete_forbidden_total	The total number of distribution failures due to SC_FORBIDDEN errors from Artifactory when deleting a Release Bundle version.	COUNTER
jfds_number_of_remote_deletion_requests	The total number of Release Bundle v1 remote delete actions per request type	COUNTER

# JFrog REST APIs Displayed in the header

Metric	Description	Prometheus Metric Type
jfds_number_of_remote_deletion_requests_total	The total number of Release Bundle v2 remote delete actions per request type (API, UI).	COUNTER
jfds_number_of_approved_distributions_total	The total number of Release Bundle v1 distribution(exports) approved by Xray.	COUNTER
jfds_number_of_approved_distributions_v2_total	The total number of Release Bundle v2 distributions(exports) approved by Xray.	COUNTER
jfds_number_of_xray_scan_result_not_allowed_total	The total number of distribution failures due to Xray scan results of NOT ALLOWED. There are 3 possible reasons for this failure: <b>blocked</b> , <b>not_indexed</b> , and <b>not_found_in_artifactory</b> .	COUNTER
<b>Note</b>		
	The <b>not_indexed</b> and <b>not_found_in_artifactory</b> errors are relevant for Release Bundles v2 only.	
jfds_number_of_rejected_distributions_total	The total number of Release Bundle v1 distribution(exports) blocked by Xray.	COUNTER
jfds_number_of_rejected_distributions_v2_total	The total number of Release Bundle v2 distribution(exports) blocked by Xray.	COUNTER
jfds_number_of_api_requests_per_endpoint_total	The total number of API requests that were processed per endpoint.	COUNTER
jfds_tracking_view_page_access_total	The total number of page views for each tab of the Distribution Service Monitoring page.	COUNTER

## 5.7 | AIR GAP ENVIRONMENT

This section includes the APIs for distributing Release Bundles v1 in an Air Gap environment.

### Note

For information about distributing Release Bundles **v2** in an Air Gap environment, see [Release Bundle V2 Distribution APIs](#).

#### 5.7.1 | Export Release Bundle v1 Version Archived File

## JFrog REST APIs Displayed in the header

**Description:** Triggers the Release Bundle v1 export process from JFrog Distribution. For more information, see Distribute Release Bundles (v1) in an Air Gap Environment.

**Note:** The Import process is performed on the Distribution Edge. For more information, see Import Release Bundle Version.

**Since:** 2.5

**Security:** Authenticated users only. Users must have matching Release Bundle distribute permissions.

**Usage:** POST api/v1/export/release\_bundle/{name}/{version}

### cURL Example

```
curl -XPOST 'http://localhost:8082/distribution/api/v1/export/release_bundle/{name}/{version}' -uadmin:password
```

Field	Type	Required	Default Value	Since	Description
name	String	yes	N/A	2.5	Release bundle name
version	String	yes	N/A	2.5	Release bundle version

### Response status codes:

202 - Successfully triggered the process of generating an archived Export version

400 - Failed to generate an export version archive file

## 5.7.2 | Get Exported Release Bundle v1 Version Status

**Description:** Gets the status of an exported Release Bundle v1 process. For more information, see Distribute Release Bundles (v1) in an Air Gap Environment.

### Important

For information about getting the status of an exported Release Bundle v2 version, see [Get Exported Release Bundle Version v2 Status](#).

**Since:** 2.5

**Security:** Authenticated users only. Users must have matching Release Bundle distribute permissions.

**Usage:** GET api/v1/export/release\_bundle/{name}/{version}/status

**Consumes:** application/json

### cURL Example

```
curl -XGET 'http://localhost:8082/distribution/api/v1/export/release_bundle/{name}/{version}/status' -uadmin:password
```

### Response status codes:

202 - Successful request

400 - Failed to return the status

### format=json

```
{
    "status": "IN_PROGRESS|FAILED|NOT_TRIGGERED|COMPLETED",
    "message": "optional message in case failed and we have some info to pass",
    "download_url": "http://artifactory_url/path_if_status_completed"
}
```

### 5.7.3 | Delete Exported Release Bundle v1 Archive File

#### Note

This API is intended only for users working in a Self-Hosted environment.

**Description:** Deletes the exported Release Bundle v1 archive from Distribution. For more information, see Distribute Release Bundles (v1) in an Air Gap Environment.

**Since:** 2.5

**Security:** Authenticated users only. Users must have delete permissions for the Release Bundle.

**Usage:** `DELETE api/v1/export/release_bundle/{name}/{version}`

**Consumes:** N/A

#### cURL Example

```
curl -X DELETE 'http://localhost:8082/distribution/api/v1/export/release_bundle/{name}/{version}'
```

### 5.7.4 | Import Release Bundle Version

**Description:** Import the Release Bundle version from the exported zip file. For more information, see Distribute Release Bundles (v1) in an Air Gap Environment.

#### Important

This API is relevant for both Release Bundles v1 and Release Bundles v2.

**Note:** The Import process is performed on the Artifactory node.

You can set `dryRun=true` to validate that the conditions for performing the import process are met:

- All the target repositories exist in Artifactory
- No Release Bundle of this name already exists in Artifactory

From Artifactory 7.10.2, the import feature has been extended to support importing a file from a user-defined `ARTIFACTORY_HOME/var/data/artifactory/import/` path. Note that the file will be deleted from the path after the file is imported.

**Since:** 7.9

**Security:** Admin only

**Usage:** `POST api/release/import?file_name=<fileName>&dry_run=<true|false>`

**Consumes:** application/json

**Sample metadata.json file:**

```
{"name": "test-100-1", "version": "1.0.0", "signature": "eyJraWQiOiIzYTI4NzEiLCJhbGciOiJFUzI1NiJ9...}
```

**Import from Local File Example:**

```
curl -X POST 'http://localhost:8082/artifactory/api/release/import' -H 'Content-Type: application/octet-stream' -uadmin:password
```

```
curl -X POST "http://localhost:8082/artifactory/api/release/import" -H "Content-Type: application/octet-stream" --data-binary @release_bundle-1.0.0.zip -uadmin:password
```

**Import from Path Example:**

```
curl -X POST "http://localhost:8082/artifactory/api/release/import?file_name=release_bundle-1.0.0.zip" -H "Content-Type: application/json" -uadmin:password
```

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## Response status codes:

202 - Successfully triggered to import version

400 - Failed to import version

## 5.8 | TOKEN MANAGEMENT

### 5.8.1 | Create a Token

**Description:** Creates an authentication token for an existing (non-transient) user.

**Since:** 1.2

**Security:** Admin user required to create tokens for themselves and others (including tokens with an admin scope); other users can create tokens for themselves only

**Usage:** POST /api/v1/security/token

**Request Headers:** N/A

**Consumes:** application/x-www-form-urlencoded

**cURL Example**

```
$ curl -X POST -u user:password http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/security/token -d 'username=user' -d 'refreshable=true' -d 'scope=applied-permissions%2Fadmin' -d "expires_in=123"
```

## Response status codes:

201 - Successfully created token

**Response headers:** N/A

**Produces:** application/json

**Response**

```
{
  "access_token": "eyJ2ZXIiOiIyIiwidHlwIjoiSldUIwiYWxnIjoiUlMyNTYiLCJraWQiOj6WWFWQjVFRlpkOX1pbWtCNkZTbDAtSWFhMHRPwldLX293c1BTVNTZmdNIIn0.eyJzdWIoIjsZW5vbiIsInNjcCI6ImFwcGxpZWtcGVybWzc2lrbnNcL2FkbWluIiwiYXVkJoiamZkc0AwMwNoMDV0ajRuM3Nz0DBzNm4zdjIzMddiosIsImlzcyI6ImpmZHNMADFjaDA1dGo0bjNzczgwczUz3YyMzA3YjkilCJleHAi0jE1MzAwOTk2MTgsImlhdcI6MTUzMDA50TQ5NSwianRpIjoiYTQzM2YwZDAtNTQ50C00YjI5LWE50DctZjI3MTNkYmMyOTdmIn0.E7csEhcHqsOjxz1jmhDVu_Ij51yQyxYifMXusexqZk78pi_7YH1jCjY1iRg6VMthdv8_Db2CsaNzYdubCyTTt7700TSVfqJdZsm_0AEz-paIj71lvgyJBFLZ2bjE253tMGLgweypUqqEsEH3J3Fyfaaw4XXUR1KT5inbwKk1Mu-DvPG5772ZS1Y6YPU8o0Gc2dwg_BHUVjMTJ5vQAw0Ws5Ta2CJ0DF40JLQKcyN_JCgzQ2RCXr2C70JIF9Fa0OBaIKVT-DguSNGU83dnR-YF0XBsUcTDu5K-J15H3FMdb129awXe4_fLLdlMK8iAaRujsIDLvxedlezVal4nLRZcxA",
  "refresh_token": "f96bda0c-ab50-4b7e-96f1-be8bd20605a3",
  "expires_in": 123,
  "scope": "applied-permissions/admin",
  "token_type": "Bearer"
}
```

Field	Type	Required	Default Value	Description
grant_type	String	no	client_credentials	The grant type used to authenticate the request. In this case, the only value supported is "client_credentials" which is also the default value if this parameter is not specified.
username	String	yes		The user name for which this token is created. Non-admin users can only create tokens for themselves so they must specify their own username.

Field	Type	Required	Default Value	Description
scope	String	no		The scope to assign to the token provided as a space-separated list of scope tokens. Currently there are only one possible scope option:  applied-permissions/admin
expires_in	Long	no	0	The time in seconds for which the token will be valid. To specify a token that never expires, set to zero.
refreshable	Boolean	no	false	If true, this token is refreshable and the refresh token can be used to replace it with a new token once it expires.

### 5.8.2 | Refresh a Token

**Description:** Refreshes the authentication token for an existing (non-transient) user.

**Since:** 1.2

**Security:** admin for itself and others (or with admin scope), user for itself only

**Usage:** POST /api/v1/security/token

**Request Headers:** N/A

**Consumes:** application/x-www-form-urlencoded

Field	Type	Required	Default Value	Description
grant_type	String	yes		The grant type used to authenticate the request. In this case, the only value supported is "refresh_token".
access_token	String	yes		The access token to refresh.
refresh_token	String	yes		The refresh token of the access token that needs to be refreshed.
expires_in	Long	no	0	The time in seconds for which the token will be valid. To specify a token that never expires, set to zero.
refreshable	Boolean	no	true	If true, this token is refreshable and the refresh token can be used to replace it with a new token once it expires.

#### cURL Example

```
$ curl -X POST -u user:password http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/security/token -d "grant_type=refresh_token" -d "refresh_token=fsgsg53t3g..." -d "access_token=gsfdgw35gt..."
```

**Response status codes:**

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200 - Successfully refreshed token

**Response headers:** N/A

**Produces:** application/json

### Response

```
{  
    "access_token":  
        "eyJ2ZXIiOiIyIiwidHlwIjoiSldUiwiYWxnIjoiUlMyNTYiLCJraWQiOiJ6WFQjVFRlpkOXlpbWtCNkZTbDATSWFhMHRPwldLX293c1BTVNTZmdNIn0.eyJz  
        dWIIoIjsZW5vbiIsInNjcCI6ImFwcGxpZWQtcGVybWlzc2lrbnNcl2FkbWluIiwiYXVkJoiamZkc0AwMWN0MDV0ajRuM3Nz0DBzNm4zdjIzMDDiOSiSiMlzcyI6I  
        mpmZHNAMDFjaDA1dGo0bjNzczgwczU3YyMzA3Yjk1LCJleHAiOjE1MzAwOTk2MTgsImlhdCI6MTUzMDA5QTQ5NSwanRpIjo1YTQ2M2YwZDAtNTQ50C00YjI5LW  
        E50DctZjI3MTNkYmMyOTdmIn0.E7csEhcHqsOJxz1jmhDVu_Ij51yQyxY1fMXusexqZk78pi_7YH1JcY1iRg6VMthdv8_Db2CsaNzYdubCyTTt7700TSVfqJdZsm_  
        0AEz-paIj71lvgyJBFLZ2bjE253tMGLgweypUqqEsEH3J3FyfAaw4XXUR1KT5inbwKklMu-  
        DvPG5772ZS1Y6YPU8o0Gc2dWg_BHUvjMTJ5vQAw0Ws5Ta2CJ0DF40JLQKcyN_JCgzQ2RCXr2C70JIF9Fa0OBaIKVT-DguSNGU83dnrr-YF0XBsUcTDu5K-  
        J15H3FMdb129awXe4_fLLdtMK8iAaRujsIDlvexdlezVal4nLRZcxA",  
    "refresh_token": "f96bda0c-ab50-4b7e-96f1-be8bd20605a3",  
    "expires_in": 123,  
    "scope": "applied-permissions/admin",  
    "token_type": "Bearer"  
}
```

### 5.8.3 | Revoke a Token

**Description:** Revokes an access token by specifying the token or the token\_id

**Since:** 1.2

**Security:** Admin

**Usage:** POST /api/v1/security/token/revoke

**Request Headers:** N/A

**Consumes:** application/x-www-form-urlencoded

#### cURL Example

```
$ curl -u user:password -X POST "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/security/token/revoke" -d  
"token=fasdt3..."
```

or

```
$ curl -u user:password -X POST "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/security/token/revoke" -d  
"token_id=7e0eec..."
```

Field	Type	Required	Description
token	String	yes (if token_id is empty)	The token to be revoked. Must not be specified if token_id specified.
token_id	String	yes (if token is empty)	The ID of the token to be revoked. Must not be specified if token specified.

#### Response status codes:

200 - Successfully revoked token 404 - Token not found

### 5.8.4 | Get Tokens Info

**Description:** Gets a list of access tokens for a specific user.

# JFrog REST APIs Displayed in the header

**Since:** 1.2

**Security:** Admin

**Usage:** GET /api/v1/security/token

## cURL Example

```
$ curl -u user:password -X GET "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/security/token"
```

## Response status codes:

200 - Successfully retrieves the list of tokens 404 - Tokens not found

**Response headers:** N/A

**Produces:** application/json

## Response

```
{
  "tokens": [
    {
      "token_id": "58ae2b6f-085d-493e-b7c3-670d7700c034",
      "issuer": "jfds@01ch05tj4n3ss80s6n3v2307b9",
      "subject": "admin",
      "issued_at": 1530088236,
      "expiry": 2476168236,
      "refreshable": false
    },
    {
      "token_id": "5c0399f9-de42-4cc8-bbd6-ba04a8b861a7",
      "issuer": "jfds@01ch05tj4n3ss80s6n3v2307b9",
      "subject": "lenon",
      "issued_at": 1530089226,
      "refreshable": true
    }
  ]
}
```

## 5.9 | PERMISSION MANAGEMENT

Permission action types:

Action	Description
d	delete
x	distribute

### 5.9.1 | Create/Update Destinations Permissions by Name

Permissions can be created and overridden by specifying the unique permission name.

Destination permission is used to define permissions for interactions with Distribution Edges, such as distributing and deleting release bundles.

Allowed actions for destination permission: x, d.

The permissions are applied to Distribution Edges which information is matched by the passed wildcard expressions.

# JFrog REST APIs Displayed in the header

**Description:** Create/Update permissions for users and groups, based on permission scope. The response body will contain the created/updated permission.

**Since:** 2.0

**Security:** Admin only.

**Usage:** PUT /api/v1/security/permissions/:name

**Request Headers:** N/A

**Consumes:** application/json

## cURL Example

```
$ curl -X PUT -u user:password -H "Content-Type: application/json"  
"http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/security/permissions/:name" -T permission.json
```

### permission.json

```
{  
  "distribution_destinations": [  
    {  
      "site_name": "*",  
      "city_name": "*",  
      "country_codes": [  
        "*"  
      ]  
    }  
  ],  
  "name": "permission-name",  
  "resource_type": "destination",  
  "principals": {  
    "users": {  
      "anonymous": [  
        "x"  
      ]  
    },  
    "groups": {  
      "readers": [  
        "x"  
      ]  
    }  
  }  
}
```

### Response status codes:

200 - Successfully set permission

**Response headers:** N/A **Produces:** application/json

## Response

```
{  
  "distribution_destinations": [  
    {  
      "site_name": "*",  
      "city_name": "*",  
      "country_codes": [  
        "*"  
      ]  
    }  
  ],  
  "name": "permission-name",  
  "resource_type": "destination",  
  "principals": {  
    "users": {  
      "user1": [  
        "x"  
      ]  
    },  
  },  
}
```

```
"groups": {  
    "group1": [  
        "x"  
    ]  
}  
}
```

### 5.9.2 | Get All Permissions

**Description:** Get all permissions.

**Since:** 2.0

**Security:** Admin only.

**Usage:** GET /api/v1/security/permissions

**Request Headers:** N/A

**Consumes:** application/json

#### cURL Example

```
$ curl -X GET -u user:password "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/security/permissions"
```

#### Response status codes:

200 - Success

**Response headers:** N/A

**Produces:** application/json

#### Response

```
[  
    {  
        "distribution_destinations": [  
            {  
                "site_name": "*",  
                "city_name": "*",  
                "country_codes": [  
                    "*"  
                ]  
            }  
        ],  
        "name": "permission-name",  
        "resource_type": "destination",  
        "principals": {  
            "users": {  
                "anonymous": [  
                    "x"  
                ]  
            },  
            "groups": {  
                "readers": [  
                    "x"  
                ]  
            }  
        }  
    }  
]
```

### 5.9.3 | Get Permission by name

**Description:** Get permission information by name.

# JFrog REST APIs Displayed in the header

**Since:** 2.0

**Security:** Admin only.

**Usage:** GET /api/v1/security/permissions/:name

**Request Headers:** N/A

**Consumes:** N/A

## cURL Example

```
$ curl -X GET -u user:password "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/security/permissions/:name"
```

## Response status codes:

200 - Success

404 - Permission not found

**Response headers:** N/A

**Produces:** application/json

## Response

```
{
  "distribution_destinations": [
    {
      "site_name": "*",
      "city_name": "*",
      "country_codes": [
        "*"
      ]
    }
  ],
  "name": "permission-name",
  "resource_type": "destination",
  "principals": {
    "users": {
      "anonymous": [
        "x"
      ]
    },
    "groups": {
      "readers": [
        "x"
      ]
    }
  }
}
```

## 5.9.4 | Delete Permission by name

**Description:** Delete permission by its id

**Since:** 1.0

**Security:** Admin only.

**Usage:** DELETE /api/v1/security/permissions/:name

**Request Headers:** N/A

**Consumes:** N/A

## cURL Example

```
$ curl -X DELETE -u user:password "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/security/permissions/:name"
```

# JFrog REST APIs Displayed in the header

## Response status codes:

204 - Successfully deleted permission

404 - Permission not found

## Response headers: N/A

## Produces: N/A

## 5.10 | SUPPORT

### 5.10.1 | Create Support Bundle

**Description:** Creates a support bundle.

**Since:** 1.6

**Security:** Admin only

**Usage:** POST /api/v1/system/support/bundle

**Request headers:** N/A

**Consumes:** application/json

**Produces:** application/json

#### cURL Example

```
$ curl -X POST -u user:password -H "Content-Type: application/json"  
"http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/system/support/bundle" -T create_support_bundle.json
```

#### create\_support\_bundle.json

```
{  
    "parameters": {  
        "configuration": true|false,  
        "logs": {  
            "include": true|false,  
            "start_date": ISO8601 based date in the pattern: YYYY-MM-DD,  
            "end_date": ISO8601 based date in the pattern: YYYY-MM-DD,  
            },  
        "system": true|false,  
        "thread_dump": {  
            "count": 1,  
            "interval" :0  
        }  
    },  
    "description": "",  
    "name": ""  
}
```

Field	Type	Required	Default Value	Since	Description
parameters	Object	no	N/A	1.6	Support bundle parameters
parameters.configuration	Boolean	no	true	1.6	Collect configuration files

# JFrog REST APIs Displayed in the header

Field	Type	Required	Default Value	Since	Description
parameters.logs	Object	no	N/A	1.6	Collect all system logs, if this field is not specified support bundle will collect logs from day before today until today.
parameters.logs.include	Boolean	no	true	1.6	Collect system logs.
parameters.logs.start_date	String	no	Day before end_date	1.6	Start date from which to fetch the logs
parameters.logs.end_date	String	no	Today	1.6	End date until which to fetch the logs
system	Boolean	no	true	1.6	Information about your system including storage, system properties, cpu, and JVM information
thread_dump	Object	no	N/A	1.6	Create a thread dump for all running threads
thread_dump.count	Integer	no	1	1.6	Number of thread dumps to collect
thread_dump.interval	Integer	no	0	1.6	Interval between times of collect thread dump in milliseconds
description	String	no	N/A	1.6	Support bundle description
name	String	no	N/A	1.6	Support bundle name

**Response status codes:**

200 - Successfully create support bundle

**Response headers:** N/A

**Produces:** application/json

**response.json**

```
{
  "id": 20181230145474-53666747,
  "artifactory": {
    "service_id": "jfds@...",
    "bundle_url":
      "http://<artifactory host>:<artifactory port>/artifactory/support-bundles/<bundle id>/jfds/<service id>"
  }
}
```

## JFrog REST APIs Displayed in the header

### 5.10.2 | Create Specific Support Bundle

**Description:** Creates a new support bundle and assigns it a specific ID

**Since:** 1.6

**Security:** Admin only

**Usage:** PUT /api/v1/system/support/bundle/bundle\_id

**Request headers:** N/A

**Consumes:** application/json

**Produces:** application/json

#### cURL Example

```
$ curl -X PUT -u user:password -H "Content-Type: application/json"  
"http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/system/support/bundle/bundle_id" -T create_support_bundle.json
```

#### create\_support\_bundle.json

```
{  
  "parameters": {  
    "configuration": true|false,  
    "logs": {  
      "include": true|false,  
      "start_date": ISO8601 based date in the pattern: YYYY-MM-DD,  
      "end_date": ISO8601 based date in the pattern: YYYY-MM-DD,  
    },  
    "system": true|false,  
    "thread_dump": {  
      "count": 1,  
      "interval" :0  
    }  
  },  
  "description": "",  
  "name": ""  
}
```

Field	Type	Required	Default Value	Since	Description
parameters	Object	no	N/A	1.6	Support bundle parameters
parameters.configuration	Boolean	no	true	1.6	Collect configuration files
parameters.logs	Object	no	N/A	1.6	Collect all system logs, if this field is not specified support bundle will collect logs from day before today until today.
parameters.logs.include	Boolean	no	true	1.6	Collect system logs.
parameters.logs.start_date	String	no	Day before end_date	1.6	Start date from which to fetch the logs
parameters.logs.end_date	String	no	Today	1.6	End date until which to fetch the logs

# JFrog REST APIs Displayed in the header

Field	Type	Required	Default Value	Since	Description
system	Boolean	no	true	1.6	Information about your system including storage, system properties, cpu, and JVM information
thread_dump	Object	no	N/A	1.6	Create a thread dump for all running threads
thread_dump.count	Integer	no	1	1.6	Number of thread dumps to collect
thread_dump.interval	Integer	no	0	1.6	Interval between times of collect thread dump in milliseconds
description	String	no	N/A	1.6	Support bundle description
name	String	no	N/A	1.6	Support bundle name

**Response status codes:**

200 - Successfully create support bundle

400 - Corresponding repository does not exist in Artifactory. Support bundle will be persisted to the file system in each Distribution Edge.

404 - Artifactory authentication provider could not be found

**Response headers:** N/A

**Produces:** application/json

**response.json**

```
{
  "id": 20181230145474-53666747,
  "artifactory": {
    "service_id": "jfds@...",
    "bundle_url":
      "http://<artifactory host>:<artifactory port>/artifactory/support-bundles/<bundle id>/jfds/<service id>"
  }
}
```

### 5.10.3 | Get Support Bundle Info

**Description:** Returns details about a support bundle.

**Since:** 1.6

**Security:** Admin only

**Usage:** GET /api/v1/system/support/bundle/bundle\_id

**Request headers:** N/A

**Consumes:** N/A

# JFrog REST APIs Displayed in the header

## cURL Example

```
$ curl -X GET -u user:password "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/system/support/bundle/bundle_id"
```

## Response status codes:

200 - Successfully get support bundle info

404 - Support bundle not found

## Response headers: N/A

Produces: application/json

## info\_support\_bundle.json

```
{
  "parameters": {
    "configuration": true,
    "logs": {
      "include": true,
      "start_date": 2019-01-20,
      "end_date": 2019-01-21
    },
    "system": true,
    "thread_dump": {
      "count": 2,
      "interval": 100
    }
  },
  "description": "",
  "name": ""
}
"artifactory": {
  "service_id": "",
  "bundle_url": "http://<artifactory host>:<artifactory port>/artifactory/support-bundles/<bundle id>/jfds/<service id>"
},
status: success,
created: 2019-02-02,
}
```

## 5.10.4 | Get Support Bundle

**Description:** Downloads a specified support bundle.

**Since:** 1.6

**Security:** Admin only

**Usage:** GET /api/v1/system/support/bundle/bundle\_id/archive

**Request headers:** N/A

**Consumes:** N/A

## cURL Example

```
$ curl -X GET -u user:password
"http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/system/support/bundle/bundle_id/archive" --output
support_bundle.zip
```

## Response status codes:

200 - Successfully download support bundle

404 - Support bundle not found

## Response headers: N/A

**response.json**

```
200 OK
Content-Type: application/zip
```

### 5.10.5 | Delete Support Bundle

**Description:** Deletes a support bundle.

**Since:** 1.6

**Security:** Admin only

**Usage:** DELETE /api/v1/system/support/bundle/bundle\_id

**Request headers:** N/A

**Consumes:** N/A

**cURL Example**

```
$ curl -X DELETE -u user:password
"http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/system/support/bundle/bundle_id"
```

**Response status codes:**

204 - Successfully delete support bundle

404 - Support bundle not found

**Response headers:** N/A

**response.json**

```
204 No Content
```

### 5.10.6 | List Support Bundles

**Description:**

get the list of all support bundles

**Since:** 1.6

**Security:** Admin only

**Usage:** GET /api/v1/system/support/bundles

**Request headers:** N/A

**Consumes:** N/A

**cURL Example**

```
$ curl -X GET -u user:password "http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/system/support/bundles"
```

**Response status codes:**

200 - Success

**Response headers:** N/A

**response.json**

```
{
  "count": 2,
  "bundles": [
    {
      id: 20181230145474-53666747,
```

```
description: "",  
name: "",  
created: 2018-12-30,  
,  
...  
]  
}
```

## 5.11 | MAINTENANCE

### 5.11.1 | Generate Stop All Tasks token

**Description:** Generates an execution token to stop all distribution tasks. This key is used with the Stop All Tasks REST API.

**Since:** 1.8.1

**Security:** Admin only

**Usage:** GET /api/v1/maintenance/generate\_token/stop\_all

**Request headers:** N/A

**Consumes:** application/json

**Produces:** application/json

#### Request Example

```
$ curl -XGET -u admin:password "http://localhost:8080/api/v1/maintenance/generate_token/stop_all"
```

#### response.json

```
{  
  "token": "JEv4CnrZNhmgtkRV9aKmGsrozGEoaoBs3okv9SFusdhR3hUKiWdKwAhoeP1SLEy8hFZqFhE"  
}
```

#### Response status codes:

200 - Success

### 5.11.2 | Stop All Tasks

**Description:** Stops all running distribution tasks. Requires an **execution token**.

**Since:** 1.8.1

**Security:** Admin only

**Usage:** POST /api/v1/maintenance/execute/stop\_all

**Request headers:** N/A

**Consumes:** Content-Type: text/plain

**Produces:** application/json

#### Request Example

```
$ curl -XPOST -H "Content-Type: text/plain" -u admin:password "http://localhost:8080/api/v1/maintenance/execute/stop_all?  
dryRun=false" --data-raw "token..."
```

## JFrog REST APIs Displayed in the header

Field	Type	Required	Default Value	Since	Description
dryRun	Query Param	yes	true	1.8.1	If set to true, parses, validates, and returns the list of tasks that would be stopped, but does not execute the operation.

### response.json

```
{  
  "trackers_db_info": {  
    "affected_edge_tracker_artifacts": 8,  
    "affected_edge_trackers": 1,  
    "affected_trackers": 1  
  },  
  "tasks_queue_flushed": true  
}
```

### Response status codes:

202 - Successfully aborted all distribution tasks

Response headers: N/A

### 5.11.3 | Generate Unlock Stuck Tasks Token

**Description:** Generates an execution token to unlock all stuck distribution tasks. This key is used with the [Unlock Stuck Tasks REST API](#).

**Since:** 2.23.0

**Security:** Admin only

**Usage:** GET /api/v1/maintenance/generate\_token/unlock\_stuck

**Request headers:** N/A

**Consumes:** application/json

**Produces:** application/json

### Request Example

```
$ curl -XGET -u admin:password "http://localhost:8080/api/v1/maintenance/generate_token/unlock_stuck"
```

### response.json

```
{  
  "token": "JEv4CnrZNhmgtkRV9akMGSrozGEoaoBs3okv9SFusdhR3hUKiWdKwAhoeP1SLEy8hFZqFhE"  
}
```

### Response status codes:

200 - Success

### 5.11.4 | Unlock Stuck Tasks

**Description:** Unlocks all stuck distribution tasks. Requires an [execution token](#).

**Since:** 2.23.0

**Security:** Admin only

**Usage:** POST /api/v1/maintenance/execute/unlock\_stuck

**Request headers:** N/A

## JFrog REST APIs Displayed in the header

**Consumes:** Content-Type: text/plain

**Produces:** application/json

### Request Example:

```
$ curl -XPOST -H "Content-Type: text/plain" -u admin:password "http://localhost:8080/api/v1/maintenance/execute/unlock_stuck?dryRun=false" --data-raw "token..."
```

Field	Type	Required	Default Value	Since	Description
dryRun	Query Param	yes	true	2.23.0	If set to true, parses, validates, and returns the list of tasks that would be unlocked, but does not execute the operation.

### Sample Response:

```
{
  "unlocked": // true/false - corresponds to the dryRun param.
  "stuck_distributions" : [
    {
      "bundle_name" : "rb",
      "bundle_version" : "1.0.0",
      "release_bundles_schema" : "rbv1",
      "distribution_friendly_id" : "2",
      "status" : "CREATED",
      "distribution_tracker_id" : "111100000"
    },
    {
      "bundle_name" : "rb2",
      "bundle_version" : "2.0.0",
      "release_bundles_schema" : "rbv2",
      "distribution_friendly_id" : "1",
      "status" : "IN_PROGRESS",
      "distribution_tracker_id" : "211100000"
    }
  ]
}
```

### Response status codes:

202 - Successfully aborted all distribution tasks

**Response headers:** N/A

## 5.12 | XRAY

### 5.12.1 | Triggers Xray Release Bundle Version Indexing

**Description:** Triggers Xray indexing of the release bundle version.

**Since:** 2.0.0

**Security:** Authenticated users only. User must have matching Release Bundle write permissions.

**Usage:** POST /api/v1/release\_bundle/:name/:version/trigger\_xray\_scan

**Request headers:** N/A

**Consumes:** N/A

### cURL Example

```
$ curl -X POST -u user:password
"http://ARTIFACTORY_SERVER_HOSTNAME:8082/distribution/api/v1/release_bundle/:name/:version/trigger_xray_scan"
```

**Response status codes:**

200 - Success

## 5.13 | ERROR RESPONSES

Status code	Reason	Suggested actions
400	Invalid request parameters (headers / body)	Compare request against specification
401	Endpoint requires authentication	Repeat request with authentication credentials
403	Endpoint permission requirements are not met	Response will include necessary permissions
500	Unexpected error during request handling	Check distribution logs

## 6 | Pipelines REST APIs

This documentation includes all the REST APIs for JFrog Pipelines.

### 6.1 | Introduction to the Pipelines REST APIs

#### JFrog Pipelines Deprecation Notice

JFrog Pipelines is in sunset mode and will reach end-of-life on May 1, 2026. This product will no longer receive feature updates during the sunset and will be unavailable as of the EoL date.

For more information on timelines, see [JFrog Platform Deprecations](#).

JFrog Pipelines provides a convenient and up-to-date self-descriptive API that can be used by various tools/frameworks to automate the creation and execution of pipelines.

#### Usage

Pipelines REST API endpoints can be invoked in any of the standard ways to invoke a RESTful API. This section describes how to use the Pipelines REST API using cURL as an example.

#### Using and Configuring cURL

You can download cURL [here](#). Learn how to use and configure cURL [here](#).

#### Authentication

Pipelines' REST API requires using an access token as a bearer token in the authorization header.

The example below demonstrates how to invoke the REST API to get the list of configured pipelines.

- You have JFrog Pipelines running on your local system, on **port 8082** (<http://localhost:8082/pipelines/api>)
- You have created an [Access Tokens](#)

#### Using cURL with the REST API

## JFrog REST APIs Displayed in the header

```
$ curl -H 'Authorization: Bearer <token>' 'http://localhost:8082/pipelines/api/v1/pipelines' -X GET -H 'Content-Type: application/json'
```

### 6.1.1 | Common Optimization Parameters

Light and Include are common optimization parameters that can be applied to various API endpoints to tailor the response to your specific needs.

#### light

The light parameter allows you to request a lighter version of the response, often excluding some non-essential or resource-intensive data. This can help improve API performance and reduce the amount of data transferred.

#### Usage

- **light**: A boolean parameter (usually true or false) that determines whether to enable the lightweight response mode.
- Default value: false (i.e., the full response is returned).
- Acceptable values: true to enable the lightweight response, false to get the full response.

#### include

The include parameter allows you to specify additional related data to include in the response. This can help reduce the number of subsequent API calls needed to retrieve related information.

#### Usage

- **include**: A comma-separated list of related resources or fields that should be included in the response.
- Acceptable values: A list of valid resource names or fields.

### 6.1.2 | Pagination Parameters

Limit and Skip parameters can be used to control the number of results returned and to skip a certain number of results, respectively.

#### limit (optional)

The limit parameter allows you to control the maximum number of items returned in a single paginated request. It determines the page size, helping you manage the amount of data retrieved. By setting a limit, you can request a specific number of results per page, which is useful for optimizing data transfer and rendering performance.

#### Usage

- **limit**: An integer value representing the maximum number of items to include in the response.
- Acceptable values: A positive integer greater than zero.

#### Example

To request 20 items per page, you would include `limit=20` in your request.

#### skip (optional)

The skip parameter allows you to skip a specified number of items in the paginated result set. This parameter is useful for navigating to a specific page of results by skipping a certain number of items from the beginning of the dataset.

#### Usage

- **skip**: An integer value representing the number of items to skip in the result set before returning data.
- Default value: 0 (i.e., no items are skipped).
- Acceptable values: A non-negative integer.

#### Example

# JFrog REST APIs Displayed in the header

To retrieve results starting from the 21st item (assuming a page size of 20), you would include `skip=20` in your pagination request.

## Pagination Flow

- Use the `limit` parameter to specify how many items you want per page.
- Use the `skip` parameter to navigate to a specific page by skipping a certain number of items.
- Combine `limit` and `skip` to paginate through the entire result set systematically.

## Note

- Be cautious when setting large values for `limit`, as it can result in heavy data transfer and increased response times.
- Ensure that the `skip` value is within the bounds of your result set to avoid errors.

## 6.2 | SYSTEM

### 6.2.1 | Get Status Codes

**Description:** Gets all status/system codes used in various parts of the system.

**Security:** Requires a valid user

**Usage:** GET `api/v1/systemCodes?group=status`

**Produces:** application/json

**Query Parameters:**

Parameter	Type	Description	Required/Optional
group	String	A filter on the list based on the <code>group</code> property of <code>systemCodes</code> .	Optional

**Response:**

```
200 OK
[
  {
    "code": 4000,
    "name": "queued",
    "group": "status",
    "createdBy": "54188262bc4d591ba438d62a",
    "updatedBy": "54188262bc4d591ba438d62a",
    "createdAt": "2016-06-01T00:00:00.000Z",
    "updatedAt": "2016-06-01T00:00:00.000Z"
  },
  {
    "code": 4001,
    "name": "processing",
    "group": "status",
    "createdBy": "54188262bc4d591ba438d62a",
    "updatedBy": "54188262bc4d591ba438d62a",
    "createdAt": "2016-06-01T00:00:00.000Z",
    "updatedAt": "2016-06-01T00:00:00.000Z"
  },
  {
    "code": 4002,
    "name": "success",
    "group": "status",
    "createdBy": "54188262bc4d591ba438d62a",
    "updatedBy": "54188262bc4d591ba438d62a",
    "createdAt": "2016-06-01T00:00:00.000Z",
    "updatedAt": "2016-06-01T00:00:00.000Z"
  }
]
```

# JFrog REST APIs Displayed in the header

```
"updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4003,
  "name": "failure",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4004,
  "name": "error",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4005,
  "name": "waiting",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4006,
  "name": "cancelled",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4007,
  "name": "unstable",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4008,
  "name": "skipped",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4009,
  "name": "timeout",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4010,
  "name": "stopped",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
```

# JFrog REST APIs Displayed in the header

```
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2016-06-01T00:00:00.000Z",
"updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4011,
  "name": "deleted",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4012,
  "name": "cached",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4013,
  "name": "cancelling",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4014,
  "name": "timingOut",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4015,
  "name": "creating",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4016,
  "name": "ready",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4017,
  "name": "online",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4018,
  "name": "offline",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
}
```

## JFrog REST APIs Displayed in the header

```
"group": "status",
"createdBy": "54188262bc4d591ba438d62a",
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2016-06-01T00:00:00.000Z",
"updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4019,
  "name": "unhealthy",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4020,
  "name": "onlineRequested",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4021,
  "name": "offlineRequested",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "code": 4022,
  "name": "pendingApproval",
  "group": "status",
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
}
]
```

### 6.2.2 | Get System Information

**Description:** Gets system version and service ID information.

**Security:** Requires a valid user

**Usage:** GET api/v1/system/info

**Produces:** application/json

**Sample Response:**

```
200 OK
{
  "version": "1.1.0",
  "serviceId": "string"
}
```

### 6.2.3 | Get System Config Status

## JFrog REST APIs Displayed in the header

**Description:** Gets a boolean to show the status of Pipelines config. If you have added/edited nodePool/pipelineSource/projectIntegration, this API returns hasPipelinesConfigChanged as true. If no configs have changed, this API returns hasPipelinesConfigChanged as false.

**Security:** Requires a valid user

**Usage:** GET api/v1/system/configStatus

**Consumes:** application/json

**Query Parameters:** None

**Produces:** application/json

**Sample Response:**

```
{  
    "hasPipelinesConfigChanged": true  
}
```

**Response Codes:**

200: Success

### 6.2.4 | Get System Health Status

**Description:** Gets system health status report.

**Note**

Only admins can see detailed status of the services. Non-admin users can only see the general status of Pipelines services.

**Security:** Requires a valid user

**Usage:** GET api/v1/system/health

**Consumes:** application/json

**Query Parameters:** None

**Produces:** application/json

**Sample Response (Admins):**

```
{  
    "isHealthy": true,  
    "timestamp": "2021-04-19T10:28:08.788Z",  
    "services": [  
        {  
            "name": "RabbitMQ HTTPS",  
            "healthCheckEnabled": true,  
            "isHealthy": true,  
            "timestamp": "2021-04-19T10:28:08.626Z"  
        },  
        {  
            "name": "RabbitMQ AMQPS",  
            "healthCheckEnabled": true,  
            "isHealthy": true,  
            "timestamp": "2021-04-19T10:28:08.788Z"  
        },  
        {  
            "name": "PostgresDB",  
            "healthCheckEnabled": true,  
            "isHealthy": true,  
            "timestamp": "2021-04-19T10:27:09.653Z"  
        },  
        {  
            "name": "Vault",  
            "healthCheckEnabled": true,  
            "isHealthy": true,  
            "timestamp": "2021-04-19T10:27:09.653Z"  
        }  
    ]  
}
```

```
"isHealthy": true,  
"timestamp": "2021-04-19T10:28:08.619Z"  
,  
{  
  "name": "Artifactory (Access)",  
  "healthCheckEnabled": true,  
  "isHealthy": true,  
  "timestamp": "2021-04-19T10:27:08.979Z"  
}  
]  
}
```

**Sample Response (Non-Admins):**

```
{"status": "OK"}
```

**Response Codes:**

200: Success

## 6.3 | SYSTEM LOG LEVEL

### 6.3.1 | Update System Log Level

**Description:** Change Pipelines services log level in runtime. This overrides the value set for Logging Configuration in the Pipelines System YAML.

**Security:** Requires admin credentials

**Usage:** PUT api/v1/systemConfigs/loggers

**Produces:** application/json

**Request Parameters:**

Parameter	Type	Description	Required/Optional
service	String	The service for which you want to change the log level. Valid values are: <ul style="list-style-type: none"><li>• api</li><li>• www</li><li>• pipelineSync</li><li>• runTrigger</li><li>• stepTrigger</li><li>• cron</li><li>• nexec</li><li>• hookHandler</li><li>• marshaller</li><li>• logup</li><li>• extensionSync</li><li>• templateSync</li><li>• reqSealer</li><li>• eventHandler</li></ul>	Required
level	String	The logging level you want for the service. Valid values are: <ul style="list-style-type: none"><li>• error</li><li>• warn</li><li>• info</li><li>• debug</li><li>• trace</li></ul>	Required

**Sample Request:**

**PUT /pipelines/api/v1/systemConfigs/loggers**

```
{
  "configValue": {
    "service": "api",
    "level": "info"
  }
}
```

**Sample Response:**

```
{
  "configName": "loggers"
  "configValue": {
    "api": {
      "configuredLevel": "info",
      "defaultLevel": "trace"
    }
  }
}
```

## JFrog REST APIs Displayed in the header

### 6.3.2 | Delete System Log Level

**Description:** Deletes current Pipelines system log level and reverts it to the value set for Logging Configuration in the Pipelines System YAML.

**Security:** Requires admin credentials

**Usage:** DELETE api/v1/systemConfigs/loggers?serviceName=api

**Produces:** application/json

**URL parameters:**

Parameter	Type	Description	Required/Optional
serviceName	String	The service for which you want to delete the log level. Valid values are: <ul style="list-style-type: none"><li>• api</li><li>• www</li><li>• pipelineSync</li><li>• runTrigger</li><li>• stepTrigger</li><li>• cron</li><li>• nexec</li><li>• hookHandler</li><li>• marshaller</li><li>• logup</li><li>• extensionSync</li><li>• templateSync</li><li>• reqSealer</li><li>• eventHandler</li></ul>	Required

**Parameters:** Ignored

**Request Parameters:** Ignored

**Sample Response:**

DELETE /pipelines/api/v1/systemConfigs/loggers?serviceName=api

```
{  
  "configName": "loggers"  
  "configValue": {  
    "api": {  
      "configuredLevel": "null",  
      "defaultLevel": "trace"  
    }  
  }  
}
```

### 6.3.3 | Get System Log Level Information

# JFrog REST APIs Displayed in the header

**Description:** Gets Pipelines system log level information.

**Security:** Requires admin credentials

**Usage:** GET api/v1/systemConfigs/loggers

**Produces:** application/json

**Sample Response:**

**GET pipelines/api/v1/systemConfigs/loggers**

```
200 OK {  
  "configName": "loggers",  
  "configValue": {  
    "api": {  
      "configuredLevel": "info",  
      "defaultLevel": "trace"  
    },  
    "pipelinesync": {  
      "configuredLevel": "info",  
      "defaultLevel": "trace"  
    },  
  }  
}
```

## 6.4 | METRICS

### 6.4.1 | Get Pipelines Metrics Data

**Description:** Gets metrics data for Pipelines, such as CPU, memory, number of pipelines per project, and more.

**Security:** Requires a valid user

**Usage:** GET api/v1/metrics

**Produces:** text/plain

**Sample Response:**

**GET /pipelines/api/v1/metrics**

```
app_self_metrics_calc_seconds 1.008 1643351320592  
app_self_metrics_count_total 3 1643351320592  
sys_cpu_user_seconds 491.934057 1643351320592  
sys_cpu_system_seconds 117.606662 1643351320592  
sys_cpu_total_seconds 609.540719 1643351320592  
nodejs_heap_read_only_space_total 151552 1643351320592  
nodejs_heap_read_only_space_used_total 150392 1643351320592  
nodejs_heap_new_space_total 4194304 1643351320592  
nodejs_heap_new_space_used_total 778568 1643351320592  
nodejs_heap_old_space_total 59654144 1643351320592  
nodejs_heap_old_space_used_total 56207712 1643351320592  
nodejs_heap_code_space_total 2981888 1643351320592  
nodejs_heap_code_space_used_total 2350944 1643351320592  
nodejs_heap_map_space_total 3149824 1643351320592  
nodejs_heap_map_space_used_total 2070072 1643351320592  
nodejs_heap_large_object_space_total 10653696 1643351320592  
nodejs_heap_large_object_space_used_total 10589528 1643351320592  
nodejs_heap_code_large_object_space_total 49152 1643351320592  
nodejs_heap_code_large_object_space_used_total 2880 1643351320592  
nodejs_heap_new_large_object_space_total 0 1643351320592  
nodejs_heap_new_large_object_space_used_total 0 1643351320592  
sys_memory_free_bytes 144891904 1643351320592  
sys_memory_total_bytes 4135915520 1643351320592  
  
app_self_metrics_calc_seconds 0.008 1643351377499  
app_self_metrics_count_total 1 1643351377499
```

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```
jfpip_pipelines_per_project_count{project="default"} 1 1643351377499
jfpip_pipelines_count 1 1643351377499
```

### 6.4.2 | Get Pipelines Application Metrics Data

**Description:** Get the following application metrics data for Pipelines:

- Pipelines per Project count
- Pipelines count
- Concurrent active builds count
- Concurrent allowed builds count
- Concurrent available builds count

**Security:** Requires a valid user

**Usage:** GET api/v1/metrics/application

**Produces:** text/plain

**Sample Response:**

**GET /pipelines/api/v1/metrics/application**

```
# HELP jfpip_pipelines_per_project_count Number of pipelines per project
# UPDATED jfpip_pipelines_per_project_count 1677837235670
# TYPE jfpip_pipelines_per_project_count counter
jfpip_pipelines_per_project_count{project="default"} 1 1677837235670
# HELP jfpip_pipelines_count Total number of pipelines
# UPDATED jfpip_pipelines_count 1677837235670
# TYPE jfpip_pipelines_count counter
jfpip_pipelines_count 1 1677837235670
# HELP jfpip_concurrent_active_builds_count Available concurrent build count
# UPDATED jfpip_concurrent_active_builds_count 1677837235670
# TYPE jfpip_concurrent_active_builds_count counter
jfpip_concurrent_active_builds_count 0 1677837235670
# HELP jfpip_concurrent_allowed_builds_count Available concurrent build count
# UPDATED jfpip_concurrent_allowed_builds_count 1677837235670
# TYPE jfpip_concurrent_allowed_builds_count counter
jfpip_concurrent_allowed_builds_count 3 1677837235670
# HELP jfpip_concurrent_available_builds_count Available concurrent build count
# UPDATED jfpip_concurrent_available_builds_count 1677837235670
# TYPE jfpip_concurrent_available_builds_count counter
jfpip_concurrent_available_builds_count 3 1677837235670
```

## 6.5 | PROJECTS

### 6.5.1 | Get Projects

**Description:** Gets a list of those projects that have an associated Pipelines object, such as an integration, pipeline source or node pool.

**Note**

To get the list of all the Projects available in Artifactory, see [Get Projects List](#).

**Security:** Requires admin credentials

**Usage:** GET api/v1/projects

**Produces:** application/json

**Query String Parameters:**

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Parameter	Type	Description	Required/Optional
projectIds	String	A filter on the list based on the id property of the project. Expects a comma separated string of projectIds.	Optional
names	String	A filter on the list based on the name property of the project. Expects a comma separated string of names.	Optional
sourceIds	String	A filter on the list based on the sourceId property of the project. Expects a comma separated string of sourceIds.	Optional
providerIds	String	A filter on the list based on the providerId property of the project. Expects a comma separated string of providerIds.	Optional

**Response:**

**GET /pipelines/api/v1/projects**

```
[
  {
    "systemPropertyBag": {
      "sshPublicKey": "ssh-rsa {snipped for brevity}\n"
    },
    "configPropertyBag": {
      "defaultNodePoolId": 1
    },
    "id": 1,
    "name": "default",
    "sourceId": "default_source_id",
    "providerId": 1,
    "isOrphaned": false,
    "createdAt": "2019-05-01T00:00:00.000Z",
    "updatedAt": "2019-05-01T00:00:00.000Z"
  },
  {
    "systemPropertyBag": {
      "sshPublicKey": "ssh-rsa {snipped for brevity}\n"
    },
    "configPropertyBag": {
      "defaultNodePoolId": 2
    },
    "id": 2,
    "name": "newProj1",
    "sourceId": "new1",
    "providerId": 1,
    "isOrphaned": false,
    "createdAt": "2022-03-30T10:20:22.140Z",
    "updatedAt": "2022-03-30T10:20:22.419Z"
  },
  {
    "systemPropertyBag": {
      "sshPublicKey": "ssh-rsa {snipped for brevity}\n"
    },
    "configPropertyBag": null,
    "id": 3,
    "name": "newProj3",
    "sourceId": "new3",
    "providerId": 1,
    "isOrphaned": false,
    "createdAt": "2022-03-30T10:30:05.329Z",
    "updatedAt": "2022-03-30T10:30:05.329Z"
  }
]
```

```
    }  
]
```

**Response Codes:**

200: Success

400: If required fields are not included in the request body or if there are invalid parameters.

## 6.6 | BUILD PLANE IMAGES

### 6.6.1 | Add Custom AMI Image

**Description:** Add a custom AMI Image.

**Security:** Requires admin credentials

**Usage:** POST api/v1/buildPlaneImages

**Produces:** application/json

**Request Parameters:**

Parameter	Data Type	Description
name	String	Name of the build plane image.
masterIntegrationId	String	The Id of the master integration. For AWS type, masterIntegrationId is 46.
imageId	String	The Id of the custom AMI you created.
region	String	The AWS region.
isAvailable	Boolean	Set as true if the AMI is available.
architecture	String	x86_64, which is the architecture Pipelines supports.
operatingSystem	String	The operating systems supported for the selected architecture. For a list of supported OS and architecture combinations, refer to <a href="#">Runtime Images</a> .
metadataPropertyBag	Object	Object containing configuration for AWS.

**Sample Response:**

**Response - Shortened for brevity**

```
{  
  "metadataPropertyBag": {  
    "projectName": "pipelines-cloud-stg",  
    "imageName": "us-west1-image-for-x86-64-ubuntu18-1619591031886"  
  },  
  "id": 10,
```

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```
"name": "us-west1 image for x86_64 Ubuntu_18.04",
"masterIntegrationId": 76,
"imageId": "6019675003889729941",
"region": "us-west1",
"isAvailable": true,
"architecture": "x86_64",
"operatingSystem": "Ubuntu_18.04",
"isInternal": false,
"createdAt": "2021-04-28T00:00:00.000Z",
"updatedAt": "2021-04-28T00:00:00.000Z"
}
```

### 6.6.2 | Get Build Plane Image Ids

**Description:** Gets a list of machine Image Ids used to bring up dynamic nodes.

**Security:** Requires admin credentials

**Usage:** GET api/v1/buildPlaneImages

**Produces:** application/json

**Query Parameters:**

Parameter	Data Type	Description	Required/Optional
buildPlaneImageIds	String	A filter on the list based on the id property of the buildPlaneImage. Expects a comma separated string of buildPlaneImageIds.	Required
masterIntegrationIds	String	A filter on the list based on the masterIntegrationId that the buildPlaneImage belongs to. Expects a comma separated list of masterIntegrationIds. For more information, see Get MasterIntegrations.	Required
isAvailable	Boolean	A filter on the list based on the isAvailable property of buildPlaneImage.	Required

**Sample Response:**

**Response - Shortened for brevity**

```
[  
  {  
    "metadataPropertyBag": {  
      "projectName": "pipelines-cloud-stg",  
      "imageName": "us-west1-image-for-x86_64-ubuntu20-1620598096542"  
    },  
    "id": 8,  
    "name": "us-west1 image for x86_64 Ubuntu_20.04",  
    "masterIntegrationId": 76,  
    "imageId": "9171597764075670053",  
    "region": "us1",  
    "isAvailable": true,  
    "architecture": "x86_64",  
    "operatingSystem": "Ubuntu_20.04",  
    "createdAt": "2021-01-06T00:00:00.000Z",  
    "updatedAt": "2021-01-06T00:00:00.000Z"  
  },  
  {
```

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```
"metadataPropertyBag": {  
    "type": "published",  
    "plan": {  
        "name": "x86_64-ubuntu_20_04",  
        "product": "pipelines-buildplane",  
        "publisher": "jfrog"  
    }  
},  
"id": 95,  
"name": "westeurope image for x86_64 Ubuntu_20.04",  
"masterIntegrationId": 87,  
"imageId": "jg:pipelines-buildplane:x86_64-ubuntu_20_04:1.10.1:pe",  
"region": "westeurope",  
"isAvailable": true,  
"architecture": "x86_64",  
"operatingSystem": "Ubuntu_20.04",  
"createdAt": "2021-03-16T00:00:00.000Z",  
"updatedAt": "2021-03-16T00:00:00.000Z"  
},  
{  
    "metadataPropertyBag": {  
        "type": "published",  
        "plan": {  
            "name": "x86_64-ubuntu_20_04",  
            "product": "pipelines-buildplane",  
            "publisher": "jfrog"  
        }  
    },  
    "id": 96,  
    "name": "eastus image for x86_64 Ubuntu_20.04",  
    "masterIntegrationId": 87,  
    "imageId": "jg:pipelines-buildplane:x86_64-ubuntu_20_04:1.10.1:tus",  
    "region": "eastus",  
    "isAvailable": true,  
    "architecture": "x86_64",  
    "operatingSystem": "Ubuntu_20.04",  
    "createdAt": "2021-03-16T00:00:00.000Z",  
    "updatedAt": "2021-03-16T00:00:00.000Z"  
}  
]  
]
```

## 6.7 | NODES

### 6.7.1 | Add a Node

**Description:** Adds a node.

**Security:** Requires admin credentials

**Usage:** POST api/v1/nodes

**Produces:** application/json

**Parameters:**

Parameter	Data Type	Description	Required/Optional
projectId	Integer	Id of the Project.	Required
friendlyName	String	Name of the node pool.	Required

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Parameter	Data Type	Description	Required/Optional
isOnDemand	Boolean	Set to true for dynamic node pool. Set to false for static node pool.	Required
isAutoInitialized	Boolean	Determine auto or manual initialization.	Required
IPAddress	String	Node address for auto-initialization.	Required if isAutoInitialized is set as true.
isSwapEnabled	Boolean	Enable/disable the use of swap space to increase the amount of virtual memory available to the node.  Not available to Windows node pools.	Optional
sshPort	String	Port to use for SSH for auto-initialization. This is usually port 22, but is configurable.  For Auto initialization type only.	Optional
instanceId	String		Optional
nodePoolId	Integer	Id of the node pool.	Required
providerMetadataPropertyBag		Object containing configuration for the cloud provider of on-demand node.  You can set the following properties:	Optional

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Parameter	Data Type	Description	Required/Optional
		<ul style="list-style-type: none"> <li>• sshUser</li> <li>• sshPort</li> <li>• region</li> <li>• instanceSize</li> <li>• imageId</li> <li>• zone</li> <li>• imageMetadata</li> <li>• nicName</li> <li>• vmName</li> <li>• resourceGroupName</li> <li>• subscriptionId</li> <li>• subnetName</li> <li>• vnetName</li> <li>• securityGroupName</li> <li>• tags</li> <li>• publicSshKey</li> <li>• adminUsername</li> <li>• adminPassword</li> </ul>	

## Sample Request:

```
curl -L -X POST 'http://localhost:8082/pipelines/api/v1/nodes' \
-H 'Authorization: Bearer <token>' \
-H 'Content-Type: application/json' \
--data-raw '{
  "projectId": 1,
  "friendlyName": "node1",
  "isOnDemand": true,
  "isAutoInitialized": false,
  "nodePoolId": 2
}'
```

## Sample Response:

```
{
  "instanceInfo": null,
  "providerMetadataPropertyBag": {
    "instanceSize": "n1-standard-1",
    "operatingSystem": "Ubuntu_18.04",
    "uniqueToken": "bd7e3519-aab5-4422-a539-8132494d4175"
  },
  "initPropertyBag": {
    "insecureDockerRegistries": []
  },
  "systemPropertyBag": {
    "token": "358e3342-7d8f-4bf2-b783-b25bbc90f605"
  },
  "id": 340,
  "projectId": 1,
  "statusCode": 4005,
  "friendlyName": "node1",
```

```
"isAutoInitialized": false,  
"instanceId": null,  
"IPAddress": null,  
"isOnDemand": true,  
"statusLastUpdatedAt": "2021-04-30T11:58:18.013Z",  
"isSwapEnabled": false,  
"createdBy": "3",  
"updatedBy": "3",  
"stopRequested": false,  
"nodePoolId": 2,  
"intendedBuildPlaneVersion": "0.0.0-m000",  
"projectIntegrationId": 11,  
"sshPort": null,  
"sshUser": null,  
"updatedAt": "2021-04-30T11:58:18.079Z",  
"createdAt": "2021-04-30T11:58:18.013Z",  
"isDebug": null,  
"currentBuildPlaneVersion": null,  
"stepId": null,  
"lastInitializedAt": null,  
"provisionedAt": null  
}
```

**Response Codes:**

200: Success

400: If required fields are not included in the request body or if there are invalid parameters.

### 6.7.2 | Delete a Node

**Description:** Deletes a node based on node Id.

**Security:** Requires a valid user

**Usage:** DELETE api/v1/nodes/{nodeId}

**Produces:** application/json

**URL parameters:**

Parameter	Description
nodeId	Id of the node to be deleted.

**Parameters:** Ignored

**Request Parameters:** Ignored

**Sample Response:**

**DELETE /pipelines/api/v1/nodes/2**

```
{  
  "id": 2  
}
```

**Response Codes:**

200: Success

400: If the id is not an integer

404: If the node is not found

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## 6.7.3 | Get Nodes

**Description:** Gets a list of nodes.

**Security:** Requires a valid user

**Usage:** GET api/v1/nodes

**Produces:** application/json

**Query Parameters:**

Parameter	Data Type	Description	Required/Optional
limit	Integer	A limit on the number of nodes returned.	Optional
skip	Integer	A cursor for use in pagination. 'skip' defines the number of nodes skipped.	Optional
isOnDemand	Boolean	Set to true for dynamic node pool. Set to false for static node pool.	Optional
provisionedAt	String	A filter on the list based on the provisionedAt property of the node.	Optional
statusLastUpdatedAt	String	A filter on the list based on the `statusLastUpdatedAt` property of the node.	Optional
isAutoInitialized	Boolean	A filter on the list based on the `isAutoInitialized` property of the node.	Optional
lastInitializedAt	Boolean	A filter on the list based on the `lastInitializedAt` property of the node. Exact matches only.	Optional
nodeIds	String	A filter on the list based on the `id` property of the node. Expects a comma separated string of nodeIds.	Optional
nodePoolIds	String	A filter on the list based on the `nodePoolId` property of the node. Expects a comma separated string of nodePoolIds.	Optional
projectIds	String	A filter on the list based on the `projectId` property of the node. Expects a comma separated string of projectIds.	Optional
statusCodes	String	A filter on the list based on the `statusCode` property of the node. Expects a comma separated string of statusCodes.	Optional
status	String	A filter on the list based on the 'status' of the node. Expects a comma separated value of statuses, which have corresponding	Optional

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Parameter	Data Type	Description	Required/Optional
		systemCodes.	
sortBy	String	The node properties to sort the results by. Expects a comma separated list of sorters.	Optional
sortOrder	Integer	A sort order based on the `sortBy` defined. If `1`, sorts the list in ascending order. If `-1`, sorts the list in descending order.	Optional

### Sample Response:

GET /pipelines/api/v1/nodes

```
[
  {
    "instanceInfo": null,
    "providerMetadataPropertyBag": null,
    "initPropertyBag": {
      "insecureDockerRegistries": [
        "146.148.104.158:8082"
      ]
    },
    "systemPropertyBag": {
      "token": "e772f6f5-54ff-44e6-adfc-76b2b4a65610"
    },
    "id": 2,
    "projectId": 1,
    "statusCode": 4002,
    "friendlyName": "test",
    "currentBuildPlaneVersion": "1.7.9",
    "intendedBuildPlaneVersion": "1.7.9",
    "isOnDemand": false,
    "isAutoInitialized": true,
    "isDebug": null,
    "isSwapEnabled": false,
    "IPAddress": "34.122.216.34",
    "sshPort": 22,
    "sshUser": "root",
    "instanceId": null,
    "stepId": null,
    "statusLastUpdatedAt": "2021-03-31T20:02:06.112Z",
    "lastInitializedAt": "2021-02-10T07:12:03.000Z",
    "provisionedAt": null,
    "projectIntegrationId": null,
    "nodePoolId": 1,
    "stopRequested": false,
    "createdBy": "3",
    "updatedBy": "5",
    "createdAt": "2021-02-10T07:11:56.557Z",
    "updatedAt": "2021-03-31T20:02:06.112Z"
  }
]
```

### Response Codes:

200: Success

### 6.7.4 | Get a Node

**Description:** Gets a node based on node Id.

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**Security:** Requires a valid user

**Usage:** GET api/v1/nodes/:nodeId

**Produces:** application/json

**URL parameters:**

Parameter	Data Type	Description
nodeid	Integer	The numeric id of the node being requested

**Sample Response:**

GET /pipelines/api/v1/nodes/2

```
[  
  {  
    "instanceInfo": null,  
    "providerMetadataPropertyBag": null,  
    "initPropertyBag": {  
      "insecureDockerRegistries": [  
        "146.148.104.158:8082"  
      ]  
    },  
    "systemPropertyBag": {  
      "token": "e772f6f5-54ff-44e6-adfc-76b2b4a65610"  
    },  
    "id": 2,  
    "projectId": 1,  
    "statusCode": 4002,  
    "friendlyName": "test",  
    "currentBuildPlaneVersion": "1.7.9",  
    "intendedBuildPlaneVersion": "1.7.9",  
    "isOnDemand": false,  
    "isAutoInitialized": true,  
    "isDebug": null,  
    "isSwapEnabled": false,  
    "IPAddress": "34.122.216.34",  
    "sshPort": 22,  
    "sshUser": "root",  
    "instanceId": null,  
    "stepId": null,  
    "statusLastUpdatedAt": "2021-03-31T20:02:06.112Z",  
    "lastInitializedAt": "2021-02-10T07:12:03.000Z",  
    "provisionedAt": null,  
    "projectIntegrationId": null,  
    "nodePoolId": 1,  
    "stopRequested": false,  
    "createdBy": "3",  
    "updatedBy": "5",  
    "createdAt": "2021-02-10T07:11:56.557Z",  
    "updatedAt": "2021-03-31T20:02:06.112Z"  
  }  
]
```

**Response Codes:**

200: Success

## 6.8 | NODE STATS

# JFrog REST APIs Displayed in the header

## 6.8.1 | Get Node Stats

**Description:** Gets a list of node stats.

**Security:** Requires a valid user

**Usage:** GET api/v1/nodeStats

**Produces:** application/json

**Parameters:**

Parameter	Data Type	Description	Required/Optional
nodeIds	String	A filter on the list based on the nodeId property of the nodeStat. Expects a comma separated string of nodeIds.	Required
limit	Integer	A limit on the number of nodeStats returned.	Optional
skip	Integer	A cursor for use in pagination. This parameter defines the number of nodeStats skipped.	Optional
reportedBefore	String	A filter on the list that returns stats that have reportedAt property less than reportedBefore.  Format: date-time	Optional
reportedAfter	String	A filter on the list that returns stats that have reportedAt property greater than reportedAfter.  Format: date-time	Optional
sortBy	String	The nodeStat properties to sort the results by. Expects a comma separated list of sorters.	Optional
sortOrder	Integer	A sort order based on the sortBy defined. If '1', sorts the list in ascending order. If '-1', sorts the list in descending order.	Optional

### Sample Request

```
curl -X GET 'https://mypipelines.io/pipelines/api/v1/nodeStats?nodeIds=2923995'
```

### Sample Response:

```
[  
  {  
    "id": 356045599,  
    "nodeId": 2925082,  
    "reportedAt": "2023-06-05T09:47:17.005Z",  
    "diskUsageInPercentage": "24",  
    "memoryUsageInPercentage": "14",  
    "cpuLoadInPercentage": "43",  
    "activeContainersCount": 0,  
    "totalContainersCount": 0,  
    "imageCount": 8,  
    "projectId": 7,
```

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```
"createdBy": null,  
"updatedBy": null,  
"createdAt": "2023-06-05T09:47:17.039Z",  
"updatedAt": "2023-06-05T09:47:17.039Z"  
}  
]
```

## Response Codes:

200: Success

## 6.9 | NODE POOLS

### 6.9.1 | Add a Node Pool

**Description:** Adds a node pool.

**Security:** Requires admin credentials

**Usage:** POST api/v1/nodePools

**Produces:** application/json

**Parameters:**

Parameter	Data Type	Description	Required/Optional
projectId	Integer	Id of the Project.	Required
name	String	Name of the node pool.	Required
isOnDemand	Boolean	Set to true for dynamic node pool. Set to false for static node pool.	Required
architecture	String	Set the architecture. This is currently limited to <code>x86_64</code> .	Required
operatingSystem	String	Operating systems supported for the selected architecture.  For a list of supported OS and architecture combinations, refer to <a href="#">Runtime Images</a> .	Required
nodeIdleIntervalInMins	Integer	Number of minutes a node can be idle before it is destroyed.	Required for dynamic node pools (if <code>isOnDemand</code> is set as true).
buildPlaneImageId	Integer	The build plane image Id. For more information, see <a href="#">Get Build Plane Image Ids</a> .	Required for dynamic node pools.

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Parameter	Data Type	Description	Required/Optional
projectIntegrationId	Integer	<p>The project integration Id. For information about obtaining integration Id's, see Get All Integrations.</p> <p>For more information, see Dynamic Node Integrations.</p>	Required for dynamic node pools.
providerMetadataPropertyBag	Object	<p>Object containing configuration for the cloud provider of on-demand nodePool.</p> <p>You can set the following properties:</p> <ul style="list-style-type: none"> <li>• <b>sshUser</b></li> <li>• <b>sshPort</b></li> <li>• <b>keyPairName</b></li> <li>• <b>securityGroupId</b></li> <li>• <b>subnetId</b></li> <li>• <b>instanceSize</b></li> <li>• <b>subnetName</b></li> <li>• <b>networkTags</b></li> <li>• <b>zone</b></li> <li>• <b>assignPublicIp</b></li> <li>• <b>publicSshKey</b></li> <li>• <b>subscriptionId</b></li> <li>• <b>resourceGroupName</b></li> <li>• <b>securityGroupName</b></li> <li>• <b>vnetName</b></li> <li>• <b>adminUsername</b></li> <li>• <b>adminPassword</b></li> <li>• <b>cpu</b></li> <li>• <b>memory</b></li> <li>• <b>storageClass</b></li> <li>• <b>labels</b></li> <li>• <b>namespace</b></li> </ul>	Required for dynamic node pools

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Parameter	Data Type	Description	Required/Optional
project	String	<p>An object containing a project name as an alternative to projectId.</p> <p>You can set the following properties:</p> <ul style="list-style-type: none"> <li>• <b>Name:</b> Name of the Project.</li> <li>• <b>Key:</b> A unique Project Key to identify and group your Projects.</li> </ul>	Optional
environments	String	An array of string environments to which the node pool is available in the project.	Optional
timeoutMS	Integer	<p>The maximum time (in minutes) after which pipeline steps will timeout. This timeout is used when your step does not have any timeout specified.</p> <p>Default value for timeout is 60 minutes.</p>	Optional
maxDiskUsagePercentage	Integer	<p>Limits the maximum disk usage. A build node that exceeds this maximum will be marked as failed.</p> <p>Integer between 0 and 100</p>	Optional
diskSizeinGB	Integer	<p>Configure dynamic node disk size.</p> <p>The minimum limit is:</p> <ul style="list-style-type: none"> <li>• AWS (Windows): 120 GB</li> <li>• Azure (Windows): 128 GB</li> <li>• Others: 60 GB</li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• This option is available for Pipelines on-premise versions only.</li> <li>• If the disk size is not specified, the node will use the image's disk size by default.</li> </ul>	Optional
isNatEnabled	Boolean	When set to true, enables NAT.	Optional
isCacheEnabled	Boolean	When set to true, enables node caching.	Optional
cacheSettingsPropertyBag	Integer	Object containing cache settings if isCacheEnabled is set to true.	Optional

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Parameter	Data Type	Description	Required/Optional
		<ul style="list-style-type: none"> <li>• <b>nodeStopSetting</b></li> <li>• <b>nodeStopDayOfWeek</b>: On the day of the week</li> <li>• <b>nodeStopIntervalDays</b>: By the number of days</li> </ul> <p><b>Example</b></p> <pre>"cacheSettingsPropertyBag": {   "nodeStopSetting": "nodeStopIntervalDays",   "nodeStopDayOfWeek": "sunday";   "nodeStopIntervalDays": 1;</pre>	
permissions	Object	<p>Set permissions to restrict node pool use.</p> <p>You can set the following properties:</p> <ul style="list-style-type: none"> <li>• <b>allowAllPipelineSources</b>: Add all the existing and future Pipeline Sources including to this permission target.</li> <li>• <b>includePatterns</b>: Specify an include pattern.</li> <li>• <b>excludePatterns</b>: Specify an exclude pattern.</li> </ul>	Optional
allowAllPipelineSources	Boolean	<p>When set as true, pipelines loaded from any pipeline source can use this node pool.</p> <p>Set as false to restrict node pool use to a set of pipeline sources.</p>	Optional
initPropertyBag	Object	<p>Contains configuration to be applied during node initialization.</p> <p>The following property can be set:</p> <p><b>insecureDockerRegistries</b>: List of insecure docker registries to be allowed on the node.</p>	Optional

### Sample Request:

```
curl -L -X POST 'http://localhost:8082/pipelines/api/v1/nodepools' \
-H 'Authorization: Bearer <token>' \
-H 'Content-Type: application/json' \
--data-raw '{
  "providerMetadataPropertyBag": {
    "instanceSize": "n1-standard-1",
    "subnetName": "jfrog-usw1-dynamicnodes",
    "networkTags": [
      "behind-nat",
      "jenkins",
      "pipelines",
      "xray-app",
      "jenkins"
    ]
  }
}'
```

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```
        "xray-apps"
    ],
    "zone": "us-west1-b"
},
"projectId": 1,
"name": "NodePool2",
"isOnDemand": true,
"architecture": "x86_64",
"operatingSystem": "Ubuntu_18.04",
"projectIntegrationId": 11,
"buildPlaneImageId": 17,
"nodeIdleIntervalInMins": 20
}'
```

### Sample Response:

```
{
  "providerMetadataPropertyBag": {
    "instanceSize": "n1-standard-1",
    "subnetName": "jfrog-usw1-dynamicnodes",
    "networkTags": [
      "behind-nat",
      "jenkins",
      "pipelines",
      "xray-app",
      "xray-apps"
    ],
    "zone": "us-west1-b"
  },
  "cacheSettingsPropertyBag": null,
  "initPropertyBag": null,
  "permissions": {
    "allowAllPipelineSources": true
  },
  "id": 10,
  "projectId": 1,
  "name": "NodePool2",
  "isOnDemand": true,
  "architecture": "x86_64",
  "operatingSystem": "Ubuntu_18.04",
  "buildPlaneImageId": 17,
  "nodeIdleIntervalInMins": 20,
  "projectIntegrationId": 11,
  "isCacheEnabled": false,
  "numberOfNodes": 1,
  "maxDiskUsagePercentage": 90,
  "updatedAt": "2021-04-30T12:26:37.540Z",
  "createdAt": "2021-04-30T12:26:37.540Z",
  "environments": null,
  "queueName": null,
  "timeoutMS": null,
  "isNatEnabled": null,
  "diskSizeinGB": null
}
```

### Response Codes:

200: Success

400: If required fields are not included in the request body or if there are invalid parameters.

## 6.9.2 | Update a Node Pool

**Description:** Updates a node pool.

**Security:** Requires admin credentials

**Usage:** PUT api/v1/nodePools/{nodePoolId}

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Produces: application/json

URL Parameters:

Parameter	Data Type	Description
nodePoolId	Integer	Numeric node pool Id

Parameters:

Parameter	Data Type	Description	Required/Optional
name	String	Name of the node pool.	Required
environments	String	An array of string environments to which the node pool is available in the project.	Optional
operatingSystem	String	Operating systems supported for the selected architecture.  For a list of supported OS and architecture combinations, refer to <a href="#">Runtime Images</a> .	Required
timeoutMS	Integer	The maximum time (in minutes) after which pipeline steps will timeout. This timeout is used when your step does not have any timeout specified.  Default value for timeout is 60 minutes.	Optional
maxDiskUsagePercentage	Integer	Limits the maximum disk usage. A build node that exceeds this maximum will be marked as failed.  Integer between 0 and 100	Optional
diskSizeinGB	Integer	Configure dynamic node disk size.  The minimum limit is: <ul style="list-style-type: none"><li>• AWS (Windows): 120 GB</li><li>• Azure (Windows): 128 GB</li><li>• Others: 60 GB</li></ul> <b>Note</b> <ul style="list-style-type: none"><li>• This option is available for Pipelines on-premise versions only.</li><li>• If the disk size is not specified, the node will use the image's disk size by default.</li></ul>	Optional

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Parameter	Data Type	Description	Required/Optional
nodeIdleIntervalInMins	Integer	Number of minutes a node can be idle before it is destroyed.	Required for dynamic node pools (if <code>isOnDemand</code> is set as <code>true</code> ).
isNatEnabled	Boolean	When set to true, enables NAT.	Optional
isCacheEnabled	Boolean	When set to true, enables node caching.	Optional
cacheSettingsPropertyBag	Object	<p>Object containing cache settings if <code>isCacheEnabled</code> is set to true.</p> <ul style="list-style-type: none"> <li>• <b>nodeStopSetting</b></li> <li>• <b>nodeStopDayOfWeek</b>: On the day of the week</li> <li>• <b>nodeStopIntervalDays</b>: By the number of days</li> </ul> <p><b>Example</b></p> <pre>"cacheSettingsPropertyBag": {     "nodeStopSetting": "nodeStopIntervalDays",     "nodeStopDayOfWeek": "sunday";     "nodeStopIntervalDays": 1;</pre>	Optional
buildPlaneImageId	Integer	The build plane image Id. For more information, see Get Build Plane Image Ids.	Required for static node pool.
projectIntegrationId	Integer	<p>The project integration Id. For information about obtaining integration Id's, see Get All Integrations.</p> <p>For more information, see Dynamic Node Integrations.</p>	Required for dynamic node pool.
providerMetadataPropertyBag	Object	<p>Object containing configuration for the cloud provider of on-demand nodePool.</p> <p>You can set the following properties:</p>	Optional

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Parameter	Data Type	Description	Required/Optional
		<ul style="list-style-type: none"> <li>• <code>sshUser</code></li> <li>• <code>sshPort</code></li> <li>• <code>keyPairName</code></li> <li>• <code>securityGroupId</code></li> <li>• <code>subnetId</code></li> <li>• <code>instanceSize</code></li> <li>• <code>subnetName</code></li> <li>• <code>networkTags</code></li> <li>• <code>zone</code></li> <li>• <code>assignPublicIp</code></li> <li>• <code>publicSshKey</code></li> <li>• <code>subscriptionId</code></li> <li>• <code>resourceGroupName</code></li> <li>• <code>securityGroupName</code></li> <li>• <code>vnetName</code></li> <li>• <code>adminUsername</code></li> <li>• <code>adminPassword</code></li> <li>• <code>cpu</code></li> <li>• <code>memory</code></li> <li>• <code>storageClass</code></li> <li>• <code>labels</code></li> <li>• <code>namespace</code></li> </ul>	
permissions	Object	<p>Set permissions to restrict node pool use.</p> <p>You can set the following properties:</p> <ul style="list-style-type: none"> <li>• <code>allowAllPipelineSources</code>: Add all the existing and future Pipeline Sources including to this permission target.</li> <li>• <code>includePatterns</code>: Specify an include pattern.</li> <li>• <code>excludePatterns</code>: Specify an exclude pattern.</li> </ul>	Optional
allowAllPipelineSources	Boolean	<p>When set to true, pipelines loaded from any pipeline source can use this node pool.</p> <p>Set to false to restrict node pool use to a set of pipeline sources.</p>	Optional

Parameter	Data Type	Description	Required/Optional
initPropertyBag	Object	<p>Contains configuration to be applied during node initialization.</p> <p>The following property can be set:</p> <p><b>insecureDockerRegistries</b>: List of insecure docker registries to be allowed on the node.</p>	Optional

**Response:**

```
{
  "providerMetadataPropertyBag": null,
  "numberOfNodes": 1,
  "id": 6,
  "projectId": 1,
  "name": "node_pool",
  "Environments": ["DEV", "PROD"],
  "isOnDemand": false,
  "isCacheEnabled": null,
  "architecture": "x86_64",
  "operatingSystem": "Ubuntu_18.04",
  "cacheSettingsPropertyBag": null,
  "isNatEnabled": false,
  "updatedAt": "2019-05-31T23:22:26.681Z",
  "createdAt": "2019-05-31T23:22:26.681Z",
  "queueName": null,
  "maxDiskUsagePercentage": 90,
  "timeoutMS": null,
  "permissions": {
    "pipelineSources": {
      "allowAllPipelineSources": true
    }
  },
  "initPropertyBag": {
    "insecureDockerRegistries": [
      "0.0.0.0"
    ]
  }
}
```

### 6.9.3 | Delete a Node Pool

**Description:** Deletes a node pool based on node pool Id.

**Security:** Requires a valid user

**Usage:** `DELETE api/v1/nodePools/{nodePoolId}`

**Produces:** application/json

**URL parameters:**

Parameter	Description
nodePoolId	Id of the node pool to be deleted.

**Parameters:** Ignored

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**Request Parameters:** Ignored

**Sample Response:**

**DELETE api/v1/nodePools/2**

```
{  
  "id": 2  
}
```

**Response Codes:**

200: Success

400: If the node pool id is not an integer

404: If the node pool is not found

## 6.9.4 | Get Node Pools

**Description:** Gets a collection of node pools entities.

**Security:** Requires a valid user

**Usage:** GET api/v1/nodePools

**Produces:** application/json

**Parameters:**

Parameter	Data Type	Description
nodePoolIds	Integer	Comma-separated list of numeric nodePool ids
projectIds	Integer	Comma-separated list of numeric project ids
projectIntegrationIds	Integer	Comma-separated list of numeric projectIntegration ids
names	String	Comma-separated list of the names of the node pools

**Sample Response:**

An array of node pools that satisfy all the supplied query parameters. Returns all node pools if no query parameters are supplied.

```
[  
  {  
    "providerMetadataPropertyBag": {  
      "instanceSize": "n1-standard-1",  
      "subnetName": "jfrog-usw1-dynamicnodes",  
      "networkTags": [  
        "behind-nat",  
        "jenkins",  
        "pipelines",  
        "xray-app",  
        "xray-apps"  
      ],  
      "zone": "us-west1-b"  
    },  
    "cacheSettingsPropertyBag": null,  
    "initPropertyBag": {  
    }
```

# JFrog REST APIs Displayed in the header

```
"insecureDockerRegistries": [],
},
"permissions": {
    "allowAllPipelineSources": true
},
"id": 2,
"projectId": 1,
"environments": null,
"name": "u18-vms",
"queueName": null,
"numberOfNodes": 3,
"isOnDemand": true,
"architecture": "x86_64",
"operatingSystem": "Ubuntu_18.04",
"maxDiskUsagePercentage": 90,
"diskSizeinGB": null,
"timeoutMS": null,
"isNatEnabled": null,
"isCacheEnabled": false,
"projectIntegrationId": 11,
"buildPlaneImageId": 17,
"nodeIdleIntervalInMins": 20,
"createdAt": "2021-01-25T02:38:56.322Z",
"updatedAt": "2021-01-25T02:38:56.322Z"
},
{
    "providerMetadataPropertyBag": null,
    "cacheSettingsPropertyBag": null,
    "initPropertyBag": {
        "insecureDockerRegistries": []
    },
    "permissions": {
        "allowAllPipelineSources": true
    },
    "id": 1,
    "projectId": 1,
    "environments": null,
    "name": "win_2019",
    "queueName": null,
    "numberOfNodes": null,
    "isOnDemand": false,
    "architecture": "x86_64",
    "operatingSystem": "WindowsServer_2019",
    "maxDiskUsagePercentage": 90,
    "diskSizeinGB": null,
    "timeoutMS": null,
    "isNatEnabled": null,
    "isCacheEnabled": null,
    "projectIntegrationId": null,
    "buildPlaneImageId": null,
    "nodeIdleIntervalInMins": null,
    "createdAt": "2021-01-17T14:05:46.289Z",
    "updatedAt": "2021-02-03T18:13:05.672Z"
},
{
    "providerMetadataPropertyBag": {
        "keyPairName": "pipelines_testing",
        "securityGroupId": "sg-0a21d376a34db8ae5",
        "subnetId": "subnet-0e4461a8e780478a6",
        "instanceSize": "c4.large"
    },
    "cacheSettingsPropertyBag": null,
    "initPropertyBag": {
        "insecureDockerRegistries": []
    },
    "permissions": {
        "allowAllPipelineSources": true
    },
    "id": 5,
    "projectId": 1,
```

```
"environments": null,  
"name": "awswin_2019",  
"queueName": null,  
"numberOfNodes": 3,  
"isOnDemand": true,  
"architecture": "x86_64",  
"operatingSystem": "WindowsServer_2019",  
"maxDiskUsagePercentage": 90,  
"diskSizeInGB": null,  
"timeoutMS": null,  
"isNatEnabled": null,  
"isCacheEnabled": false,  
"projectIntegrationId": 29,  
"buildPlaneImageId": 7,  
"nodeIdleIntervalInMins": 20,  
"createdAt": "2021-03-19T18:46:42.051Z",  
"updatedAt": "2021-03-19T19:12:34.449Z"  
}  
]  
]
```

**Response Codes:**

200: Success

## 6.10 | MASTER INTEGRATIONS

### 6.10.1 | Get all Integrations

**Description:** Gets a list of integrations.

**Security:** Requires a valid user

**Usage:** GET api/v1/masterIntegrations

**Produces:** application/json

**Query Parameters:** None

**Sample Response:**

```
[  
  {  
    "id": 94,  
    "name": "airBrakeKey",  
    "type": "generic",  
    "typeCode": 5012,  
    "displayName": "Airbrake",  
    "isEnabled": true,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2018-09-11T00:00:00.000Z",  
    "updatedAt": "2018-09-11T00:00:00.000Z"  
  },  
  {  
    "id": 46,  
    "name": "amazonKeys",  
    "type": "generic",  
    "typeCode": 5012,  
    "displayName": "AWS",  
    "isEnabled": true,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2016-06-01T00:00:00.000Z",  
    "updatedAt": "2016-06-01T00:00:00.000Z"  
  },  
  {  
    "id": 98,  
    "name": "artifactory",  
    "type": "generic",  
    "typeCode": 5012,  
    "displayName": "Artifactory",  
    "isEnabled": true,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2016-06-01T00:00:00.000Z",  
    "updatedAt": "2016-06-01T00:00:00.000Z"  
  }]
```

# JFrog REST APIs Displayed in the header

```
"type": "generic",
"typeCode": 5012,
"displayName": "Artifactory",
"isEnabled": true,
"createdBy": "54188262bc4d591ba438d62a",
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2017-11-03T00:00:00.000Z",
"updatedAt": "2017-11-03T00:00:00.000Z"
},
{
  "id": 87,
  "name": "azureKeys",
  "type": "generic",
  "typeCode": 5012,
  "displayName": "Azure Keys",
  "isEnabled": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2017-11-15T00:00:00.000Z",
  "updatedAt": "2017-11-15T00:00:00.000Z"
},
{
  "id": 16,
  "name": "bitbucket",
  "type": "scm",
  "typeCode": 5000,
  "displayName": "Bitbucket",
  "isEnabled": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 90,
  "name": "bitbucketServerBasic",
  "type": "scm",
  "typeCode": 5000,
  "displayName": "Bitbucket Server",
  "isEnabled": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 100,
  "name": "distribution",
  "type": "generic",
  "typeCode": 5012,
  "displayName": "Distribution",
  "isEnabled": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2017-11-03T00:00:00.000Z",
  "updatedAt": "2017-11-03T00:00:00.000Z"
},
{
  "id": 67,
  "name": "DOC",
  "type": "generic",
  "typeCode": 5012,
  "displayName": "Digital Ocean",
  "isEnabled": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{

```

# JFrog REST APIs Displayed in the header

```
"id": 77,
"name": "dockerRegistryLogin",
"type": "generic",
"typeCode": 5012,
"displayName": "Docker Registry",
"isEnabled": true,
"createdBy": "54188262bc4d591ba438d62a",
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2017-10-13T00:00:00.000Z",
"updatedAt": "2017-10-13T00:00:00.000Z"
},
{
"id": 96,
"name": "fileServer",
"type": "generic",
"typeCode": 5012,
"displayName": "File Server",
"isEnabled": true,
"createdBy": "54188262bc4d591ba438d62a",
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2019-04-04T00:00:00.000Z",
"updatedAt": "2010-04-04T00:00:00.000Z"
},
{
"id": 76,
"name": "gcloudKey",
"type": "generic",
"typeCode": 5012,
"displayName": "Google Cloud",
"isEnabled": true,
"createdBy": "54188262bc4d591ba438d62a",
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2017-10-04T00:00:00.000Z",
"updatedAt": "2017-10-04T00:00:00.000Z"
},
{
"id": 99,
"name": "generic",
"type": "generic",
"typeCode": 5012,
"displayName": "Generic Integration",
"isEnabled": true,
"createdBy": "54188262bc4d591ba438d62a",
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2019-05-28T00:00:00.000Z",
"updatedAt": "2019-05-28T00:00:00.000Z"
},
{
"id": 20,
"name": "github",
"type": "scm",
"typeCode": 5000,
"displayName": "GitHub",
"isEnabled": true,
"createdBy": "54188262bc4d591ba438d62a",
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2016-06-01T00:00:00.000Z",
"updatedAt": "2016-06-01T00:00:00.000Z"
},
{
"id": 15,
"name": "githubEnterprise",
"type": "scm",
"typeCode": 5000,
"displayName": "Github Enterprise",
"isEnabled": true,
"createdBy": "54188262bc4d591ba438d62a",
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2016-06-01T00:00:00.000Z",
"updatedAt": "2016-06-01T00:00:00.000Z"
```

# JFrog REST APIs

## Displayed in the header

```
        },
        {
            "id": 21,
            "name": "gitlab",
            "type": "scm",
            "typeCode": 5000,
            "displayName": "GitLab",
            "isEnabled": true,
            "createdBy": "54188262bc4d591ba438d62a",
            "updatedBy": "54188262bc4d591ba438d62a",
            "createdAt": "2016-06-01T00:00:00.000Z",
            "updatedAt": "2016-06-01T00:00:00.000Z"
        },
        {
            "id": 97,
            "name": "incomingWebhook",
            "type": "generic",
            "typeCode": 5012,
            "displayName": "Incoming Webhook",
            "isEnabled": true,
            "createdBy": "54188262bc4d591ba438d62a",
            "updatedBy": "54188262bc4d591ba438d62a",
            "createdAt": "2017-11-03T00:00:00.000Z",
            "updatedAt": "2017-11-03T00:00:00.000Z"
        },
        {
            "id": 101,
            "name": "jenkins",
            "type": "generic",
            "typeCode": 5012,
            "displayName": "Jenkins",
            "isEnabled": false,
            "createdBy": "54188262bc4d591ba438d62a",
            "updatedBy": "54188262bc4d591ba438d62a",
            "createdAt": "2019-07-31T00:00:00.000Z",
            "updatedAt": "2019-07-31T00:00:00.000Z"
        },
        {
            "id": 102,
            "name": "jenkinsCreds",
            "type": "generic",
            "typeCode": 5012,
            "displayName": "Jenkins Server",
            "isEnabled": true,
            "createdBy": "54188262bc4d591ba438d62a",
            "updatedBy": "54188262bc4d591ba438d62a",
            "createdAt": "2019-07-31T00:00:00.000Z",
            "updatedAt": "2019-07-31T00:00:00.000Z"
        },
        {
            "id": 88,
            "name": "jira",
            "type": "generic",
            "typeCode": 5012,
            "displayName": "Jira",
            "isEnabled": true,
            "createdBy": "54188262bc4d591ba438d62a",
            "updatedBy": "54188262bc4d591ba438d62a",
            "createdAt": "2018-03-21T00:00:00.000Z",
            "updatedAt": "2017-03-21T00:00:00.000Z"
        },
        {
            "id": 86,
            "name": "kubernetesConfig",
            "type": "generic",
            "typeCode": 5012,
            "displayName": "Kubernetes",
            "isEnabled": true,
            "createdBy": "54188262bc4d591ba438d62a",
            "updatedBy": "54188262bc4d591ba438d62a"
        }
    ]
}
```

# JFrog REST APIs Displayed in the header

```
"createdAt": "2017-11-03T00:00:00.000Z",
"updatedAt": "2017-11-03T00:00:00.000Z"
},
{
  "id": 95,
  "name": "newRelicKey",
  "type": "generic",
  "typeCode": 5012,
  "displayName": "NewRelic",
  "isEnabled": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2018-09-11T00:00:00.000Z",
  "updatedAt": "2018-09-11T00:00:00.000Z"
},
{
  "id": 83,
  "name": "outgoingWebhook",
  "type": "generic",
  "typeCode": 5012,
  "displayName": "Outgoing Webhook",
  "isEnabled": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2017-11-03T00:00:00.000Z",
  "updatedAt": "2017-11-03T00:00:00.000Z"
},
{
  "id": 103,
  "name": "pagerDutyKey",
  "type": "generic",
  "typeCode": 5012,
  "displayName": "PagerDuty Events",
  "isEnabled": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2020-12-03T00:00:00.000Z",
  "updatedAt": "2020-12-03T00:00:00.000Z"
},
{
  "id": 72,
  "name": "pemKey",
  "type": "generic",
  "typeCode": 5012,
  "displayName": "PEM Key",
  "isEnabled": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 78,
  "name": "slackKey",
  "type": "generic",
  "typeCode": 5012,
  "displayName": "Slack",
  "isEnabled": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2017-10-24T00:00:00.000Z",
  "updatedAt": "2017-10-24T00:00:00.000Z"
},
{
  "id": 50,
  "name": "smtpCreds",
  "type": "generic",
  "typeCode": 5012,
  "displayName": "SMTP Credentials",
  "isEnabled": true,
```

## JFrog REST APIs Displayed in the header

```
"createdBy": "54188262bc4d591ba438d62a",
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2016-06-01T00:00:00.000Z",
"updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 71,
  "name": "sshKey",
  "type": "generic",
  "typeCode": 5012,
  "displayName": "SSH Key",
  "isEnabled": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
}
]
```

### Response Codes:

200: Success

## 6.11 | MASTER INTEGRATION FIELDS

### 6.11.1 | Get all Master Integration Fields

**Description:** Gets a list of all integration types used to create master integrations.

**Security:** Requires a valid user

**Usage:** GET api/v1/masterIntegrationFields

**Produces:** application/json

**Query Parameters:** None

Parameter	Type	Description	Required/Optional
limit	Integer	A limit on the number of masterIntegrationFields returned.	Optional
skip	Integer	A cursor for use in pagination. `skip` defines the number of masterIntegrationFields skipped.	Optional
masterIntegrationIds	String	A filter on the list based on the `masterIntegrationId` that the masterIntegrationField belongs to. Expects a comma separated list of masterIntegrationIds. For more information, see Get Integrations.	Optional

### Sample Response:

```
[
  {
    "id": 150,
    "masterIntegrationId": 46,
    "name": "accessKeyId",
    "dataType": "string",
    "isRequired": true,
    "isSecure": false,
    "createdBy": "54188262bc4d591ba438d62a",
    "updatedBy": "54188262bc4d591ba438d62a",
```

# JFrog REST APIs Displayed in the header

```
"createdAt": "2016-06-01T00:00:00.000Z",
"updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 331,
  "masterIntegrationId": 98,
  "name": "apikey",
  "dataType": "string",
  "isRequired": true,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 337,
  "masterIntegrationId": 100,
  "name": "apikey",
  "dataType": "string",
  "isRequired": true,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 271,
  "masterIntegrationId": 87,
  "name": "appId",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2017-11-15T00:00:00.000Z",
  "updatedAt": "2017-11-15T00:00:00.000Z"
},
{
  "id": 344,
  "masterIntegrationId": 97,
  "name": "authorization",
  "dataType": "string",
  "isRequired": false,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 260,
  "masterIntegrationId": 83,
  "name": "authorization",
  "dataType": "string",
  "isRequired": false,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2017-11-03T00:00:00.000Z",
  "updatedAt": "2017-11-03T00:00:00.000Z"
},
{
  "id": 347,
  "masterIntegrationId": 83,
  "name": "authType",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
```

# JFrog REST APIs Displayed in the header

```
"createdBy": "54188262bc4d591ba438d62a",
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2017-11-03T00:00:00.000Z",
"updatedAt": "2017-11-03T00:00:00.000Z"
},
{
  "id": 343,
  "masterIntegrationId": 97,
  "name": "authType",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 334,
  "masterIntegrationId": 98,
  "name": "distributionUrl",
  "dataType": "string",
  "isRequired": false,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 333,
  "masterIntegrationId": 99,
  "name": "envs",
  "dataType": "object",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2019-05-28T00:00:00.000Z",
  "updatedAt": "2019-05-28T00:00:00.000Z"
},
{
  "id": 342,
  "masterIntegrationId": 101,
  "name": "hookPassword",
  "dataType": "string",
  "isRequired": true,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2019-08-20T00:00:00.000Z",
  "updatedAt": "2019-08-20T00:00:00.000Z"
},
{
  "id": 341,
  "masterIntegrationId": 101,
  "name": "hookUsername",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2019-08-20T00:00:00.000Z",
  "updatedAt": "2019-08-20T00:00:00.000Z"
},
{
  "id": 165,
  "masterIntegrationId": 50,
  "name": "host",
  "dataType": "string",
```

# JFrog REST APIs Displayed in the header

```
"isRequired": true,  
"isSecure": false,  
"createdBy": "54188262bc4d591ba438d62a",  
"updatedBy": "54188262bc4d591ba438d62a",  
"createdAt": "2016-06-01T00:00:00.000Z",  
"updatedAt": "2016-06-01T00:00:00.000Z"  
,  
{  
    "id": 352,  
    "masterIntegrationId": 102,  
    "name": "jenkinsToken",  
    "dataType": "string",  
    "isRequired": true,  
    "isSecure": true,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2019-08-20T00:00:00.000Z",  
    "updatedAt": "2019-08-20T00:00:00.000Z"  
,  
{  
    "id": 351,  
    "masterIntegrationId": 102,  
    "name": "jenkinsUsername",  
    "dataType": "string",  
    "isRequired": true,  
    "isSecure": false,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2019-08-20T00:00:00.000Z",  
    "updatedAt": "2019-08-20T00:00:00.000Z"  
,  
{  
    "id": 240,  
    "masterIntegrationId": 76,  
    "name": "jsonKey",  
    "dataType": "string",  
    "isRequired": true,  
    "isSecure": true,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2016-06-01T00:00:00.000Z",  
    "updatedAt": "2016-06-01T00:00:00.000Z"  
,  
{  
    "id": 230,  
    "masterIntegrationId": 72,  
    "name": "key",  
    "dataType": "string",  
    "isRequired": true,  
    "isSecure": true,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2016-06-01T00:00:00.000Z",  
    "updatedAt": "2016-06-01T00:00:00.000Z"  
,  
{  
    "id": 270,  
    "masterIntegrationId": 86,  
    "name": "kubeconfig",  
    "dataType": "string",  
    "isRequired": true,  
    "isSecure": true,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2017-11-06T00:00:00.000Z",  
    "updatedAt": "2017-11-06T00:00:00.000Z"  
,  
{  
    "id": 243,  
    "masterIntegrationId": 77,
```

# JFrog REST APIs Displayed in the header

```
"name": "password",
"dataType": "string",
"isRequired": true,
"isSecure": true,
"createdBy": "54188262bc4d591ba438d62a",
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2017-10-14T00:00:00.000Z",
"updatedAt": "2017-10-14T00:00:00.000Z"
},
{
  "id": 286,
  "masterIntegrationId": 90,
  "name": "password",
  "dataType": "string",
  "isRequired": true,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 164,
  "masterIntegrationId": 50,
  "name": "password",
  "dataType": "string",
  "isRequired": false,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 346,
  "masterIntegrationId": 83,
  "name": "password",
  "dataType": "string",
  "isRequired": false,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2017-11-03T00:00:00.000Z",
  "updatedAt": "2017-11-03T00:00:00.000Z"
},
{
  "id": 272,
  "masterIntegrationId": 87,
  "name": "password",
  "dataType": "string",
  "isRequired": true,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2017-11-15T00:00:00.000Z",
  "updatedAt": "2017-11-15T00:00:00.000Z"
},
{
  "id": 317,
  "masterIntegrationId": 96,
  "name": "password",
  "dataType": "string",
  "isRequired": false,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2019-04-04T00:00:00.000Z",
  "updatedAt": "2019-04-04T00:00:00.000Z"
},
{
```

# JFrog REST APIs Displayed in the header

```
"id": 319,
"masterIntegrationId": 97,
"name": "password",
"dataType": "string",
"isRequired": false,
"isSecure": true,
"createdBy": "54188262bc4d591ba438d62a",
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2016-06-01T00:00:00.000Z",
"updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 166,
  "masterIntegrationId": 50,
  "name": "port",
  "dataType": "string",
  "isRequired": false,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 229,
  "masterIntegrationId": 71,
  "name": "privateKey",
  "dataType": "string",
  "isRequired": true,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 320,
  "masterIntegrationId": 96,
  "name": "protocol",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2019-04-04T00:00:00.000Z",
  "updatedAt": "2019-04-04T00:00:00.000Z"
},
{
  "id": 168,
  "masterIntegrationId": 50,
  "name": "proxy",
  "dataType": "string",
  "isRequired": false,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 228,
  "masterIntegrationId": 71,
  "name": "publicKey",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
```

# JFrog REST APIs Displayed in the header

```
},  
{  
    "id": 348,  
    "masterIntegrationId": 83,  
    "name": "secret",  
    "dataType": "string",  
    "isRequired": false,  
    "isSecure": false,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2017-11-03T00:00:00.000Z",  
    "updatedAt": "2017-11-03T00:00:00.000Z"  
},  
{  
    "id": 151,  
    "masterIntegrationId": 46,  
    "name": "secretAccessKey",  
    "dataType": "string",  
    "isRequired": true,  
    "isSecure": true,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2016-06-01T00:00:00.000Z",  
    "updatedAt": "2016-06-01T00:00:00.000Z"  
},  
{  
    "id": 167,  
    "masterIntegrationId": 50,  
    "name": "secure",  
    "dataType": "string",  
    "isRequired": false,  
    "isSecure": false,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2016-06-01T00:00:00.000Z",  
    "updatedAt": "2016-06-01T00:00:00.000Z"  
},  
{  
    "id": 169,  
    "masterIntegrationId": 50,  
    "name": "senderEmail",  
    "dataType": "string",  
    "isRequired": false,  
    "isSecure": false,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2016-06-01T00:00:00.000Z",  
    "updatedAt": "2016-06-01T00:00:00.000Z"  
},  
{  
    "id": 353,  
    "masterIntegrationId": 100,  
    "name": "signingKeyPassphrase",  
    "dataType": "string",  
    "isRequired": false,  
    "isSecure": true,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2020-09-01T00:00:00.000Z",  
    "updatedAt": "2020-09-01T00:00:00.000Z"  
},  
{  
    "id": 273,  
    "masterIntegrationId": 87,  
    "name": "tenant",  
    "dataType": "string",  
    "isRequired": true,  
    "isSecure": false,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2017-11-03T00:00:00.000Z",  
    "updatedAt": "2017-11-03T00:00:00.000Z"  
}
```

# JFrog REST APIs Displayed in the header

```
"createdAt": "2017-11-15T00:00:00.000Z",
"updatedAt": "2017-11-15T00:00:00.000Z"
},
{
  "id": 312,
  "masterIntegrationId": 94,
  "name": "token",
  "dataType": "string",
  "isRequired": true,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-09-11T00:00:00.000Z",
  "updatedAt": "2016-09-11T00:00:00.000Z"
},
{
  "id": 40,
  "masterIntegrationId": 15,
  "name": "token",
  "dataType": "string",
  "isRequired": true,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 314,
  "masterIntegrationId": 95,
  "name": "token",
  "dataType": "string",
  "isRequired": true,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2018-09-11T00:00:00.000Z",
  "updatedAt": "2018-09-11T00:00:00.000Z"
},
{
  "id": 53,
  "masterIntegrationId": 21,
  "name": "token",
  "dataType": "string",
  "isRequired": true,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 355,
  "masterIntegrationId": 103,
  "name": "token",
  "dataType": "string",
  "isRequired": true,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2017-10-24T00:00:00.000Z",
  "updatedAt": "2017-10-24T00:00:00.000Z"
},
{
  "id": 350,
  "masterIntegrationId": 102,
  "name": "token",
  "dataType": "string",
  "isRequired": true,
  "isSecure": true,
```

# JFrog REST APIs Displayed in the header

```
"createdBy": "54188262bc4d591ba438d62a",
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2019-08-20T00:00:00.000Z",
"updatedAt": "2019-08-20T00:00:00.000Z"
},
{
  "id": 51,
  "masterIntegrationId": 20,
  "name": "token",
  "dataType": "string",
  "isRequired": true,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 214,
  "masterIntegrationId": 67,
  "name": "token",
  "dataType": "string",
  "isRequired": true,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 41,
  "masterIntegrationId": 16,
  "name": "token",
  "dataType": "string",
  "isRequired": true,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 276,
  "masterIntegrationId": 88,
  "name": "token",
  "dataType": "string",
  "isRequired": true,
  "isSecure": true,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2018-03-21T00:00:00.000Z",
  "updatedAt": "2018-03-21T00:00:00.000Z"
},
{
  "id": 42,
  "masterIntegrationId": 16,
  "name": "url",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 39,
  "masterIntegrationId": 15,
  "name": "url",
  "dataType": "string",
```

# JFrog REST APIs Displayed in the header

```
"isRequired": true,  
"isSecure": false,  
"createdBy": "54188262bc4d591ba438d62a",  
"updatedBy": "54188262bc4d591ba438d62a",  
"createdAt": "2016-06-01T00:00:00.000Z",  
"updatedAt": "2016-06-01T00:00:00.000Z"  
,  
{  
    "id": 245,  
    "masterIntegrationId": 78,  
    "name": "url",  
    "dataType": "string",  
    "isRequired": true,  
    "isSecure": false,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2017-10-24T00:00:00.000Z",  
    "updatedAt": "2017-10-24T00:00:00.000Z"  
,  
{  
    "id": 274,  
    "masterIntegrationId": 88,  
    "name": "url",  
    "dataType": "string",  
    "isRequired": true,  
    "isSecure": false,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2018-03-21T00:00:00.000Z",  
    "updatedAt": "2018-03-21T00:00:00.000Z"  
,  
{  
    "id": 311,  
    "masterIntegrationId": 94,  
    "name": "url",  
    "dataType": "string",  
    "isRequired": true,  
    "isSecure": false,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2016-09-11T00:00:00.000Z",  
    "updatedAt": "2016-09-11T00:00:00.000Z"  
,  
{  
    "id": 313,  
    "masterIntegrationId": 95,  
    "name": "url",  
    "dataType": "string",  
    "isRequired": true,  
    "isSecure": false,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2018-09-11T00:00:00.000Z",  
    "updatedAt": "2018-09-11T00:00:00.000Z"  
,  
{  
    "id": 315,  
    "masterIntegrationId": 96,  
    "name": "url",  
    "dataType": "string",  
    "isRequired": true,  
    "isSecure": false,  
    "createdBy": "54188262bc4d591ba438d62a",  
    "updatedBy": "54188262bc4d591ba438d62a",  
    "createdAt": "2019-04-04T00:00:00.000Z",  
    "updatedAt": "2019-04-04T00:00:00.000Z"  
,  
{  
    "id": 287,  
    "masterIntegrationId": 90,
```

# JFrog REST APIs Displayed in the header

```
"name": "url",
"dataType": "string",
"isRequired": true,
"isSecure": false,
"createdBy": "54188262bc4d591ba438d62a",
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2016-06-01T00:00:00.000Z",
"updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 330,
  "masterIntegrationId": 98,
  "name": "url",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 52,
  "masterIntegrationId": 21,
  "name": "url",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 335,
  "masterIntegrationId": 100,
  "name": "url",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 50,
  "masterIntegrationId": 20,
  "name": "url",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 338,
  "masterIntegrationId": 101,
  "name": "url",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2019-07-31T00:00:00.000Z",
  "updatedAt": "2019-07-31T00:00:00.000Z"
},
```

# JFrog REST APIs Displayed in the header

```
"id": 241,
"masterIntegrationId": 77,
"name": "url",
"dataType": "string",
"isRequired": false,
"isSecure": false,
"createdBy": "54188262bc4d591ba438d62a",
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2017-10-13T00:00:00.000Z",
"updatedAt": "2017-10-13T00:00:00.000Z"
},
{
  "id": 349,
  "masterIntegrationId": 102,
  "name": "url",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2019-07-31T00:00:00.000Z",
  "updatedAt": "2019-07-31T00:00:00.000Z"
},
{
  "id": 336,
  "masterIntegrationId": 100,
  "name": "user",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 332,
  "masterIntegrationId": 98,
  "name": "user",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 275,
  "masterIntegrationId": 88,
  "name": "username",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2018-03-21T00:00:00.000Z",
  "updatedAt": "2018-03-21T00:00:00.000Z"
},
{
  "id": 345,
  "masterIntegrationId": 83,
  "name": "username",
  "dataType": "string",
  "isRequired": false,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2017-11-03T00:00:00.000Z",
  "updatedAt": "2017-11-03T00:00:00.000Z"
```

## JFrog REST APIs Displayed in the header

```
},
{
  "id": 285,
  "masterIntegrationId": 90,
  "name": "username",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 43,
  "masterIntegrationId": 16,
  "name": "username",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 318,
  "masterIntegrationId": 97,
  "name": "username",
  "dataType": "string",
  "isRequired": false,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
},
{
  "id": 316,
  "masterIntegrationId": 96,
  "name": "username",
  "dataType": "string",
  "isRequired": false,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2019-04-04T00:00:00.000Z",
  "updatedAt": "2019-04-04T00:00:00.000Z"
},
{
  "id": 242,
  "masterIntegrationId": 77,
  "name": "username",
  "dataType": "string",
  "isRequired": true,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2017-10-13T00:00:00.000Z",
  "updatedAt": "2017-10-13T00:00:00.000Z"
},
{
  "id": 163,
  "masterIntegrationId": 50,
  "name": "username",
  "dataType": "string",
  "isRequired": false,
  "isSecure": false,
  "createdBy": "54188262bc4d591ba438d62a",
  "updatedBy": "54188262bc4d591ba438d62a",
  "createdAt": "2016-06-01T00:00:00.000Z",
  "updatedAt": "2016-06-01T00:00:00.000Z"
}
```

## JFrog REST APIs Displayed in the header

```
"createdAt": "2016-06-01T00:00:00.000Z",
"updatedAt": "2016-06-01T00:00:00.000Z"
},
{
"id": 259,
"masterIntegrationId": 83,
"name": "webhookURL",
"dataType": "string",
"isRequired": true,
"isSecure": false,
"createdBy": "54188262bc4d591ba438d62a",
"updatedBy": "54188262bc4d591ba438d62a",
"createdAt": "2017-11-03T00:00:00.000Z",
"updatedAt": "2017-11-03T00:00:00.000Z"
}
]
```

### Response Codes:

200: Success

## 6.12 | PROJECT INTEGRATIONS

### 6.12.1 | Add a Project Integration

**Description:** Adds a project integration..

**Security:** Requires a valid user

**Usage:** POST api/v1/projectIntegrations

**Produces:** application/json

#### Request Parameters:

Parameter	Type	Description	Required/Optional
projectId	Integer	Id of the Project	Required
name	String	Name for the new integration.	Required
masterIntegrationId	Integer	The Id of the master integration. For more information, see <a href="#">Get all Integrations</a> .	Required
masterIntegrationName	String	The name of the master integration. For more information, see <a href="#">Get all Integrations</a> .	Required

# JFrog REST APIs Displayed in the header

Parameter	Type	Description	Required/Optional
formJSONValues	Array	An array of objects with the values for the integration.	Required
project	Object	An object containing a project name as an alternative to projectId.  The following properties can be set: <ul style="list-style-type: none"><li>• <b>name</b></li><li>• <b>key</b></li></ul>	Optional
propertyBag	Object	Object consisting of integration properties.	Optional
permissions	Object	An object containing allowAllPipelineSources property.  Set allowAllPipelineSources as true to allow all pipeline sources to use the integration.  <b>Example</b> <pre>"permissions": {     "pipelineSources": {         "allowAllPipelineSources": true     } }</pre>	Optional
environments	Array	An array of the environments to which the integration is to be available.	Optional

## JFrog REST APIs Displayed in the header

Parameter	Type	Description	Required/Optional
isInternal	Boolean	<ul style="list-style-type: none"><li>Set this as <code>false</code> to create a Pipelines integration. These integrations can be used in pipeline YAML definitions.</li><li>Set this as <code>true</code> to create an Admin integration. These integrations can be used while creating dynamic node pools, and adding extension and template sources. These integrations cannot be used in pipeline YAML definitions.</li></ul> <p>The types of integrations that can be added/managed here are:</p>	Optional

# JFrog REST APIs Displayed in the header

Parameter	Type	Description	Required/Optional
		<ul style="list-style-type: none"><li>o <b>Cloud service:</b> For creating dynamic nodes in a dynamic node pool. For example, AWS Keys Integration , Google Cloud Integration, Azure Keys Integration , or others.</li><li>Dynamic nodes are build nodes that are spun up and down on-demand by Pipelines from a cloud service. They are managed through dynamic node pools.</li><li>o <b>Kubernetes Integration:</b> For creating dynamic nodes in a dynamic</li></ul>	

# JFrog REST APIs Displayed in the header

Parameter	Type	Description	Required/Optional
		node pool.  o <b>Source control:</b> For Pipelines extensibility source repositories. For example, GitHub Integration , Bitbucket Integration or others.	

## Sample Request:

### GitHub Integration

```
curl -L -X POST 'https://pipe-master.jfrog-pipelines.com/pipelines/api/v1/projectIntegrations' \
-H 'Authorization: Bearer <token>' \
-H 'Content-Type: application/json' \
--data-raw '{
  "name": "myGithub",
  "projectId": 1,
  "masterIntegrationId": 20,
  "masterIntegrationName": "github",
  "formJSONValues": [
    {
      "label": "token",
      "value": "*****"
    },
    {
      "label": "url",
      "value": "https://api.github.com"
    }
  ],
  "permissions": {
    "pipelineSources": {
      "allowAllPipelineSources": true
    }
  }
}'
```

## Sample Response:

```
{
  "propertyBag": {},
  "permissions": {},
  "isInternal": false,
  "id": 39,
  "name": "myGithub",
  "projectId": 1,
  "masterIntegrationName": "github",
  "masterIntegrationType": "scm",
  "masterIntegrationId": 20,
  "createdByUserName": "admin",
  "updatedByUserName": "admin",
  "createdBy": 3,
  "updatedBy": 3,
```

## JFrog REST APIs Displayed in the header

```
"providerId": 2,  
"updatedAt": "2021-04-30T09:50:32.585Z",  
"createdAt": "2021-04-30T09:50:32.585Z",  
"environments": null,  
"formJSONValues": [  
    {  
        "label": "token",  
        "value": "*****"  
    },  
    {  
        "label": "url",  
        "value": "https://api.github.com"  
    }  
]
```

### Response Codes:

200: Success

## 6.12.2 | Update a Project Integration

**Description:** Updates a Project integration.

**Security:** Requires a valid user

**Usage:** PUT api/v1/projectIntegrations/{projectIntegrationId}

**Produces:** application/json

**URL Parameters:**

Parameter	Type	Description	Required/Optional
projectIntegrationId	Integer	Id of the Project integration.	Required

**Request Parameters:**

Parameter	Type	Description	Required/Optional
name	String	Name of the integration.	Mandatory
formJSONValues	Array	An array of objects with the values of the integration  <b>Note</b>  The value object does not allow empty values when isRecreated parameter is set to true.	Optional
propertyBag	Object	Object consisting of integration properties.	Optional
permissions	Object	An object containing allPipelineSourcesAllowed.	Optional

# JFrog REST APIs

## Displayed in the header

Parameter	Type	Description	Required/Optional
environments	Array	An array of environments to which the integration is to be available.	Optional

### Sample Request

```
curl -L -X PUT 'https://pipe-master.jfrog-pipelines.com/pipelines/api/v1/projectIntegrations/4' \
-H 'Authorization: Bearer <token>' \
-H 'Content-Type: application/json' \
--data-raw '{
  "name": "myGithub",
  "formJSONValues": [
    {
      "label": "envs",
      "value": {
        "val2": {
          "value": "sddsf sdf",
          "isSecure": false,
          "isRecreated": true
        },
        "new": {
          "value": "dfs",
          "isSecure": false,
          "isRecreated": false
        },
        "vsl3": {
          "value": "dfs",
          "isSecure": false,
          "isRecreated": false
        }
      }
    }
  ],
  "permissions": {
    "pipelineSources": {
      "allPipelineSourcesAllowed": true
    }
  }
}'
```

### Sample Response:

```
{
  "propertyBag": {},
  "id": 4,
  "name": "myGithub",
  "projectId": 1,
  "masterIntegrationId": 20,
  "masterIntegrationType": "scm",
  "masterIntegrationName": "github",
  "providerId": 34,
  "createdByUserName": "admin",
  "updatedByUserName": "admin",
  "createdBy": 3,
  "updatedBy": 3,
  "createdAt": "2019-09-25T20:32:03.753Z",
  "updatedAt": "2019-09-25T20:32:03.753Z",
  "formJSONValues": [
    {
      "label": "envs",
      "value": {
        "val2": {
          "value": "sddsf sdf",
          "isSecure": false,
          "isRecreated": true
        },
        "new": {
          "value": "dfs",
          "isSecure": false,
          "isRecreated": false
        },
        "vsl3": {
          "value": "dfs",
          "isSecure": false,
          "isRecreated": false
        }
      }
    }
  ]
}
```

## JFrog REST APIs Displayed in the header

```
"new": {  
    "value": "dfs",  
    "isSecure": false,  
    "isRecreated": false  
},  
"vsl3": {  
    "value": "dfs",  
    "isSecure": false,  
    "isRecreated": false  
}  
}  
]  
,"permissions": {  
    "pipelineSources": {  
        "allPipelineSourcesAllowed": true  
    }  
}  
}  
}
```

### Response Codes:

200: Success

400: Invalid parameters

404: If no Project integration is found for the supplied id

### 6.12.3 | Delete a Project Integration

**Description:** Deletes a project integration.

**Security:** Requires a valid user

**Usage:** DELETE api/v1/projectIntegrations/{projectId}

**Produces:** application/json

#### URL Parameters:

Parameter	Type	Description	Required/Optional
projectId	Integer	Id of the project integration.	Required

#### Sample Response:

```
{  
    "id": 2  
}
```

### Response Codes:

200: Success

400: Invalid parameters

404: If no project integration is found for the supplied id

### 6.12.4 | Get Project Integrations

**Description:** Gets all project integrations.

# JFrog REST APIs Displayed in the header

**Security:** Requires a valid user

**Usage:** GET api/v1/projectIntegrations

**Produces:** application/json

**Query Parameters:**

Parameter	Type	Description	Required/Optional
projectIntegrationIds	String	A filter on the list based on the `id` property of the projectIntegration. Expects a comma separated string of projectIntegrationIds.	Optional
limit	Integer	A limit on the number of projectIntegrations returned.	Optional
skip	Integer	A cursor for use in pagination. `skip` defines the number of projectIntegrations skipped.	Optional
projectIds	String	A filter on the list based on the `projectId` property of the projectIntegration. Expects a comma separated string of projectIds.	Optional
names	String	A filter on the list based on the `name` property of the projectIntegration. Expects a comma separated string of names.	Optional
masterIntegrationTypes	String	A filter on the list based on the `masterIntegrationType` property of the projectIntegrations. Expects a comma separated string of masterIntegrationTypes.	Optional
masterIntegrationIds	String	A filter on the list based on the `masterIntegrationId` property of the projectIntegration. Expects a comma separated string of masterIntegrationIds.	Optional
masterIntegrationNames	String	A filter on the list based on the `name` property of the masterIntegration to which the projectIntegration belongs to. Expects a comma separated string of masterIntegrationNames.	Optional
environments	String	A filter on the list based on the `environments` to which the projectIntegration belongs. Expects a comma separated list of environments and will return projectIntegrations with at least one.	Optional
isInternal	Boolean	A filter on the list based on the `isInternal` property of the projectIntegration.	Optional
sortBy	String	The projectIntegration properties to sort the results by. Expects a comma separated list of sorters.	Optional

## JFrog REST APIs Displayed in the header

Parameter	Type	Description	Required/Optional
sortOrder	Integer	A sort order based on the `sortBy` defined. If `1`, sorts the list in ascending order. If `-1`, sorts the list in descending order.	Optional

### Sample Response:

```
[
  {
    "propertyBag": {},
    "permissions": {
      "allowAllPipelineSources": true
    },
    "id": 2,
    "name": "i_artifactory",
    "projectId": 1,
    "masterIntegrationId": 98,
    "masterIntegrationType": "generic",
    "masterIntegrationName": "artifactory",
    "providerId": null,
    "isInternal": false,
    "createdByUserName": "admin",
    "updatedByUserName": "admin",
    "createdBy": 3,
    "updatedBy": 3,
    "createdAt": "2019-11-11T10:24:46.112Z",
    "updatedAt": "2019-11-11T10:24:46.112Z",
    "formJSONValues": [
      {
        "label": "apikey",
        "value": "AKCp5dK4oM4kP9VJL98E5Hsqbc"
      },
      {
        "label": "url",
        "value": "http://192.168.50.4:8081"
      },
      {
        "label": "user",
        "value": "admin"
      }
    ]
  }
]
```

### Response Codes:

200: Success

400: Invalid parameters

404: If no project integration is found for the supplied id

### 6.12.5 | Get a Project Integration

**Description:** Get a project integration based on integration Id.

**Security:** Requires a valid user

**Usage:** GET api/v1/projectIntegration/{projectId}

**Produces:** application/json

### Query Parameters:

## JFrog REST APIs Displayed in the header

Parameter	Type	Description	Required/Optional
projectIntegrationId	String	Id of the project integration	Required

**Sample Request:** GET api/v1/projectIntegration/{projectIntegrationId} GET api/v1/projectIntegration/2

**Sample Response:**

```
[  
  {  
    "propertyBag": {},  
    "permissions": {  
      "allowAllPipelineSources": true  
    },  
    "id": 2,  
    "name": "i_artifactory",  
    "projectId": 1,  
    "masterIntegrationId": 98,  
    "masterIntegrationType": "generic",  
    "masterIntegrationName": "artifactory",  
    "providerId": null,  
    "isInternal": false,  
    "createdByUserName": "admin",  
    "updatedByUserName": "admin",  
    "createdBy": 3,  
    "updatedBy": 3,  
    "createdAt": "2019-11-11T10:24:46.112Z",  
    "updatedAt": "2019-11-11T10:24:46.112Z",  
    "formJSONValues": [  
      {  
        "label": "apikey",  
        "value": "AKCp5dK4oM4kP9VJL98E5Hsqbc"  
      },  
      {  
        "label": "url",  
        "value": "http://192.168.50.4:8081"  
      },  
      {  
        "label": "user",  
        "value": "admin"  
      }  
    ]  
  }  
]
```

**Response Codes:**

200: Success

400: Invalid parameters

404: If no project integration is found for the supplied id

### 6.12.6 | Share a Project Integration

**Description:** Shares a project integration with one or more projects.

**Security:** Requires a valid user

**Usage:** PUT api/v1/projectIntegrations/{projectIntegrationId}/share

**Produces:** application/json

## JFrog REST APIs Displayed in the header

### URL Parameters:

Parameter	Type	Description	Required/Optional
projectIntegrationId	Integer	<p>Id of the project integration to be shared.</p> <p>Use the Get Project Integrations API to get the list of all Project integrations.</p>	Required

### Request Parameters:

Parameter	Type	Description	Required/Optional
sharedWithProjects	Array	Comma-separated list of project IDs that this integration will be shared with.	Mandatory
shareWithAllProjects	Boolean	Set true to share the integration with all projects.	Mandatory
sharedReadOnly	Boolean	Set true to share the integration as read-only.	Mandatory

### Sample Request:

```
{  
    "sharedWithProjects": [1, 2],  
    "shareWithAllProjects": false,  
    "sharedReadOnly": false  
}
```

### Sample Response:

```
{  
    "resourceName": "testproj1_projGit",  
    "environmentsList": [  
        "DEV"  
    ],  
    "sharedWithProjectsList": [],  
    "shareWithAllProjects": false,  
    "sharedReadOnly": false  
}
```

### Response Codes:

200: Success

400: Invalid parameters

404: If no project integration is found for the supplied id

### 6.12.7 | Get Project Integrations Share Information

**Description:** Gets the sharing options for an integration you can use.

**Security:** Requires a valid user

**Usage:** GETapi/v1/projectIntegrations/{projectIntegrationId}/share

# JFrog REST APIs Displayed in the header

Produces: application/json

URL Parameters:

Parameter	Type	Description	Required/Optional
projectIntegrationId	Integer	<p>Id of the project integration.</p> <p>Use the Get Project Integrations API to get the list of all Project integrations.</p>	Required

Sample Response:

GET api/v1/projectIntegrations/6/share

```
{  
    "resourceName": "testproj1_projGit",  
    "environmentsList": [  
        "DEV"  
    ],  
    "sharedWithProjectsList": [],  
    "sharedWithAllProjects": false,  
    "sharedReadOnly": false  
}
```

Response Codes:

200: Success

400: Invalid parameters

404: If no project integration is found for the supplied id

## 6.13 | PIPELINE SOURCES

### 6.13.1 | Add a Pipeline Source

Description: Adds a pipeline source. Requires projectId or project with name.

Security: Requires admin credentials

Usage: POST api/v1/pipelinesources

Produces: application/json

Required Parameters:

Parameter	Type	Description	Required/Optional
projectId	Integer	<p>Id of the Project.</p>	Required
project	String	<p>An object containing a project name as an alternative to projectId.</p> <p>You can set the following properties:</p>	Optional

# JFrog REST APIs Displayed in the header

Parameter	Type	Description	Required/Optional
		<ul style="list-style-type: none"> <li><b>Name:</b> Name of the Project.</li> <li><b>Key:</b> A unique Project Key to identify and group your Projects.</li> </ul>	
projectIntegrationId	integer	Id of the Git integration to use to create the pipeline source. For more information, see Get Project Integrations.	Required
repositoryFullName	String	The full name of the Git repository including the user/organization as it appears in a Git clone command. For example, myOrg/myProject.	Required, unless valuesYmlPropertyBag is provided
branch	String	For single branch pipeline sources. Name of branch that has the pipeline definition.	Required for a single branch pipeline
fileFilter	String	If no templateId was provided, a regular expression to determine which files to include in pipeline sync (the YML files), with default pipelines.yml. If a templateId was provided, it must be values.yml.	Required
name	String	Name of the source.	Required
cloneProtocol	String	Type of the protocol. Allowed values are ssh or https.	Required
isMultiBranch	Boolean	True if the pipeline source is to be a multi-branch pipeline source. Otherwise, it will be a single-branch pipeline source.	Optional
branchExcludePattern	String	For multi-branch pipeline sources, a regular expression of the branches to exclude.	Optional
branchIncludePattern	String	For multi-branch pipeline sources, a regular expression of the branches to include.	Optional
environments	Array	In a project, an array of environment names in which this pipeline source will be.	Optional
templateId	Integer	The id of a template to use for this pipeline source, in which case the fileFilter will only specify the values.yml.	Optional
valuesYmlPropertyBag	Object	An object containing values for the template as an alternative to the repository.	Optional

# JFrog REST APIs Displayed in the header

## Sample Usage:

### Example: Adds a pipeline source

```
curl -X POST -H "Authorization: Bearer <your-token> <Pipelines-Url>/api/v1/pipelinesources -d '{  
    "projectId": 1,  
    "projectIntegrationId": 66,  
    "repositoryFullName": "myrepo/docker-sample",  
    "branch": "master",  
    "fileFilter": "pipelines.yml",  
    "name": "test_my_resource",  
    "cloneProtocol": "ssh"  
}'
```

## Response

200 OK

```
{  
    "id": 1181,  
    "projectId": 1,  
    "projectIntegrationId": 66,  
    "repositoryFullName": "myrepo/docker-sample",  
    "isMultiBranch": false,  
    "branch": "master",  
    "branchIncludePattern": null,  
    "branchExcludePattern": null,  
    "fileFilter": "pipelines.yml",  
    "name": "test_my_resource",  
    "cloneProtocol": "ssh",  
    "isSyncing": false,  
    "lastSyncStatusCode": 0,  
    "lastSyncStartedAt": "2020-06-01T20:41:04.650Z",  
    "lastSyncEndedAt": "2020-06-01T20:41:04.650Z",  
    "lastSyncLogs": null,  
    "resourceId": 2017,  
    "createdBy": "janeroe",  
    "updatedBy": "janeroe"  
}
```

## Response Codes:

200: Success

404: No pipeline found for the supplied ID

## 6.13.2 | Update a Pipeline Source

**Description:** Updates a pipeline source.

**Security:** Requires admin credentials

**Usage:** PUT api/v1/pipelinesources

**Produces:** application/json

**Required Parameters:**

Parameter	Type	Description	Required/Optional
projectIntegrationId	Integer	Id of the Git integration to use to create the pipeline source. For more information, see Get Project Integrations.	Required

# JFrog REST APIs Displayed in the header

Parameter	Type	Description	Required/Optional
environments	Array	In a project, an array of environment names in which this pipeline source will be.	Optional
templateId	Integer	The id of a template to use for this pipeline source, in which case the fileFilter will only specify the values.yml.	Optional
valuesYmlPropertyBag	Object	An object containing values for the template as an alternative to the repository.	Optional
branchExcludePattern	String	For multi-branch pipeline sources, a regular expression of the branches to exclude.	Optional
branchIncludePattern	String	For multi-branch pipeline sources, a regular expression of the branches to include.	Optional
fileFilter	String	If no templateId was provided, a regular expression to determine which files to include in pipeline sync (the YML files), with default pipelines.yml. If a templateId was provided, it must be values.yml.	
isSyncing	Boolean	True when the pipeline source is currently being synchronized, otherwise false.	Optional
lastSyncStatusCode	Integer	The status code of the last attempt to sync the pipeline source.	Optional
lastSyncStartedAt	Date	The time that last sync started. Format: date-time	Optional
lastSyncEndedAt	Date	The time the last sync ended. Format: date-time	Optional
lastSyncLogs	String	Logs from the last time the pipeline source was synchronized.	Optional

## Sample Response:

```
{
  "id": 1,
  "projectId": 1,
  "templateId": 1,
  "integrationId": 1,
  "repositoryFullName": "ankul-able/sample_java",
  "branch": "master",
  "fileFilter": "pipelines.config",
  "environments": ["DEV", "PROD"],
  "isSyncing": false,
  "lastSyncStatusCode": 4002,
  "lastSyncStartedAt": "2019-04-15T05:39:29.627Z",
  "lastSyncEndedAt": "2019-04-15T05:39:43.478Z",
  "lastSyncLogs": "Successfully synced pipeline source\n\nSUMMARY:\n\nCreated 1 resources\nCreated 1 pipelines\nCreated 1 steps\n\nDETAILS:\n\npipelines.config: successfully created resource: sample_node\npipelines.config: successfully created"
}
```

## JFrog REST APIs Displayed in the header

```
pipeline: pipeline_1\npipelines.config: successfully created step: step_A\nSuccessfully created connection between step:  
step_A and sample_node",  
    "resourceId": 1,  
    "createdBy": "Service User",  
    "updatedBy": "Service User",  
    "createdAt": "2019-04-15T05:39:21.866Z",  
    "updatedAt": "2019-04-15T05:39:43.485Z"  
}
```

### Response Codes:

200: Success

404: No pipeline found for the supplied ID

### 6.13.3 | Delete a Pipeline Source

**Description:** Deletes a pipeline source by id.

**Security:** Requires admin credentials

**Usage:** DELETE api/v1/pipelineSources/{id}

**Produces:** application/json

#### URL Parameters:

Parameter	Type	Description	Required/Optional
id	Integer	Id of the pipeline source to be deleted.	Required

#### Response:

```
{  
  "id": 2  
}
```

### Response Codes:

200: Success

### 6.13.4 | Get all Pipeline Sources

**Description:** Gets a collection of pipeline sources that the credential has access to. Filter criteria can be supplied via query string parameters.

**Security:** Requires a valid user

**Usage:** GET api/v1/pipelinesources

#### Query Parameters:

Parameter	Data Type	Description
limit	integer	Optional. A limit on the number of pipelineSources returned.

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Parameter	Data Type	Description
skip	integer	Optional. A cursor for use in pagination. skip defines the number of pipelineSources skipped.
pipelineSourceIds	string	Optional. A filter on the list based on the is that the pipelineSource belongs to. Expects a comma separated list of ids.
projectIds	string	Optional. A filter on the list based on the projectId that the pipelineSource belongs to. Expects a comma separated list of projectIds.
projectIntegrationIds	string	Optional. A filter on the list based on the projectIntegrationId that the pipelineSource belongs to. Expects a comma separated list of projectIntegrationIds.
includeNamesPattern	string	Optional. Only pipelineSources with repositoryFullName/branch matching one of the comma-separated patterns will be returned.
excludeNamesPattern	string	Optional. Only pipelineSources with repositoryFullName/branch not matching any of the comma-separated patterns will be returned.

**Produces:** application/json

**Sample Response:**

```
GET api/v1/pipelinesources
[
  {
    "id": 0,
    "projectId": 0,
    "projectIntegrationId": 0,
    "repositoryFullName": "string",
    "isMultiBranch": true,
    "branch": "string",
    "branchExcludePattern": "string",
    "branchIncludePattern": "string",
    "fileFilter": "string",
    "isSyncing": true,
    "lastSyncStatusCode": 0,
    "lastSyncStartedAt": "2020-06-01T20:27:09.165Z",
    "lastSyncEndedAt": "2020-06-01T20:27:09.165Z",
    "lastSyncLogs": "string",
    "resourceId": 0,
    "createdBy": "string",
    "updatedBy": "string"
  }
]
```

**Response Codes:**

200: Success

### 6.13.5 | Get a Pipeline Source

**Description:** Gets a single pipeline source for the supplied numeric id. In the query, if sync is set as true and if branch is set to a multibranch, the latest commit will also be synchronized.

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**Security:** Requires a valid user

**Usage:** GET api/v1/pipelineSources/:id

**Produces:** application/json

**URL parameters:**

Parameter	Data Type	Description
id	Integer	The numeric id of the pipeline source being requested

**Query Parameters:**

Parameter	Data Type	Description
sync	Boolean	'True' to force the pipelineSource to sync.
branch	integer	The branch to sync. Only valid for multibranch sources, and only if sync is true.

**Request Parameters:** Ignored

**Sample Response:**

Returns the pipelineSource entity with the supplied numeric id.

```
{  
  "id": 1,  
  "projectId": 1,  
  "templateId": 1,  
  "integrationId": 1,  
  "repositoryFullName": "ankul-shippable/sample_java",  
  "branch": "master",  
  "fileFilter": "pipelines.config",  
  "isSyncing": false,  
  "lastSyncStatusCode": 4002,  
  "lastSyncStartedAt": "2019-04-15T05:39:29.627Z",  
  "lastSyncEndedAt": "2019-04-15T05:39:43.478Z",  
  "lastSyncLogs": "Successfully synced pipeline source\nSUMMARY:\nCreated 1 resources\nCreated 1 pipelines\nCreated 1 steps\nDETAILS:\npipelines.config: successfully created resource: sample_node\npipelines.config: successfully created pipeline: pipeline_1\npipelines.config: successfully created step: step_A\nSuccessfully created connection between step: step_A and sample_node",  
  "resourceId": 1,  
  "createdBy": "Service User",  
  "updatedBy": "Service User",  
  "createdAt": "2019-04-15T05:39:21.866Z",  
  "updatedAt": "2019-04-15T05:39:43.485Z"  
}
```

**Response Codes:**

200: Success

404: If no pipelineSource is found for the supplied id

## 6.14 | PIPELINES

### 6.14.1 | Get Pipelines

**Description:** Gets a collection of pipelines that the credential has access to. Filter criteria can be supplied via query string parameters.

**Security:** Requires a valid user

**Usage:** GET api/v1/pipelines

**Query Parameters:**

Parameter	Data Type	Description
projectIds	string	Optional. A filter on the list based on the projectId property of the pipeline. Expects a comma separated string of projectIds.
pipelineSourceBranches	string	Optional. A filter on the list based on the pipelineSourceBranch property of the pipeline. Expects a comma separated string of pipelineSourceBranches.
pipelineIds	string	Optional. A filter on the list based on the id property of the pipeline. Expects a comma separated string of ids.
names	string	Optional. A filter on the list based on the name property of the pipeline. Expects a comma separated string of names.
pipelineSourceIds	string	Optional. A filter on the list based on the pipelineSourceId property of the pipeline. Expects a comma separated string of pipelineSourceIds.
includeDeleted	boolean	Optional. A filter on the list based on the isDeleted property of the pipeline. Default false.
isDeleted	boolean	Optional. A filter on the list based on the isDeleted property of the pipeline. If includeDeleted is true, this will be ignored.
deletedBefore	string(\$date-time)	Optional. A filter on the list that returns if deletedAt property of the pipeline is less than deletedBefore.
light	boolean	Optional. Default is false. If set to true only part of the data is returned
sortBy	string	Optional. Comma separated list of sort attributes
sortOrder	integer	Optional. 1 for ascending and -1 for descending based on sortBy
limit	integer	Optional. A limit on the number of pipelines returned.

Parameter	Data Type	Description
skip	integer	Optional. A cursor for use in pagination. skip defines the number of pipelines skipped.

**Produces:** application/json

**Sample Usage:**

```
GET api/v1/pipelines?light=true
[
  {
    "id": 375,
    "name": "gradle_pipeline",
    "pipelineSourceBranch": null,
    "pipelineSourceId": 544,
    "latestRunId": 717
  },
  {
    "id": 98,
    "name": "basic",
    "pipelineSourceBranch": null,
    "pipelineSourceId": 130,
    "latestRunId": null
  }
]
```

**Response Codes:**

200: Success

### 6.14.2 | Get Pipeline by ID

**Description:** Gets a single pipeline for the supplied numeric id.

**Security:** Requires a valid user

**Usage:** GET api/v1/pipelines/:pipelineId

**Produces:** application/json

**Sample Usage:**

```
GET /api/v1/pipelines/375

{
  "ymlConfigPropertyBag": null,
  "ymlPropertyBag": {
    "name": "gradle_pipeline",
    "steps": [
      {
        "name": "gradle_build_step",
        "type": "GradleBuild",
        "configuration": {
          "gradleCommand": "clean artifactoryPublish -b build.gradle",
          "sourceLocation": "gradle-examples/gradle-example-minimal",
          "configFileLocation": ".",
          "configFileName": "gradle-art-config",
          "inputResources": [
            {
              "name": "gradle_repo"
            }
          ],
          "integrations": [
            ...
          ]
        }
      }
    ]
  }
}
```

```
{
    "name": "art"
}
]
},
{
    "name": "publish_build_info_gradle",
    "type": "PublishBuildInfo",
    "configuration": {
        "inputSteps": [
            {
                "name": "gradle_build_step"
            }
        ],
        "outputResources": [
            {
                "name": "build_info_gradle"
            }
        ]
    }
},
"id": 375,
"name": "gradle_pipeline",
"pipelineSourceBranch": null,
"projectId": 1,
"pipelineSourceId": 544,
"latestRunNumber": 3,
"latestRunId": 717,
"syntaxVersion": "v1.0",
"isDeleted": false,
"deletedAt": null,
"createdAt": "2020-02-04T13:36:57.172Z",
"updatedAt": "2020-02-13T17:57:05.839Z"
}
```

**Response Codes:**

200: Success

404: No pipeline found for the supplied ID

### 6.14.3 | Get Pipeline Artifacts

**Description:** Download artifacts of a pipeline. A artifact name query string should be included to specify the names of the artifacts to download.

**Security:** Requires a valid user

**Usage:** GET api/v1/pipelines/:pipelineId/artifacts

**Query Parameters:**

Parameter	Data Type	Description
artifactName	string	Required. Name of the artifact that has to be downloaded.

**Produces:** application/gzip

**Response:** Returns a .tar.gz file.

**Response Codes:**

200: Success

404: Artifact URLs cannot be found and an empty file is returned if the artifact is otherwise unavailable.

#### 6.14.4 | Get Pipeline State

**Description:** Gets a download URL for the latest version of the pipeline state.

**Security:** Requires a valid user

**Usage:** GET api/v1/pipelines/:pipelineId/latestState

**Produces:** application/json

**Sample Response:**

```
{  
  "getOpts": "string",  
  "get": "string"  
}
```

**Response Codes:**

200: Success

400: Checking for archives fails

404: There is no global root bucket

#### 6.14.5 | Trigger Pipeline

**Description:** Triggers a pipeline. If a runId is supplied in the request body, environment variables from the specified run will be reused. Environment variables can be overridden and extended. Resource versions can be overridden. Any integrations will use the most recent version of the integration.

**Security:** Requires a valid user

**Usage:** POST api/v1/pipelines/trigger

**Produces:** application/json

**Request Parameters:**

Parameter	Type	Description	Required/Optional
runId	Integer	The ID of a previous run that should be rerun. If this parameter is supplied, pipelineName, pipelineBranch and projectKey will be ignored.	Optional (required if pipelineName is not supplied)
pipelineName	string	The name of the pipeline to trigger.	Optional
branchName	string	The branch of the pipeline to trigger. If runId is not supplied, this field is required for multibranch pipelines.	Optional

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Parameter	Type	Description	Required/Optional
projectKey	Object	The project key of the pipeline to trigger. If runId is not supplied, this field is required for installations with more than one project.	Optional
steps	Array of Objects	<p>The steps to run in the pipeline. Any downstream steps will run automatically, but can also be specified. If this field is blank and a runId is supplied, all steps that ran in the specified run will run. If this field is blank and a pipelineName is supplied, all steps defined in the pipeline will run.</p> <ul style="list-style-type: none"> <li>• <b>name:</b> Name of the step (required)</li> <li>• <b>injectedEnvs:</b> Environment variables for the step.</li> <li>• <b>resourceOverrides:</b> Overrides resource versions. Old versions can be used instead of the latest version.</li> </ul>	Optional
injectedPipeEnvs	Array of Objects	Pipeline-level environment variables. These are used in all steps in the pipeline.	Optional

### Sample request bodies:

```
// trigger a pipeline
{
  pipelineName: 123,
  projectKey: foo,
  branchName: dev,
  injectedPipeEnvs: [ # these apply to all steps in the run
    {
      key: password,
      value: password
    }
  ],
  steps: [
    {
      name: step1,
      injectedEnvs: [ # these apply only to the single step
        {
          key: hello,
          value: world
        }
      ],
      resourceOverrides: [
        {
          resourceVersionId: 42,
          resourceId: 43
        }
      ]
    },
    {
      name: step2,
      injectedEnvs: [
        {
          key: abc,
          value: 123
        }
      ]
    }
  ]
}
```

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```
// retrigger a run
{
  runId: 42
  injectedPipeEnvs: [
    {
      key: password,
      value: password
    }
  ],
  steps: [
    {
      name: step1,
      injectedEnvs: [
        {
          key: hello,
          value: world
        }
      ],
      resourceOverrides: [
        {
          resourceVersionId: 42,
          resourceId: 43
        }
      ]
    },
    {
      name: step2,
      injectedEnvs: [
        {
          key: abc,
          value: 123
        }
      ]
    }
  ]
}
```

### Sample Response:

```
{ triggerId: 123 }
```

### Response Codes:

200: Success

400: Bad Request

## 6.14.6 | Set Next Run Number

**Description:** Admin users can set the next run number so that the next run will start from the given run number. The run number provided must be greater than the current run number.

**Security:** Requires a valid user

**Usage:** PUT api/v1/pipelines/:pipelineId

**Produces:** application/json

**Request Parameters:**

Parameter	Type	Description	Required/Optional
pipelineId	Integer	The numeric Id of the pipeline for which the next run number is to be set.	Required

**Sample request bodies:**

```
{  
    nextRunNumber: 123  
}
```

**Response Codes:**

200: Success

404: No pipeline found for the supplied ID

## 6.15 | PIPELINE SYNC STATUS

Status of a pipeline sync.

### 6.15.1 | Get a Pipeline Sync Status

**Description:** Gets a pipeline sync status based on Id.

**Security:** Requires admin credentials

**Usage:** GET api/v1/pipelineSyncStatuses/{pipelineSyncStatusId}

**Produces:** application/json

**URL Parameters:**

Parameter	Type	Description
pipelineSyncStatusId	Integer	The numeric id of the pipelineSyncStatus being requested.

**Query Parameters:** Ignored

**Request Parameters:** Ignored

**Sample Response:**

```
{  
    "id": 1,  
    "projectId": 1,  
    "pipelineSourceId": 1,  
    "pipelineSourceBranch": null,  
    "isSyncing": false,  
    "lastSyncStatusCode": 4002,  
    "lastSyncStartedAt": "2019-10-09T04:17:34.690Z",  
    "lastSyncEndedAt": "2019-10-09T04:17:41.221Z",  
    "lastSyncLogs": "Successfully synced pipeline source\nSUMMARY:\nCreated 1 resources\nCreated 1 pipelines\nCreated 1 steps\nDETAILS:\npipelines.yml: successfully created resource: myAppRepo\\npipelines.yml: successfully created pipeline: pipeline_hello_world\\npipelines.yml: successfully created step: step_1\\nSuccessfully created connection between step: step_1 and myAppRepo",  
    "createdAt": "2019-10-09T04:17:34.704Z",  
    "updatedAt": "2019-10-09T04:17:41.234Z"  
}
```

**Response Codes:**

200: Success

404: If pipelineSyncStatusId is not an integer

404: If there is no pipelineSyncStatus found with that id

## 6.16 | RUNS

### 6.16.1 | Get Runs

**Description:** Gets a collection of runs. Filter criteria can be supplied via query string parameters.

**Security:** Requires a valid user

**Usage:** GET api/v1/runs

**Query Parameters:**

Parameter	Data Type	Description
limit	integer	Optional. A limit on the number of runs returned.
skip	integer	Optional. A cursor for use in pagination. skip defines the number of runs skipped.
light	boolean	Optional. Default is false. If set to true only part of the data is returned
runIds	string	Optional. A filter on the list based on the id property of the run. Expects a comma separated string of runIds.
projectIds	string	Optional. A filter on the list based on the projectId property of the run. Expects a comma separated string of projectIds.
pipelineIds	string	Optional. Comma separated list of pipeline ids for which runs are being retrieved
pipelineSourceIds	string	Optional. Comma separated list of pipeline source ids for which runs are being retrieved
runNumbers	string	Optional. Comma separated list of run numbers
createdAfter	string	Optional. Runs created before the date
createdBefore	string	Optional. Runs created after the date
statusCodes	string	Optional. Comma separated string of status codes
sortBy	string	Optional. Comma separated list of sort attributes
sortOrder	integer	Optional. 1 for ascending and -1 for descending based on sortBy

**Produces:** application/json

**Sample Usage:**

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**Example:** Get the successful (statusCode: 4002) runs created after a certain date for a specific pipeline (id: 375)

```
GET api/v1/runs?pipelineIds=375&statusCode=4002&createdAfter=2020-02-02T13:37:19.290Z
[
  {
    "staticPropertyBag": {
      "triggeredByUserName": "admin"
    },
    "id": 717,
    "pipelineId": 375,
    "pipelineSourceId": 544,
    "projectId": 1,
    "runNumber": 3,
    "statusCode": 4002,
    "endedAt": "2020-02-13T17:58:07.042Z",
    "startedAt": "2020-02-13T17:57:16.575Z",
    "createdAt": "2020-02-13T17:57:05.834Z",
    "updatedAt": "2020-02-13T17:58:16.438Z"
  },
  {
    "staticPropertyBag": {
      "triggeredByUserName": "admin"
    },
    "id": 528,
    "pipelineId": 375,
    "pipelineSourceId": 544,
    "projectId": 1,
    "runNumber": 1,
    "statusCode": 4002,
    "endedAt": "2020-02-04T13:38:20.958Z",
    "startedAt": "2020-02-04T13:37:26.666Z",
    "createdAt": "2020-02-04T13:37:19.290Z",
    "updatedAt": "2020-02-04T13:38:25.536Z"
  },
  {
    "staticPropertyBag": {
      "triggeredByUserName": "admin"
    },
    "id": 654,
    "pipelineId": 375,
    "pipelineSourceId": 544,
    "projectId": 1,
    "runNumber": 2,
    "statusCode": 4002,
    "endedAt": "2020-02-10T12:25:57.600Z",
    "startedAt": "2020-02-10T12:25:00.630Z",
    "createdAt": "2020-02-10T12:22:22.134Z",
    "updatedAt": "2020-02-10T12:26:06.832Z"
  }
]
```

### Response Codes:

200: Success

### 6.16.2 | Get Runs by ID

**Description:** Gets a single run for the supplied numeric ID.

**Security:** Requires a valid user

**Usage:** GET api/v1/runs/:runId

**Produces:** application/json

**Sample Usage:**

```
{  
    "id": 0,  
    "pipelineId": 0,  
    "pipelineSourceId": 0,  
    "projectId": 0,  
    "runNumber": 0,  
    "statusCode": 0,  
    "staticPropertyBag": {},  
    "endedAt": "2019-12-03T22:37:38.982Z",  
    "startedAt": "2019-12-03T22:37:38.982Z"  
}
```

**Response Codes:**

200: Success

400: Run not found for the supplied ID

### 6.16.3 | Cancel Run by ID

**Description:** Cancels a run.

**Security:** Requires a valid user

**Usage:** POST api/v1/runs/:runId/cancel

**Produces:** application/json

**Sample Response:**

```
{  
    "id": 0,  
    "pipelineId": 0,  
    "pipelineSourceId": 0,  
    "projectId": 0,  
    "runNumber": 0,  
    "statusCode": 0,  
    "staticPropertyBag": {},  
    "endedAt": "2019-12-03T22:37:38.982Z",  
    "startedAt": "2019-12-03T22:37:38.982Z"  
}
```

**Response Codes:**

200: Success

400: Run not found for the supplied ID

### 6.16.4 | Get Run Resource Versions

**Description:** Gets a collection of resource versions that were produced in runs. Filter criteria can be supplied via query string parameters.

**Security:** Requires a valid user

**Usage:** GET api/v1/runResourceVersions

**Query Parameters:**

Parameter	Data Type	Description
limit	integer	Optional. A limit on the number of runResourceVersions returned.

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Parameter	Data Type	Description
skip	integer	Optional. A cursor for use in pagination. skip defines the number of runResourceVersions skipped.
runResourceVersionIds	string	Optional. A filter on the list based on the id property of the runResourceVersion. Expects a comma separated string of runResourceVersionIds.
pipelineIds	string	Optional. Comma separated list of pipeline ids for which runs are being retrieved
projectIds	string	Optional. Comma separated list of project ids for which runs are being retrieved
pipelineSourceIds	string	Optional. Comma separated list of pipeline source ids for which runs are being retrieved
runIds	string	Optional. Comma separated list of run ids
stepIds	string	Optional. Comma separated list of step ids
resourceNames	string	Optional. Comma separated list of resource names
resourceVersionIds	string	Optional. Comma separated list of resource version IDs
sortBy	string	Optional. Comma separated list of sort attributes
sortOrder	integer	Optional. 1 for ascending and -1 for descending based on sortBy

**Produces:** application/json

### **Sample Response:**

GET api/v1/runresourceversions?pipelineIds=375&runIds=717

```
[  
{  
    "resourceStaticPropertyBag": {},  
    "resourceConfigPropertyBag": {  
        "integrationName": "art",  
        "integrationAlias": "sourceArtifactory"  
    },  
    "resourceVersionContentPropertyBag": {  
        "buildName": "test_gradle_pipeline",  
        "buildNumber": "3",  
        "targetRepo": "test-generic-local"  
    },  
    "id": 940,  
    "projectId": 1,  
    "pipelineSourceId": 544,  
    "pipelineId": 375,  
    "runId": 717,  
    "stepId": 1278,  
    "resourceName": "promoted build info gradle"  
}
```

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```
"resourceTypeCode": 2018,  
"resourceVersionId": 2017,  
"resourceVersionCreatedByStepId": 1278,  
"createdAt": "2020-02-13T17:57:06.667Z",  
"updatedAt": "2020-02-13T17:58:06.936Z"  
,  
{  
    "resourceStaticPropertyBag": {},  
    "resourceConfigPropertyBag": {  
        "integrationName": "art",  
        "integrationAlias": "sourceArtifactory"  
    },  
    "resourceVersionContentPropertyBag": {  
        "buildName": "test_gradle_pipeline",  
        "buildNumber": "3"  
    },  
    "id": 941,  
    "projectId": 1,  
    "pipelineSourceId": 544,  
    "pipelineId": 375,  
    "runId": 717,  
    "stepId": 1278,  
    "resourceName": "build_info_gradle",  
    "resourceTypeCode": 2018,  
    "resourceVersionId": 2016,  
    "resourceVersionCreatedByStepId": 1277,  
    "createdAt": "2020-02-13T17:57:06.670Z",  
    "updatedAt": "2020-02-13T17:58:02.906Z"  
}  
]  
]
```

### Response Codes:

200: Success

## 6.17 | RESOURCES

### 6.17.1 | Get Resources

**Description:** Gets a collection of resources. Filter criteria can be supplied via query string parameters. Gets all resources if no query parameters are supplied.

**Security:** Requires a valid user

**Usage:** GET api/v1/resources

#### Query Parameters:

Parameter	Data Type	Description
pipelineSourceIds	string	Optional. Comma-separated list of pipelineSource ids
resourceIds	string	Optional. Comma-separated list of resource ids
projectIds	string	Optional. Comma-separated list of project ids
names	string	Optional. Comma-separated list of resource names

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Parameter	Data Type	Description
typeCodes	string	Optional. Comma-separated list of resource type codes
pipelineSourceBranches	string	Optional. Comma-separated list of pipeline source branches
isDeleted	boolean	Optional. Default is false. Filters based on the <code>isDeleted</code> property of the resource
deletedBefore	string(\$date-time)	Optional. Filters for resources where <code>deletedAt</code> property is less than <code>deletedBefore</code>
isConsistent	boolean	Optional. Default is false. Filter based on the <code>isConsistent</code> property of the resource
isInternal	boolean	Optional. Default is false. Filter based on the <code>isInternal</code> property of the resource
projectIntegrationIds	string	Optional. Comma-separated list of project integration IDs
createdBefore	string(\$date-time)	Optional. Runs created before the date
createdAfter	string(\$date-time)	Optional. Runs created after the date
nextTriggerTimeBefore	string(\$date-time)	Optional. Runs triggered before the date
sortBy	string	Optional. Comma-separated list of sort attributes
sortOrder	integer	Optional. 1 for ascending and -1 for descending based on <code>sortBy</code>
limit	integer	Optional. A limit on the number of resources returned.
skip	integer	Optional. A cursor for use in pagination. <code>skip</code> defines the number of resources skipped.

**Produces:** application/json

**Sample Usage:**

**Example:** Get all the build info resources defined across all the pipelines

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```
GET api/v1/resources?typeCodes=2018
[
  {
    "id": 2019,
    "projectId": 1,
    "pipelineSourceId": 1181,
    "createdAt": "2020-02-23T00:42:48.028Z",
    "updatedAt": "2020-02-23T00:42:52.946Z",
    "ymlConfigPropertyBag": {
      "integrationName": "art",
      "integrationAlias": "sourceArtifactory"
    },
    "systemPropertyBag": {},
    "staticPropertyBag": {},
    "yml": {
      "name": "svc_build_info_sample",
      "type": "BuildInfo",
      "configuration": {
        "sourceArtifactory": "art",
        "buildName": "svc_build",
        "buildNumber": 1
      }
    },
    "name": "svc_build_info_sample",
    "pipelineSourceBranch": null,
    "projectIntegrationId": 65,
    "typeCode": 2018,
    "latestResourceVersionId": 2634,
    "isDeleted": false,
    "deletedAt": null,
    "isConsistent": true,
    "isInternal": false,
    "syntaxVersion": "v1.0",
    "nextTriggerTime": null
  },
  {
    "id": 2018,
    "projectId": 1,
    "pipelineSourceId": 1181,
    "createdAt": "2020-02-23T00:42:48.024Z",
    "updatedAt": "2020-02-23T00:42:52.948Z",
    "ymlConfigPropertyBag": {
      "integrationName": "art",
      "integrationAlias": "sourceArtifactory"
    },
    "systemPropertyBag": {},
    "staticPropertyBag": {},
    "yml": {
      "name": "svc_promoted_build_info_sample",
      "type": "BuildInfo",
      "configuration": {
        "sourceArtifactory": "art",
        "buildName": "svc_build",
        "buildNumber": 1
      }
    },
    "name": "svc_promoted_build_info_sample",
    "pipelineSourceBranch": null,
    "projectIntegrationId": 65,
    "typeCode": 2018,
    "latestResourceVersionId": 2633,
    "isDeleted": false,
    "deletedAt": null,
    "isConsistent": true,
    "isInternal": false,
    "syntaxVersion": "v1.0",
    "nextTriggerTime": null
  }
]
```

**Response Codes:**

200: Success

### 6.17.2 | Get Resources by ID

**Description:** Gets a single resource for the supplied numeric id.

**Security:** Requires a valid user

**Usage:** GET api/v1/resources/:resourceId

**Produces:** application/json

**Sample Response:**

```
GET api/v1/resources/2019
{
  "ymlConfigPropertyBag": {
    "integrationName": "art",
    "integrationAlias": "sourceArtifactory"
  },
  "systemPropertyBag": {},
  "staticPropertyBag": {},
  "yml": {
    "name": "svc_build_info_sample",
    "type": "BuildInfo",
    "configuration": {
      "sourceArtifactory": "art",
      "buildName": "svc_build",
      "buildNumber": 1
    }
  },
  "id": 2019,
  "name": "svc_build_info_sample",
  "pipelineSourceBranch": null,
  "projectIntegrationId": 65,
  "typeCode": 2018,
  "latestResourceVersionId": 2634,
  "projectId": 1,
  "pipelineSourceId": 1181,
  "isDeleted": false,
  "deletedAt": null,
  "isConsistent": true,
  "isInternal": false,
  "syntaxVersion": "v1.0",
  "nextTriggerTime": null,
  "createdAt": "2020-02-23T00:42:48.028Z",
  "updatedAt": "2020-02-23T00:42:52.946Z"
}
```

**Response Codes:**

200: Success

404: No resource is found for the supplied id.

## 6.18 | RESOURCE VERSIONS

### 6.18.1 | Get Resource Versions

**Description:** Returns a collection of resourceVersions entities. Filter criteria can be supplied via query string parameters.

**Security:** Requires a valid user

**Usage:** GET /v1/resourceVersions

# JFrog REST APIs Displayed in the header

Produces: application/json

Parameters:

Query String Parameters:

Parameter	Type	Description
resourceVersionIds	String	A filter on the list based on the `id` property of the resourceVersions. Expects a comma separated string of ids.
resourceIds	String	A filter on the list based on the `resourceId` property of the resourceVersions. Expects a comma separated string of resourceIds.
createdByStepIds	String	A filter on the list based on the `createdByStepId` property of the resourceVersions. Expects a comma separated string of createdByStepIds.
createdByRunIds	String	A filter on the list based on the `createdByRunId` property of the resourceVersions. Expects a comma separated string of createdByRunIds.
pipelineSourceIds	String	A filter on the list based on the `pipelineSourceId` property of the resourceVersions. Expects a comma separated string of pipelineSourceIds.
sortBy	String	The resourceVersion properties to sort the results by. Expects a comma separated list of sorters.
sortOrder	Integer	A sort order based on the `sortBy` defined. If `1`, sorts the list in ascending order. If `-1`, sorts the list in descending order.
limit	Integer	A limit on the number of resourceVersions returned.
skip	Integer	A cursor for use in pagination. `skip` defines the number of resourceVersions skipped.

Request Parameters: Ignored

Response Body:

An array of resourceVersions that satisfy all of the supplied query parameters. Returns all resourceVersions if no query parameters are supplied.

```
[  
 {  
   "contentPropertyBag": {  
     "path": "tla/ymlTest",  
     "sha": "9ddc1f76iy8076j83b4601493ebc7e",  
     "shaData": {  
       "providerDomain": "github.com",  
       "branchName": "master",  
       "isPullRequest": false,  
       "isPullRequestClose": false,  
       "pullRequestNumber": null,  
       "pullRequestBaseBranch": null,  
     }  
   }  
 }
```

# JFrog REST APIs Displayed in the header

```
"commitSha": "9ddc1f76iy8076j83b4601493ebc7e",
"beforeCommitSha": "57bc23e5ba30a7ijh9087jhb7755e31f3",
"commitUrl": "https://github.com/tla/ymlTest/commit/9ddc1f76iy8076j83b4601493ebc7e",
"commitMessage": "Update pipelines.yml",
"baseCommitRef": "",
"headPROrgName": "",
"compareUrl": "",
"https://github.com/tla/ymlTest/compare/57bc23e5ba30a7ijh9087jhb7755e31f3...9ddc1f76iy8076j83b4601493ebc7e",
"skipDecryption": false,
"isGitTag": false,
"gitTagName": null,
"gitTagMessage": null,
"isRelease": false,
"releaseName": null,
"releaseBody": null,
"releasedAt": null,
"isPrerelease": false,
"pullRequestRepoFullName": null,
"changeId": null,
"changeSha": null,
"eventType": null,
"patchSetNumber": null,
"changeSubject": null,
"providerSshPort": null,
"changeOwner": {},
"providerUrl": null,
"committer": {
    "email": "noreply@github.com",
    "login": "web-flow",
    "displayName": "GitHub",
    "avatarUrl": "https://avatars3.githubusercontent.com/u/13454447?v=4"
},
"lastAuthor": {
    "email": "speedblaze@gmail.com",
    "login": "ChaitanyaVootla",
    "displayName": "Vootla Chaitanya",
    "avatarUrl": "https://avatars0.githubusercontent.com/u/8678710?v=4"
},
"triggeredBy": {}
},
"commitSha": "9ddc1f76iy8076j83b4601493ebc7e",
"isPullRequest": false,
"isPullRequestClose": false,
"pullRequestNumber": null,
"branchName": "master",
"pullRequestBaseBranch": null,
"beforeCommitSha": "57bc23e5ba30a7ijh9087jhb7755e31f3",
"commitUrl": "https://github.com/ChaitanyaVootla/ymlTest/commit/9ddc1f76iy8076j83b4601493ebc7e",
"commitMessage": "Update pipelines.yml",
"baseCommitRef": "",
"compareUrl": "",
"https://github.com/ChaitanyaVootla/ymlTest/compare/57bc23e5ba30a7ijh9087jhb7755e31f3...9ddc1f76iy8076j83b4601493ebc7e",
"isGitTag": false,
"gitTagName": null,
"gitTagMessage": null,
"isRelease": false,
"releaseName": null,
"releaseBody": null,
"releasedAt": null,
"isPrerelease": false,
"lastAuthorLogin": "tla",
"lastAuthorEmail": "speze@gmail.com",
"committerLogin": "web-flow"
},
"id": 14,
"projectId": 1,
"pipelineSourceId": 2,
"resourceId": 21,
"createdByStepId": null,
"createdByRunId": null,
```

## JFrog REST APIs Displayed in the header

```
        "createdAt": "2021-01-11T05:50:04.598Z",
        "updatedAt": "2021-01-11T05:50:04.598Z"
    }
]
```

### Response Codes:

200: Success

## 6.18.2 | Get Resource Versions by ID

**Description:** Gets a single resource version for the supplied numeric id.

**Security:** Requires a valid user

**Usage:** GET /v1/resourceVersions/:id

**Produces:** application/json

### Sample Response:

```
GET api/v1/resourceVersions/14
{
    "contentPropertyBag": {
        "path": "tla/ymlTest",
        "sha": "9ddc1f7655f2cc9ae55cfhdf98erahjsdf493ebc7e",
        "shaData": {
            "providerDomain": "github.com",
            "branchName": "master",
            "isPullRequest": false,
            "isPullRequestClose": false,
            "pullRequestNumber": null,
            "pullRequestBaseBranch": null,
            "commitSha": "9ddc1f7655f2cc9ae55cfhdf98erahjsdf493ebc7e",
            "beforeCommitSha": "57bc23e5ba30a775asd435f0e93d07755e31f3",
            "commitUrl": "https://github.com/ChaitanyaVootla/ymlTest/commit/9ddc1f7655f2cc9ae55cfhdf98erahjsdf493ebc7e",
            "commitMessage": "Update pipelines.yml",
            "baseCommitRef": "",
            "headPROrgName": "",
            "compareUrl": "https://github.com/ChaitanyaVootla/ymlTest/compare/57bc23e5ba30a775asd435f0e93d07755e31f3...9ddc1f7655f2cc9ae55cfhdf98erahjsdf493ebc7e",
            "skipDecryption": false,
            "isGitTag": false,
            "gitTagName": null,
            "gitTagMessage": null,
            "isRelease": false,
            "releaseName": null,
            "releaseBody": null,
            "releasedat": null,
            "isPrerelease": false,
            "pullRequestRepoFullName": null,
            "changeId": null,
            "changeSha": null,
            "eventType": null,
            "patchSetNumber": null,
            "changeSubject": null,
            "providerSshPort": null,
            "changeOwner": {},
            "providerUrl": null,
            "committer": {
                "email": "noreply@github.com",
                "login": "web-flow",
                "displayName": "GitHub",
                "avatarUrl": "https://avatars3.githubusercontent.com/u/19567447?v=4"
            },
            "lastAuthor": {
                "email": "spesdfze@gmail.com",

```

## JFrog REST APIs Displayed in the header

```
"login": "ChaitanyaVootla",
"displayName": "Vootla Chaitanya",
"avatarUrl": "https://avatars0.githubusercontent.com/u/8767810?v=4"
},
"triggeredBy": {}
},
"commitSha": "9ddc1f7655f2cc9ae55cf9e5d83b4601493ebc7e",
"isPullRequest": false,
"isPullRequestClose": false,
"pullRequestNumber": null,
"branchName": "master",
"pullRequestBaseBranch": null,
"beforeCommitSha": "57bc23e5ba30a775asd435f0e93d07755e31f3",
"commitUrl": "https://github.com/tla/ymlTest/commit/9ddc1f7655f2cc9ae55cfhdf98erahjsdf493ebc7e",
"commitMessage": "Update pipelines.yml",
"baseCommitRef": "",
"compareUrl":
"https://github.com/tla/ymlTest/compare/57bc23e5ba30a775asd435f0e93d07755e31f3...9ddc1f7655f2cc9ae55cfhdf98erahjsdf493ebc7e"
,
"isGitTag": false,
"gitTagName": null,
"gitTagMessage": null,
"isRelease": false,
"releaseName": null,
"releaseBody": null,
"releasedAt": null,
"isPrerelease": false,
"lastAuthorLogin": "tla",
"lastAuthorEmail": "speedblaze@gmail.com",
"committerLogin": "web-flow"
},
"id": 14,
"projectId": 1,
"pipelineSourceId": 2,
"resourceId": 21,
"createdByStepId": null,
"createdByRunId": null,
"createdAt": "2021-01-11T05:50:04.598Z",
"updatedAt": "2021-01-11T05:50:04.598Z"
}
```

### Response Codes:

200: Success

404: No resource version is found for the supplied id.

## 6.19 | STEPS

### 6.19.1 | Trigger Pipelines Steps

**Description:** Trigger a pipeline step based on step Id.

**Security:** Requires a valid user

**Usage:** POST api/v1/pipelineSteps/:pipelineStepId/trigger

**Produces:** application/json

### URL Parameters:

# JFrog REST APIs Displayed in the header

Parameter	Type	Description	Required/Optional
pipelineStepId	Integer	Numeric pipeline step Id.	Required

## Request Parameters:

Parameter	Type	Description	Required/Optional
reset	Boolean	Trigger a step without any cache.	Optional
overrideVersions	String	The resource version you want to use for the run. It takes two values:  • <b>resourceId</b> : The numeric Id of the resource.  • <b>resourceVersionId</b> : The numeric Id of the resource version to be used.	Optional
injectedPipeEnvs	String	The environment variables declared here are available for all the steps in the pipeline.	Optional
injectedEnvs	String	The environment variables declared here apply only to the step that is being directly triggered.	Optional

## Sample Request:

```
{
  "reset": true,
  "overrideVersions": [
    {
      "resourceId": 123,
      "resourceVersionId": 999
    }
  ],
  "injectedPipeEnvs": [
    {
      "key": "foo",
      "value": "bar"
    }
  ],
  "injectedEnvs": [
    {
      "key": "string1",
      "value": "string1"
    },
    {
      "key": "string2",
      "value": "string2"
    }
  ]
}
```

## Sample Response:

**POST /pipelines/api/v1/pipelineSteps/136/trigger**

```
{
  "yamlConfigPropertyBag": {},
```

## JFrog REST APIs Displayed in the header

```
"ymlExecPropertyBag": {},  
"yml": {},  
"id": 190,  
"name": "promote",  
"masterResourceId": null,  
"typeCode": 2007,  
"latestStepId": 1098,  
"projectId": 1,  
"pipelineSourceId": 47,  
"pipelineId": 73,  
"isDeleted": false,  
"deletedAt": null,  
"isConsistent": true,  
"isStale": false,  
"staleAt": null,  
"isPaused": false,  
"createdBy": "1",  
"updatedBy": "1",  
"createdAt": "2022-02-01T18:47:49.133Z",  
"updatedAt": "2022-02-10T00:17:53.697Z"  
}
```

### Response Codes:

400: If pipelineStepId is not an integer or reset is in the request body and not a Boolean.

404: If no pipelineStep is found for the pipelineStepId.

### 6.19.2 | Get Steps

**Description:** Gets a collection of step. Filter criteria can be supplied via query string parameters.

**Security:** Requires bearer token as authentication header and the token used needs to be of a valid user.

**Usage:** GET api/v1/steps

**Consumes:** application/json

#### Query Parameters:

Parameter	Data Type	Description
limit	integer	Optional. A limit on the number of steps returned.
skip	integer	Optional. A cursor for use in pagination. skip defines the number of steps skipped
pipelineIds	string	Optional. Comma separated list of pipeline ids for which runs are being retrieved
stepIds	string	Optional. Comma separated list of step ids for filtering
projectIds	string	Optional. Comma separated list of project ids for filtering
runIds	string	Optional. Comma separated list of run ids for filtering

# JFrog REST APIs Displayed in the header

Parameter	Data Type	Description
pipelineSourceIds	string	Optional. Comma separated list of pipeline source ids for filtering
pipelineStepIds	string	Optional. Comma separated list of pipeline step ids for filtering
names	string	Optional. Comma separated list of name properties for filtering
statusCodes	string	Optional. Comma separated list of step status codes for filtering
affinityGroups	string	Optional. Comma separated list of step affinity groups for filtering
groupInProgress	boolean	Optional. Default is false. Filter based on the groupInProgress property of the resource
timeoutBefore	string	Optional. Selects steps with timeoutAt before the given date-time.
startedBefore	string	Optional. Selects steps with startedAt before the given date-time.
startedAfter	string	Optional. Selects steps with startedAt after the given date-time.
endedBefore	string	Optional. Selects steps with endedAt before the given date-time.
endedAfter	string	Optional. Selects steps with endedAt after the given date-time.
sortByDependency	string	Optional. Sort the steps in the execution order. <b>Note</b> Requires projectId parameter. <b>Note</b> In the case of parallel steps, this is the anticipated order and it can differ with the available node capacity. When there is insufficient node capacity to run all parallel steps, any one of the steps can be queued randomly unless priority is defined in the pipeline YAML.

**Produces:** application/json

**Sample Usage:**

```
GET api/v1/steps?typeCode=2007&limit=1
[
  {
    "configPropertyBag": {
      "inputSteps": [
        {
          "name": "step_3"
        },
        ...
      ]
    }
  }
]
```

## JFrog REST APIs Displayed in the header

```
{  
    "name": "step_4"  
}  
,  
"environmentVariables": [  
    {  
        "key": "myReadEnvVariable",  
        "value": "hello",  
        "isReadOnly": true  
    }  
,  
"nodePool": "u16",  
"timeoutSeconds": 3600,  
"runtime": {  
    "type": "image",  
    "image": {  
        "imageName": "docker.bintray.io/jfrog/pipelines-u16node",  
        "imageTag": "10.18.0"  
    }  
},  
"execPropertyBag": {  
    "onExecute": [  
        "echo \\"step 5\\""  
    ]  
},  
"id": 508,  
"pipelineId": 97,  
"pipelineSourceId": 129,  
"pipelineStepId": 192,  
"projectId": 1,  
"name": "step_5",  
"runId": 232,  
"statusCode": 4008,  
"typeCode": 2007,  
"affinityGroup": "step_5",  
"groupInProgress": false,  
"pendingLogsComplete": true,  
"isConsoleArchived": true,  
"fileStoreProvider": null,  
"pipelineStateArtifactName": null,  
"triggeredByResourceVersionId": null,  
"triggeredByStepId": null,  
"triggeredByIdentityId": 3,  
"triggeredAt": "2020-01-17T19:12:22.387Z",  
"timeoutAt": null,  
"readyAt": null,  
"queuedAt": null,  
"endedAt": "2020-01-17T19:12:49.800Z",  
"startedAt": null,  
"externalBuildId": null,  
"externalBuildUrl": null,  
"staticPropertyBag": null,  
"createdAt": "2020-01-17T19:12:22.419Z",  
"updatedAt": "2020-01-17T19:13:04.535Z"  
}  
]  
]
```

### Response Codes:

200: Success

### 6.19.3 | Get Step by ID

**Description:** Gets a single step for the supplied ID.

**Security:** Requires bearer token as authentication header and the token used needs to be of a valid user.

# JFrog REST APIs Displayed in the header

**Usage:** GET api/v1/steps/:stepId

**Consumes:** application/json

**Sample Response:**

```
GET api/v1/steps/55
{
  "configPropertyBag": {
    "runtime": {
      "type": "host"
    },
    "affinityGroup": "together",
    "inputSteps": [
      {
        "name": "ag_step_1"
      }
    ],
    "environmentVariables": [
      {
        "key": "MY_MESSAGE",
        "value": "\"Hello World!\"",
        "isReadOnly": true
      }
    ],
    "nodePool": "u16",
    "timeoutSeconds": 3600,
    "isOnDemand": false,
    "instanceSize": null,
    "nodeName": "1"
  },
  "execPropertyBag": {
    "onExecute": [
      "pwd",
      "cat myoutput.txt"
    ]
  },
  "id": 55,
  "pipelineId": 62,
  "pipelineSourceId": 109,
  "pipelineStepId": 73,
  "projectId": 1,
  "name": "ag_step_2",
  "runId": 41,
  "statusCode": 4003,
  "typeCode": 2007,
  "affinityGroup": "together",
  "groupInProgress": false,
  "pendingLogsComplete": true,
  "isConsoleArchived": true,
  "fileStoreProvider": null,
  "pipelineStateArtifactName": null,
  "triggeredByResourceVersionId": null,
  "triggeredByStepId": null,
  "triggeredByIdentityId": 3,
  "triggeredAt": "2020-01-06T21:45:37.911Z",
  "timeoutAt": "2020-01-06T22:45:50.636Z",
  "readyAt": null,
  "queuedAt": "2020-01-06T21:45:49.641Z",
  "endedAt": "2020-01-06T21:45:51.613Z",
  "startedAt": "2020-01-06T21:45:50.636Z",
  "externalBuildId": null,
  "externalBuildUrl": null,
  "staticPropertyBag": null,
  "createdAt": "2020-01-06T21:45:37.951Z",
  "updatedAt": "2020-01-06T21:46:06.296Z"
}
```

**Response Codes:**

200: Success

404: No step was found for the supplied ID

#### 6.19.4 | Approval Response

**Description:** Approve or reject a step. The request returns one of the following status codes:

- **4005:** After the Pending Approval step is approved the step moves to Waiting status (and will later get picked up for execution).
- **4013:** After the Pending Approval step is rejected the step moves to Canceling status (and will later get canceled).

**Security:** Requires a valid user

**Usage:** POST api/v1/steps/{id}/approvalResponse

**Consumes:** application/json

**Request Parameters:**

Parameter	Data Type	Description	Required/Optional
response	String	Approval response, either approved or rejected.	Required
comment	String	Approval comment. Max length: 100 characters.	Optional

**Sample Request:**

**POST api/v1/steps/1/approvalResponse**

```
{  
  "response": "approved",  
  "comment": "my comment"  
}
```

**Sample Response:**

**POST api/v1/steps/1/approvalResponse**

```
{  
  "stepId": 1,  
  "updatedStatusCode": 4005  
}
```

**Response Codes:**

200: Success

404: Invalid response type (should be approved/rejected)

404: Invalid step status (should be Pending Approval 4022)

### 6.20 | STEP CONSOLES

#### 6.20.1 | Get Step Consoles

**Description:** Gets step consoles belonging to a particular step.

**Security:** Requires bearer token as authentication header and the token used needs to be of a valid user.

**Usage:** GET api/v1/steps/{stepId}/consoles

**Consumes:** application/json

# JFrog REST APIs Displayed in the header

## URL Parameters:

Parameter	Data Type	Description	Required/Optional
stepId	Integer	Id of the step.	Required

## Query Parameters:

Parameter	Data Type	Description	Required/Optional
limit	Integer	A limit on the number of consoles returned.	Optional
skip	Integer	A cursor for use in pagination. This parameter defines the number of consoles skipped.	Optional
fetchAll	Boolean	If the caller is a super user, ignores if the maximum number of consoles has been exceeded. Does not return a console log object if there are no logs, and does not group logs.	Optional
download	Boolean	Downloads the step consoles as a text file.	Optional
sortBy	String	The stepConsole properties by which to sort the results. Expects a comma separated list of sorters. Ignored if download is true.	Optional
sortOrder	Integer	A sort order based on the sortBy defined. If '1', sorts the list in ascending order. If '-1', sorts the list in descending order. Ignored if download is true.	Optional

**Produces:** application/json

## Sample Usage:

**GET** api/v1/steps/3/consoles

```
{
  "root": [
    {
      "consoleId": "3bd3303a-1c33-45fc-849a-38e7097918b2",
      "isSuccess": null,
      "isShown": true,
      "parentConsoleId": "root",
      "stepId": 3,
      "pipelineId": 3,
      "timestamp": 1612940807666334,
      "timestampEndedAt": null,
      "type": "grp",
      "message": "Step skipped",
      "createdAt": "2021-02-10T07:06:47.724Z",
      "updatedAt": "2021-02-10T07:06:47.725Z"
    },
    {
      "consoleId": "3bd3303a-1c33-45fc-849a-38e7097918b2",
      "isSuccess": false,
      "isShown": false
    }
  ]
}
```

## JFrog REST APIs Displayed in the header

```
"isShown": true,  
"parentConsoleId": "root",  
"stepId": 3,  
"pipelineId": 3,  
"timestamp": 1612940807668168,  
"timestampEndedAt": 1612940807668171,  
"type": "grp",  
"message": "Step skipped",  
"createdAt": "2021-02-10T07:06:47.730Z",  
"updatedAt": "2021-02-10T07:06:47.730Z"  
}  
],  
"3bd3303a-1c33-45fc-849a-38e7097918b2": [  
{  
    "consoleId": "26b01962-2b9c-4b08-943d-32e48195510c",  
    "isSuccess": null,  
    "isShown": true,  
    "parentConsoleId": "3bd3303a-1c33-45fc-849a-38e7097918b2",  
    "stepId": 3,  
    "pipelineId": 3,  
    "timestamp": 1612940807667063,  
    "timestampEndedAt": null,  
    "type": "cmd",  
    "message": "Info",  
    "createdAt": "2021-02-10T07:06:47.733Z",  
    "updatedAt": "2021-02-10T07:06:47.733Z"  
,  
{  
    "consoleId": "26b01962-2b9c-4b08-943d-32e48195510c",  
    "isSuccess": false,  
    "isShown": false,  
    "parentConsoleId": "3bd3303a-1c33-45fc-849a-38e7097918b2",  
    "stepId": 3,  
    "pipelineId": 3,  
    "timestamp": 1612940807667678,  
    "timestampEndedAt": 1612940807667688,  
    "type": "cmd",  
    "message": "Info",  
    "createdAt": "2021-02-10T07:06:47.737Z",  
    "updatedAt": "2021-02-10T07:06:47.737Z"  
}  
],  
"26b01962-2b9c-4b08-943d-32e48195510c": [  
{  
    "consoleId": "67d96fe8-41c0-4cea-908b-ab7e905a393e",  
    "isSuccess": null,  
    "isShown": true,  
    "parentConsoleId": "26b01962-2b9c-4b08-943d-32e48195510c",  
    "stepId": 3,  
    "pipelineId": 3,  
    "timestamp": 1612940807667567,  
    "timestampEndedAt": null,  
    "type": "msg",  
    "message": "Skipping step as it has unsuccessful dependencies.",  
    "createdAt": "2021-02-10T07:06:47.737Z",  
    "updatedAt": "2021-02-10T07:06:47.737Z"  
}  
]
```

### Response Codes:

200: Success

## 6.21 | STEP TEST REPORTS

## JFrog REST APIs Displayed in the header

### 6.21.1 | Get Step Test Reports

**Description:** Gets a collection of stepTestReport entities. Filter criteria can be supplied via query string parameters.

**Security:** Requires a valid user

**Usage:** GET api/v1/stepTestReports

**Consumes:** application/json

#### Query Parameters

Parameter	Data Type	Description
stepIds	Integer	Comma-separated list of numeric step Ids.
projectIds	Integer	Comma-separated list of numeric project Ids.
pipelineSourceIds	Integer	Comma-separated list of numeric project source Ids.

**Produces:** application/json

#### Sample Response:

A list of stepTestReports that satisfy all the supplied query parameters. Returns no stepTestReports if no query parameters are supplied.

```
[  
  {  
    "errorDetails": [],  
    "failureDetails": [],  
    "durationSeconds": 2,  
    "totalTests": 10,  
    "totalPassing": 10,  
    "totalFailures": 0,  
    "totalErrors": 0,  
    "totalSkipped": 0,  
    "id": 5,  
    "projectId": 1,  
    "stepId": 59,  
    "updatedAt": "2019-04-12T09:33:00.011Z",  
    "createdAt": "2019-04-12T09:33:00.011Z"  
  }  
]
```

#### Response Codes:

200: Success

### 6.21.2 | Get Step Test Reports by Step Id

**Description:** Gets a collection of step test report files.

**Security:** Requires a valid user

**Usage:** GET api/v1/steps/:stepId/stepTestReports

**Consumes:** application/json

#### Query Parameters

Parameter	Data Type	Description
stepIds	Integer	Comma separated list of numeric step ids

**Produces:** application/json

**Sample Response:**

```
[
  {
    "permissions": 600,
    "path": "testreport.xml",
    "contents": "contents of testreport.xml"
  }
]
```

**Response Codes:**

200: Success

400: If an error occurs while reading the files

404: If the step does not exist.

## 6.22 | PIPELINE STEPS

### 6.22.1 | Get Pipelines Steps

**Description:** Gets a collection of pipelineSteps entities. Filter criteria can be supplied via query string parameters.

**Security:** Requires a valid user

**Usage:** GET api/v1/pipelineSteps

**Consumes:** application/json

**Query Parameters:**

Parameter	Data Type	Description
includeDeleted	Boolean	A filter on the list based on the isDeleted property. Default is false.
projectIds	Integer	Comma separated list of numeric project ids
names	String	Comma separated list of project names
pipelineSourceIds	Integer	Comma separated list of numeric pipeline source ids
pipelineStepIds	Integer	Comma separated list of numeric pipeline step ids
isDeleted	Boolean	A filter on the list based on the includeDeleted property. If includeDeleted is true, this is ignored.

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Parameter	Data Type	Description
deletedBefore	String	A date type entry to get previously deleted pipelineSteps.
pipelineIds	Integer	Comma separated list of numeric pipeline ids.
typeCodes	String	Comma separated list of numeric typeCodes.
sortByDependency	String	Optional. Sort the steps in the execution order.  <b>Note</b>  Requires projectId parameter.  <b>Note</b>  In the case of parallel steps, this is the anticipated order and it can differ with the available node capacity. When there is insufficient node capacity to run all parallel steps, any one of the steps can be queued randomly unless priority is defined in the pipeline YAML.

**Request Parameters:** Ignored

**Produces:** application/json

**Sample Usage:**

```
[
  {
    "ymlConfigPropertyBag": {
      "integrations": [
        {
          "name": "s_bitbucketServer"
        }
      ],
      "environmentVariables": {
        "normal": {}
      }
    },
    "yml": {
      "name": "api_PipelineSteps",
      "type": "Bash",
      "configuration": {
        "integrations": [
          {
            "name": "s_bitbucketServer"
          }
        ]
      },
      "id": 8,
      "name": "api_PipelineSteps",
      "typeCode": 2007,
      "latestStepId": null,
      "projectId": 1,
      "pipelineSourceId": 6,
      "pipelineId": 5,
      "isDeleted": false,
      "deletedAt": null,
      "isConsistent": true,
      "isStale": false,
      "staleAt": null,
    }
  }
]
```

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```
"isPaused": false,  
"createdBy": "1",  
"updatedBy": "1",  
"createdAt": "2019-12-10T08:42:09.317Z",  
"updatedAt": "2019-12-10T08:42:09.404Z"  
,  
{  
    "ymlConfigPropertyBag": null,  
    "ymlExecPropertyBag": null,  
    "yml": {  
        "name": "in_trigger_step",  
        "type": "bash"  
    },  
    "id": 9,  
    "name": "my_step",  
    "typeCode": 2007,  
    "latestStepId": null,  
    "projectId": 1,  
    "pipelineSourceId": 6,  
    "pipelineId": 5,  
    "isDeleted": false,  
    "deletedAt": null,  
    "isConsistent": false,  
    "isStale": false,  
    "staleAt": null,  
    "isPaused": false,  
    "createdBy": "3",  
    "updatedBy": "3",  
    "createdAt": "2019-12-10T08:42:09.742Z",  
    "updatedAt": "2019-12-10T08:42:09.742Z"  
}  
]  
]
```

### Response Codes:

200: Success

### 6.22.2 | Get Pipeline Step by ID

**Description:** Gets a single pipeline step for the supplied numeric id..

**Security:** Requires a valid user

**Usage:** GET api/v1/pipelineSteps/:pipelineStepId

**Consumes:** application/json

**URL Parameters:**

Parameter	Data Type	Description
id	Integer	The numeric id of the pipeline step being requested

**Query Parameters:** Ignored

**Request Parameters:** Ignored

**Sample Response:**

```
{  
    "ymlConfigPropertyBag": {  
        "integrations": [  
            {  
                "name": "s_bitbucketServer"  
            }  
        ]  
    }  
}
```

```
        }
    ],
    "environmentVariables": {
        "normal": {}
    }
},
"ymlExecPropertyBag": {
    "onExecute": [
        "printenv",
        "echo \"hi\""
    ],
    "onComplete": []
},
"yml": {
    "name": "api_PipelineSteps",
    "type": "Bash",
    "configuration": {
        "integrations": [
            {
                "name": "s_bitbucketServer"
            }
        ]
    },
    "execution": {
        "onExecute": [
            "printenv",
            "echo \"hi\""
        ],
        "onComplete": []
    }
},
"id": 8,
"name": "api_PipelineSteps",
"typeCode": 2007,
"latestStepId": null,
"projectId": 1,
"pipelineSourceId": 6,
"pipelineId": 5,
"isDeleted": false,
"deletedAt": null,
"isConsistent": true,
"isStale": false,
"staleAt": null,
"isPaused": false,
"createdBy": "1",
"updatedBy": "1",
"createdAt": "2019-12-10T08:42:09.317Z",
"updatedAt": "2019-12-10T08:42:09.404Z"
}
```

**Response Codes:**

200: Success

404: No pipeline is found for the supplied id.

## 6.23 | STEPLETS

### 6.23.1 | Get Steplets

**Description:** Gets a collection of steplet entities. Filter criteria can be supplied using query string parameters. Returns all steplets if no query parameters are supplied.

**Security:** Requires a valid user

**Usage:** GET api/v1/steplets

**Consumes:** application/json

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**Query Parameters:**

Parameter	Data Type	Description
stepletIds	Integer	Comma separated list of numeric steplet ids
stepIds	Integer	Comma separated list of numeric step ids
projectIds	Integer	Comma separated list of numeric project ids
pipelineIds	Integer	Comma separated list of numeric pipeline ids
statusCodes	Integer	Comma separated list of numeric system code

**Request Parameters:** Ignored

**Produces:** application/json

**Sample Usage:**

```
[  
  {  
    "id": 1,  
    "projectId": 1,  
    "pipelineId": 1,  
    "stepId": 1,  
    "stepletNumber": 1,  
    "statusCode": 4008,  
    "isConsoleArchived": true,  
    "triggeredAt": "2019-04-15T06:48:43.247Z",  
    "queuedAt": null,  
    "endedAt": "2019-04-15T06:48:43.511Z",  
    "startedAt": null,  
    "createdAt": "2019-04-15T06:48:43.253Z",  
    "updatedAt": "2019-04-15T06:48:43.519Z"  
  }  
]
```

**Response Codes:**

200: Success

### 6.23.2 | Get Steplet by ID

**Description:** Gets a single steplet for the supplied numeric id.

**Security:** Requires a valid user

**Usage:** GET api/v1/steplets/:id

**Consumes:** application/json

**Query Parameters:** Ignored

**Request Parameters:** Ignored

**Sample Response:**

```
{  
  "id": 1,  
  "projectId": 1,  
  "pipelineId": 1,  
  "stepId": 1,  
  "stepletNumber": 1,  
  "statusCode": 4008,  
  "isConsoleArchived": true,  
  "triggeredAt": "2019-04-15T06:48:43.247Z",  
  "queuedAt": null,  
  "endedAt": "2019-04-15T06:48:43.511Z",  
  "startedAt": null,  
  "createdAt": "2019-04-15T06:48:43.253Z",  
  "updatedAt": "2019-04-15T06:48:43.519Z"  
}
```

**Response Codes:**

200: Success

404: No step was found for the supplied ID

## 6.24 | PIPELINE STEPLETS

### 6.24.1 | Get Steplets

**Description:** Gets a collection of steplet entities. Filter criteria can be supplied using query string parameters. Returns all steplets if no query parameters are supplied.

**Security:** Requires a valid user

**Usage:** GET api/v1/steplets

**Consumes:** application/json

**Query Parameters:**

Parameter	Data Type	Description
stepletIds	Integer	Comma separated list of numeric steplet ids
stepIds	Integer	Comma separated list of numeric step ids
projectIds	Integer	Comma separated list of numeric project ids
pipelineIds	Integer	Comma separated list of numeric pipeline ids
statusCodes	Integer	Comma separated list of numeric system code

**Request Parameters:** Ignored

**Produces:** application/json

**Sample Usage:**

```
[  
 {
```

```
"id": 1,  
"projectId": 1,  
"pipelineId": 1,  
"stepId": 1,  
"stepletNumber": 1,  
"statusCode": 4008,  
"isConsoleArchived": true,  
"triggeredAt": "2019-04-15T06:48:43.247Z",  
"queuedAt": null,  
"endedAt": "2019-04-15T06:48:43.511Z",  
"startedAt": null,  
"createdAt": "2019-04-15T06:48:43.253Z",  
"updatedAt": "2019-04-15T06:48:43.519Z"  
}  
]  
]
```

**Response Codes:**

200: Success

### 6.24.2 | Get a Pipeline Steplet

**Description:** Gets a pipeline steplet by Id.

**Security:** Requires a valid user

**Usage:** GET api/v1/pipelineSteplets/{pipelineStepletId}

**Consumes:** application/json

**URL Parameter:**

Parameter	Data Type	Description	Required/Optional
pipelineStepletId	Integer	Id of the pipeline steplet being requested.	Required

**Produces:** application/json

**Sample Response:**

```
{  
    "configPropertyBag": {  
        "environmentVariables": {  
            "key_1": "value1",  
            "key_2": "value2"  
        },  
        "runtime": {  
            "type": "image",  
            "image": {  
                "auto": {  
                    "language": "node",  
                    "versions": [  
                        "8.17.0"  
                    ]  
                }  
            }  
        },  
        "stepletNumber": 4  
    },  
    "id": 11,  
    "name": "steplet_4",  
    "pipelineStepId": 6,  
    "projectId": 1,  
    "pipelineSourceId": 1,  
}
```

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```
"pipelineId": 2,  
"isDeleted": false,  
"deletedAt": null,  
"createdBy": "2",  
"updatedBy": "2",  
"createdAt": "2020-06-09T10:50:40.548Z",  
"updatedAt": "2020-06-09T10:50:40.627Z"  
}
```

### Response Codes:

200: Success

404: If no pipeline steplet is found for the supplied id.

## 6.25 | STEPLET CONSOLES

### 6.25.1 | Get Steplet Consoles

**Description:** Gets steplet consoles belonging to a particular steplet.

**Security:** Requires a valid user

**Usage:** GET api/v1/steplets/{stepletId}/consoles

**Consumes:** application/json

**URL Parameters:**

Parameter	Data Type	Description	Required/Optional
stepletId	Integer	Id of the steplet for which console is being requested.	Required

**Query Parameters:**

Parameter	Data Type	Description	Required/Optional
limit	Integer	A limit on the number of consoles returned.	Optional
skip	Integer	A cursor for use in pagination. This parameter defines the number of consoles skipped.	Optional
fetchAll	Boolean	If the caller is a super user, ignores if the maximum number of consoles has been exceeded. Does not return a console log object if there are no logs, and does not group logs.	Optional
download	Boolean	Downloads the step consoles as a text file, including the step consoles as well as the steplet.	Optional
sortBy	String	The stepConsole properties by which to sort the results. Expects a comma separated list of sorters. Ignored if download is true.	Optional

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Parameter	Data Type	Description	Required/Optional
sortOrder	Integer	A sort order based on the sortBy defined. If '1', sorts the list in ascending order. If '-1', sorts the list in descending order. Ignored if download is true.	Optional

**Produces:** application/json

**Sample Usage:**

**GET** api/v1/steps/3/consoles

```
{
  "root": [
    {
      "consoleId": "1c8f1272-f6cb-49fe-b0a8-1da200c1ea1a",
      "isSuccess": null,
      "isShown": true,
      "parentConsoleId": "root",
      "stepletId": 1,
      "pipelineId": 3,
      "timestamp": 1612940706379471,
      "timestampEndedAt": null,
      "type": "grp",
      "message": "Queuing step",
      "createdAt": "2021-02-10T07:05:06.407Z",
      "updatedAt": "2021-02-10T07:05:06.407Z"
    },
    {
      "consoleId": "1c8f1272-f6cb-49fe-b0a8-1da200c1ea1a",
      "isSuccess": true,
      "isShown": true,
      "parentConsoleId": "root",
      "stepletId": 1,
      "pipelineId": 3,
      "timestamp": 1612940706381850,
      "timestampEndedAt": 1612940706381853,
      "type": "grp",
      "message": "Queuing step",
      "createdAt": "2021-02-10T07:05:06.414Z",
      "updatedAt": "2021-02-10T07:05:06.414Z"
    }
  ]
}
```

**Response Codes:**

200: Success

## 6.26 | STEPLET TEST REPORTS

### 6.26.1 | Get Steplet Test Reports

**Description:** Gets a collection of stepletTestReport entities. Filter criteria can be supplied using query string parameters.

**Security:** Requires a valid user

**Usage:** GET api/v1/stepletTestReports

**Consumes:** application/json

**Query Parameters**

Parameter	Data Type	Description
stepletIds	Integer	Comma separated list of numeric steplet ids
stepIds	Integer	Comma separated list of numeric step ids
projectIds	Integer	Comma separated list of numeric project ids

**Produces:** application/json

**Sample Response:**

```
[
  {
    "errorDetails": [],
    "failureDetails": [],
    "durationSeconds": 2,
    "totalTests": 10,
    "totalPassing": 10,
    "totalFailures": 0,
    "totalErrors": 0,
    "totalSkipped": 0,
    "id": 5,
    "projectId": 1,
    "stepId": 59,
    "stepletId": 59,
    "updatedAt": "2019-04-12T09:33:00.011Z",
    "createdAt": "2019-04-12T09:33:00.011Z"
  }
]
```

**Response Codes:**

200: Success

## 6.27 | MASTER RESOURCES

### 6.27.1 | Get all Master Resources

**Description:** Gets a list of all master resources.

**Security:** Requires a valid user

**Usage:** GET api/v1/masterResources

**Consumes:** application/json

**Query Parameters:**

Parameter	Type	Description	Required/Optional
masterResourceId	Integer	The numeric id of the masterResource.	Optional

**Request Parameters:** Ignored

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**Produces:** application/json

**Sample Response:**

```
[{
  "id": 1,
  "resourceType": "resource",
  "name": "foo",
  "description": "description",
  "name": "sample_node",
  "isInternal": false,
  "syntaxVersion": "latest",
  "retiredAt": null,
  "lastSyncLogs": null,
  "lastSyncEndedAt": null,
  "isSyncing": false,
  "lastSyncStartedAt": null,
  "lastSyncEndedAt": null,
  "latestSha": null,
  "namespace": "foo",
  "createdAt": "2019-04-15T05:39:36.104Z",
  "updatedAt": "2019-04-15T05:39:43.286Z"
}]
```

**Response Codes:**

200: Success

400: If the id is not an integer

404: If the masterResource is not found for the given masterResourceId

## 6.27.2 | Get a Master Resource

**Description:** Gets a master resources based on Id.

**Security:** Requires a valid user

**Usage:** GET api/v1/masterResources/{masterResourceId}

**Consumes:** application/json

**URL Parameters:**

Parameter	Type	Description	Required/Optional
masterResourceId	Integer	The numeric id of the masterResource.	Required

**Request Parameters:** Ignored

**Produces:** application/json

**Sample Response:**

```
[{
  "id": 1,
  "resourceType": "resource",
  "name": "foo",
  "description": "description",
  "name": "sample_node",
  "isInternal": false,
  "syntaxVersion": "latest",
  "retiredAt": null,
  "lastSyncLogs": null,
```

```

"lastSyncEndedAt": null,
"isSyncing": false,
"lastSyncStartedAt": null,
"lastSyncEndedAt": null,
"latestSha": null,
"namespace": "foo",
"createdAt": "2019-04-15T05:39:36.104Z",
"updatedAt": "2019-04-15T05:39:43.286Z"
}]

```

**Response Codes:**

200: Success

400: If the id is not an integer

404: If the masterResource is not found for the given masterResourceId

## 6.28 | TEMPLATES

### 6.28.1 | Add a Template

**Description:** Adds a template that can be used to create pipelines.

**Security:** Requires a valid user

**Usage:** POST api/v1/templates

**Consumes:** application/json

**URL Parameters:** None

**Request Parameters:**

Parameter	Type	Description	Required/Optional
name	String	Name of the template.	Required
namespace	String	The namespace of the template. This is part of the directory path in which the template is found in the template source.	Required
templateSourceId	Integer	The ID of the templateSource to which the template belongs.	Required
syntaxVersion	String	The semver version of the template, matching the Git tag containing the version, or 'latest'.	Required
latestSha	String	The most recently synchronized SHA for this template.	Optional

**Produces:** application/json

**Sample Request:**

```

curl -L -X POST 'https://icarus.jfrogdev.org/pipelines/api/v1/templates' \
-H 'Authorization: Bearer <token>' \
-H 'Content-Type: application/json' \
--data-raw '{
  "name": "foo",
}

```

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```
"syntaxVersion": "latest",
"templateSourceId": 4,
"namespace": "foo"
}'
```

### Sample Response:

```
{
  "id": 4,
  "name": "foo",
  "syntaxVersion": "latest",
  "templateSourceId": 4,
  "namespace": "foo",
  "isSyncing": false,
  "latestSha": null,
  "updatedAt": "2021-05-26T12:31:18.904Z",
  "createdAt": "2021-05-26T12:31:18.904Z",
  "lastSyncStatusCode": null,
  "lastSyncStartedAt": null,
  "lastSyncEndedAt": null,
  "lastSyncLogs": null,
  "retiredAt": null
}
```

### Response Codes:

200: Success

## 6.28.2 | Get all Templates

**Description:** Gets a list of templates.

**Security:** Requires a valid user

**Usage:** GET api/v1/templates

**Consumes:** application/json

**URL Parameters:** None

**Query Parameters:**

Parameter	Type	Description	Required/Optional
templateIds	String	A filter on the list based on the `id` property of the template. Expects a comma separated string of ids.	Optional
names	String	A filter on the list based on the `name` property of the template. Expects a comma separated string of names.	Optional
syntaxVersion	String	A filter on the list based on the `syntaxVersion` property of the template. Expects a comma separated string of syntaxVersions.	Optional

**Produces:** application/json

**Sample Response:**

```
[
  {
    "id": 1,
    "namespace": "jfrog",
```

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```
"name": "DockerBuildAndPush",
"syntaxVersion": "1.0.0",
"templateSourceId": null,
"latestSha": null,
"isSyncing": false,
"lastSyncStatusCode": null,
"lastSyncStartedAt": null,
"lastSyncEndedAt": null,
"lastSyncLogs": null,
"retiredAt": null,
"createdAt": "2020-10-21T00:00:00.000Z",
"updatedAt": "2020-10-21T00:00:00.000Z"
}
]
```

### Response Codes:

200: Success

### 6.28.3 | Get Templates by Id

**Description:** Gets a template based on Id.

**Security:** Requires a valid user

**Usage:** GET api/v1/templates/{templateId}

**Consumes:** application/json

**URL Parameters:**

Parameter	Type	Description	Required/Optional
templateId	Integer	Id of the template.	Required

**Produces:** application/json

**Sample Response:**

```
{
  "id": 1,
  "name": "foo",
  "name": "sample_node",
  "syntaxVersion": "latest",
  "retiredAt": null,
  "lastSyncLogs": null,
  "lastSyncEndedAt": null,
  "isSyncing": false,
  "lastSyncStartedAt": null,
  "lastSyncEndedAt": null,
  "latestSha": null,
  "namespace": "foo",
  "createdAt": "2019-04-15T05:39:36.104Z",
  "updatedAt": "2019-04-15T05:39:43.286Z"
}
```

**Response Codes:**

200: Success

## 6.29 | ENVIRONMENT VARIABLES

### 6.29.1 | Create an Environment Variable

**Description:** Create an environment variable for use at either global or project level.

**Security:** Requires a valid user

**Usage:** POST api/v1/environmentVariables

**Consumes:** application/json

**URL Parameters:** None

**Query String Parameters:** Ignored

**Request Parameters:**

Parameter	Type	Description	Required/Optional
key	String	Environment variable key.	Required
value	String	Environment variable value.	Required
scope	String	Scope of the environment variable. It can be either 'global' or 'project'.  Default value is global.	Optional
projectId	Integer	Id of the Project.	Required if scope is set as 'project'.
isReadOnly	Boolean	Sets the precedence for the environment variable.  When set as true, this cannot be overridden by other environment variables. For example, if the scope is set as global and isReadOnly is set as true, other environment variables set at Project, pipeline, and step level cannot override the global environment variable.  Default value is false.	Optional

**Produces:** application/json

**Sample Request:**

```
curl -L -X POST 'https://icarus.jfrogdev.org/pipelines/api/v1/environmentVariables' \
-H 'Authorization: Bearer <token>' \
-H 'Content-Type: application/json' \
--data-raw '{
    key: hello,
    value: world,
    scope: global,
    projectId: 2
    isReadOnly: true
}'
```

**Sample Response:**

```
{
    Id: 4,
    key: hello,
```

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```
        value: world,  
        scope: global,  
        projectId: 2  
        isReadOnly: true  
    }
```

### Response Codes:

200: Success

## 6.29.2 | Update an Environment Variable

**Description:** Update an environment variable using Id.

**Security:** Requires a valid user

**Usage:** PUT api/v1/environmentVariables/:id

**Consumes:** application/json

### URL Parameters:

Parameter	Type	Description	Required/Optional
Id	Integer	Environment variable id.	Required

**Query String Parameters:** Ignored

### Request Parameters:

Parameter	Type	Description	Required/Optional
key	String	Environment variable key.	Required
value	String	Environment variable value.	Required
scope	String	Scope of the environment variable. It can be either 'global' or 'project'.  Default value is global.	Optional
projectId	Integer	Id of the Project.	Required if scope is set as 'project'.
isReadOnly	Boolean	Sets the precedence for the environment variable.  When set as true, this cannot be overridden by other environment variables. For example, if the scope is set as global and isReadOnly is set as true, other environment variables set at Project, pipeline, and step level cannot override the global environment variable.  Default value is false.	Optional

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**Produces:** application/json

**Sample Request:**

```
curl -L -X POST 'https://icarus.jfrogdev.org/pipelines/api/v1/environmentVariables/4' \
-H 'Authorization: Bearer <token>' \
-H 'Content-Type: application/json' \
--data-raw '{
    key: hello,
    value: world,
    scope: global,
    projectId: 2
    isReadOnly: true
}'
```

**Sample Response:**

```
{
    Id: 4,
    key: hello,
    value: world,
    scope: global,
    projectId: 2
    isReadOnly: true
}
```

**Response Codes:**

200: Success

### 6.29.3 | Get an Environment Variable using Id

**Description:** Get information about an environment variable using Id.

**Security:** Requires a valid user

**Usage:** GET api/v1/environmentVariables/:id

**Consumes:** application/json

**URL Parameters:** None

**Query String Parameters:** Ignored

**Request Parameters:** None

**Produces:** application/json

**Sample Response:**

*GET /api/v1/environmentVariables/4*

```
{
    Id: 4,
    key: hello,
    value: world,
    scope: global,
    projectId: 2
    isReadOnly: true
}
```

**Response Codes:**

200: Success

### 6.29.4 | Get an Environment Variable using Query

## JFrog REST APIs Displayed in the header

**Description:** Get information about an environment variable using query.

**Security:** Requires a valid user

**Usage:** GET api/v1/environmentVariableIds=[ids]&scopes=[global or project]&keys=[]&values=[]&isReadOnly=boolean

**Consumes:** application/json

**URL Parameters:** None

**Query String Parameters:** Ignored

**Request Parameters:** None

**Produces:** application/json

**Sample Response:**

*GET /api/v1/environmentVariableIds=4&scopes=global&keys=hello&values=world&isReadOnly=true*

```
{  
    Id: 4,  
    key: hello,  
    value: world,  
    scope: global,  
    projectId: 2  
    isReadOnly: true  
}
```

**Response Codes:**

200: Success

### 6.29.5 | Delete an Environment Variable

**Description:** Delete an environment variable.

**Security:** Requires a valid user

**Usage:** DELETE api/v1/environmentVariableIds/:id

**Consumes:** application/json

**URL Parameters:** None

**Query String Parameters:** Ignored

**Request Parameters:** None

**Produces:** application/json

**Sample Response:**

*DELETE /api/v1/environmentVariableIds/4*

```
{  
    Id: 4  
}
```

**Response Codes:**

200: Success

## 7 | JFrog Curation REST APIs

### 7.1 | Get Approved/Blocked Audit Logs API

# JFrog REST APIs Displayed in the header

**Description:** An API to get Approved/Blocked audit events for packages (allowing full export).

**Note:** A synchronous REST API, to get Approved/Blocked audit events for packages.

**Since:** 3.82.x

**Security:** Requires a valid user with the "VIEW\_POLICIES" permission.

**Usage:** GET /xray/api/v1/curation/audit/packages

**Parameters:**

Parameter	Type	Mandatory/Optional	Default Value	Description
order_by	string	optional	id	Order result by column name
direction	string	optional	desc	Order direction
num_of_rows	int	optional	100	Maximum number of rows in result, Valid values 1- 2000
created_at_start	datetime	optional	@todayDate - 7 days	Get logs starting from this date , date format example 2023-08-13T22:00:00.000Z
created_at_end	datetime	optional	@todayDate	Get logs that happen before this date
offset	int	optional	0	Get data starting from this offset
include_total	boolean	optional	false	Get the total_count field in the result

**JFrog REST APIs**  
Displayed in the header

Parameter	Type	Mandatory/Optional	Default Value	Description
dry_run	boolean	optional	false	<ul style="list-style-type: none"> <li>When <code>false</code>, outputs audit events. In each event the non-dry-run policies that affected it are included(including blocking, bypassed and waived). This is what is displayed in the UI on the Blocked/approved tab.</li> <li>When <code>true</code>, outputs dry run events, one per dry run policy. This is what is displayed in the UI in the Dry Run tab.</li> </ul>
format	string	optional	json	Possible Values: <code>json</code> and <code>csv</code> . When <code>format=csv</code> is used then:

# JFrog REST APIs

## Displayed in the header

Parameter	Type	Mandatory/Optional	Default Value	Description
				<ul style="list-style-type: none"> <li>The output will be a zip file containing a csv file</li> <li><code>include_total=true</code> is not allowed</li> <li>When using <code>dry_run=false</code> (the default), the pagination counts audit events, not csv rows. Each event is flattened into possibly multiple csv rows (one row per policy in the event), so you can get more csv rows than the number of events you asked for.</li> <li>The csv file in the zip file will be called <code>audit_packages.csv</code>, or it will be called <code>audit_packages_incomplete</code> if the data according to timestamp filter doesn't fit into 500,000 events. In that case, to get all the events in the range, you can use the timestamp filter to narrow the time range so that all events in the range will fit.</li> </ul>

Status Code	Description
200	OK

# JFrog REST APIs Displayed in the header

Status Code	Description
400	Bad request
404	Not found

## Sample Request

```
GET /xray/api/v1/curation/audit/packages?  
    order_by=id&  
    direction=desc&  
    num_of_rows=2&  
    created_at_start=2023-07-20T22:00:00.000Z&  
    created_at_end=2023-07-26T22:00:00.000Z&  
    include_total=true&  
    offset=0
```

## Sample Response

```
200 OK  
{  
  "data": [  
    {  
      "id": 174,  
      "created_at": "2023-08-30T05:45:52Z",  
      "action": "blocked",  
      "package_type": "Docker",  
      "package_name": "pumevnezdiroorg/drupal",  
      "package_version": "latest",  
      "package_url": "https://registry-1.docker.io/v2/pumevnezdiroorg/drupal/manifests/latest",  
      "reason": "Policy violations",  
      "curated_repository_server_name": "",  
      "curated_repository_name": "aviv-docker1",  
      "curated_project": "default",  
      "username": "admin",  
      "user_mail": "",  
      "origin_repository_server_name": "z0curdocktest",  
      "origin_repository_name": "aviv-docker1",  
      "origin_project": "default",  
      "public_repo_url": "https://registry-1.docker.io",  
      "public_repo_name": "Docker Hub",  
      "policies": [  
        {  
          "policy_name": "onlyOfficial",  
          "policy_id": 3,  
          "dry_run": false,  
          "condition_name": "Image is not Docker Hub official",  
          "condition_category": "operational"  
        }  
      ]  
    }  
  ],  
  "meta": {  
    "total_count": 174,  
    "result_count": 1,  
    "next_offset": 1,  
    "order_by": "id",  
    "direction": "desc",  
    "num_of_rows": 1,  
    "offset": 0,  
    "include_total": true,  
    "include_explanation_and_recommendation": false,  
    "created_at_start": "2023-08-23T05:48:32Z",  
    "created_at_end": "2023-08-30T05:48:32Z"
```

```
}
```

## Python Example

```
import datetime

import requests
from requests.auth import HTTPBasicAuth

session = requests.Session()
auth = HTTPBasicAuth('username', 'password')

now = datetime.datetime.now(datetime.timezone.utc).replace(microsecond=0)
print(now.isoformat(), 'start')
last_print = now

start = datetime.datetime.now(datetime.timezone.utc).replace(microsecond=0)
curr = start - datetime.timedelta(days=30)

events_fetched = 0
while curr < start:
    offset = 0
    while True:
        now = datetime.datetime.now(datetime.timezone.utc).replace(microsecond=0)
        if now != last_print:
            last_print = now
            print(now.isoformat(), 'created_at_start: %s, events_fetched: %d, offset: %d' % (curr.isoformat(),
events_fetched, offset))
        response = session.get(
            'http://env_domain/xray/api/v1/curation/audit/packages',
            params={
                'include_total': 'false',
                'order_by': 'id',
                'direction': 'asc',
                'num_of_rows': 1000,
                'created_at_start': curr.isoformat(),
                'offset': offset,
            },
            auth=auth)
        response.raise_for_status()
        output = response.json()
        next_offset = output['meta']['next_offset']
        if not next_offset:
            break
        offset = next_offset
        events_fetched += output['meta']['result_count']
        curr += datetime.timedelta(days=7)

now = datetime.datetime.now(datetime.timezone.utc).replace(microsecond=0)
print(now.isoformat(), 'fetched %d events' % events_fetched)
```

## 8 | Mission Control REST APIs

This documentation includes all the REST APIs for JFrog Mission Control.

### 8.1 | Introduction to the Mission Control REST APIs

*Requires an Enterprise or Enterprise+ license.*

# JFrog REST APIs Displayed in the header

Mission Control exposes a rich REST API to allow fully automated management of registered JFrog Platform Deployments (JPDs). This document provides a convenient and up-to-date self-descriptive API and can be used by various tools to automate administration and configuration actions.

## Authentication

JFrog Mission Control REST APIs require authentication using **Access Tokens** as a bearer token in an authorization header (`Authorization: Bearer`) with your access token.

For example:

```
curl -H "Authorization: Bearer <Token>" http://localhost:8082/mc/api/v1/jpds
```

## Base URL

The JFrog Mission Control REST API URL are constructed as follows:

`http://<JFROG_PLATFORM_URL>/mc/api/<API-Version>`

For example:

`http://localhost:8082/mc/api/v1/`

## 8.2 | SYSTEM

### 8.2.1 | Export

**Description:** Export Mission Control data to a JSON file encrypted with the master key.

**Since:** 4.0

**Usage:** `PUT /api/v1/system/backup/export`

**Produces:** `text/plain`

**Return codes:**

204 - Encrypted JSON file created at `$JFROG_HOME /var/backup/mc/export.json`

500 - Error during export

**Sample Output :**

```
PUT /api/v1/backup/export
OK
```

### 8.2.2 | Import

**Description:** Import Mission Control data from a JSON file encrypted with the master key.

**Since:** 4.0

**Usage:** `PUT /api/v1/system/backup/import`

**Produces:** `text/plain`

**Return codes:**

204 - Successfully imported JSON file at `$JFROG_HOME /var/backup/mc/import.json` into the database. Note that, before importing you must rename the `export.json` file to `import.json`. For more information, see [Migrating the Mission Control Database to Artifactory](#).

400 - JSON file is not in the correct format

500 - Error during import

**Sample Output :**

## JFrog REST APIs Displayed in the header

```
PUT /api/v1/backup/import
OK
```

### 8.2.3 | System Health Check

**Description:** Get an indication if Mission Control is running or not. No authentication required.

**Since:** 4.0

**Usage:** GET /api/v1/system/ping

**Produces:** text/plain

**Sample Output :**

```
GET /api/v1/system/ping
OK
```

## 8.3 | JPDs

### 8.3.1 | Add JPD

**Description:** Adds a new JPD to Mission Control. In 4.x, it is no longer necessary to register individual services. When a JPD is registered, Mission Control queries for all the services installed in the JPD. This list is updated periodically and is also used to get the status of the individual services installed in the JPD. The location information is also associated with the JPD. This replaces both Sites and Services APIs in the prior versions.

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise

**Security:** Requires an admin user

**Usage:** POST /mc/api/v1/jpds

**Return codes:**

201 - Created

400 - Failed to connect to the JPD. Please verify that the JPD information provided is correct

409 - Conflicts with an existing JPD (URL, name)

**Consumes:** application/json

```
{
+ "name" : "<JPD name>",
+ "url" : "<JPD URL>", // The JPD base URL
+ "token" : "<Join Key>", // The JPD join key
+ "location" : {
+   "city_name" : "<City name>",
+   "country_code" : "<Country code>",
+   "latitude" : <Latitude>,
+   "longitude" : <Longitude>
},
- "tags" : [ "<Tag 0>", "<Tag 1>" ]
}
```

+ = mandatory; - = optional

**Sample Usage:**

```
POST /api/v1/jpds
{
  "name" : "dev-west",
  "url" : "https://artifactory-west.acme.com",
  "token" : "<Join token>",

  "tags" : [ "tag1", "tag2" ]
}
```

## JFrog REST APIs Displayed in the header

```
"location" : {  
    "city_name" : "San Francisco",  
    "country_code" : "US",  
    "latitude" : 37.7749,  
    "longitude" : 122.4194  
},  
"tags" : [ "prod", "dev" ]  
}
```

To add a legacy JPD (Artifactory 6.x)

```
POST /api/v1/jpds  
{  
+ "name" : "<JPD name>",  
+ "url" : "<JPD URL>", // The JPD base URL  
+ "username" : "<admin username>",  
+ "password" : "<admin password>",  
+ "location" : {  
+   "city_name" : "<City name>",  
+   "country_code" : "<Country code>",  
+   "latitude" : <Latitude>,  
+   "longitude" : <Longitude>  
},  
- "tags" : [ "<Tag 0>", "<Tag 1>" ]  
}
```

### 8.3.2 | Update JPD

**Description:** Updates a JPD give its id.

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise

**Security:** Requires an admin user

**Usage:** PUT /mc/api/v1/jpds/{id}

**Return codes:**

204 - No Content

400 - Failed to connect to the JPD. Please verify that the JPD information provided is correct

409 - Conflicts with an existing JPD (URL, name)

**Consumes:** application/json

```
{  
+ "name" : "<JPD name>",  
+ "url" : "<JPD URL>", // The JPD base URL  
- "token" : "<Join Key>", // The JPD join key  
+ "location" : {  
+   "city_name" : "<City name>",  
+   "country_code" : "<Country code>",  
+   "latitude" : <Latitude>,  
+   "longitude" : <Longitude>  
},  
- "tags" : [ "<Tag 0>", "<Tag 1>" ]  
}
```

+ = mandatory; - = optional

**Sample Usage:**

```
PUT /api/v1/jpds/JPD-3  
{  
  "name" : "new_name",  
  "url" : "http://new-jpd-url:8080/jpd.test",  
  "location" : {
```

```
"city_name": "Toulouse",
"country_code": "FR",
"latitude": 43.6043,
longitude": 1.4437
}
}
```

### 8.3.3 | Get JPD List

**Description:** Get a list of all JPDs, optionnaly filtering them according to tag, name, url or status. Those filters can contain the wildcard \*.

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise

**Security:** Requires an admin user

**Usage:** GET /mc/api/v1/jpds?[name={some\_name}][&tag={some\_tag}][&url={some\_url}][&status={ONLINE|OFFLINE|PARTIAL|UNAUTHORIZED}]

**Produces:** application/json

**Return codes:** 200 - Success

**Sample Usage:**

```
GET /api/v1/jpds
[ {
    "id": "JPD-1",
    "licenses": [
        {
            "expired": false,
            "license_hash": "2c2ef96d8a90ea2bb91287258dc8ab72a6b0f749",
            "licensed_to": "jfrog.com",
            "type": "ENTERPRISE_PLUS_TRIAL",
            "valid_through": "2020-02-14"
        }
    ],
    "location": {
        "city_name": "Nuuk",
        "country_code": "GL",
        "latitude": 64.18347,
        "longitude": -51.72157
    },
    "name": "HOME",
    "services": [
        {
            "status": {
                "code": "ONLINE"
            },
            "type": "ARTIFACTORY"
        },
        {
            "status": {
                "code": "ONLINE"
            },
            "type": "JFMC"
        }
    ],
    "status": {
        "code": "ONLINE",
        "message": "All services are online",
        "warnings": []
    },
    "tags": [],
    "url": "http://jpd.local/"
} ]
```

#### 8.3.4 | Get JPD by id

**Description:** Gets a JPD given its id

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise

**Security:** Requires an admin user

**Usage:** GET request to /mc/api/v1/jpds/{id}

**Consumes:** application/json

**Return codes:** 200 - Success

**Example:**

**Sample usage:**

GET /api/v1/jpds/JPD-1

```
{  
    "id": "JPD-1",  
    "licenses": [  
        {  
            "expired": false,  
            "license_hash": "2c2ef96d8a90ea2bb91287258dc8ab72a6b0f749",  
            "licensed_to": "jfrog.com",  
            "type": "ENTERPRISE_PLUS_TRIAL",  
            "valid_through": "2020-02-14"  
        }  
    ],  
    "location": {  
        "city_name": "Nuuk",  
        "country_code": "GL",  
        "latitude": 64.18347,  
        "longitude": -51.72157  
    },  
    "name": "HOME",  
    "services": [  
        {  
            "status": {  
                "code": "ONLINE"  
            },  
            "type": "ARTIFACTORY"  
        },  
        {  
            "status": {  
                "code": "ONLINE"  
            },  
            "type": "JFMC"  
        }  
    ],  
    "status": {  
        "code": "ONLINE",  
        "message": "All services are online",  
        "warnings": []  
    },  
    "tags": [],  
    "url": "http://jpd.local/"  
}
```

#### 8.3.5 | Delete JPD

**Description:** Removes a JPD from Mission Control

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise

**Security:** Requires an admin user

**Usage:** DELETE /mc/api/v1/jpds/{id}

**Return codes:**

200 - Success

204 - No content

404 - Not found

**Sample usage:**

```
DELETE /api/v1/jpds/JPD-321
```

## 8.4 | ACCESS FEDERATION

### 8.4.1 | Get Access Federation Configuration for a Single JPD

**Description:** Gets the Access Federation configuration for a specific JPD. Returns the Federation targets configured for the provided JPD.

**Since:** 4.0

**Notes:**

- Requires Artifactory Enterprise+
- Overwrites manual configuration of Access Federation in access config files.

**Security:** Requires an admin user

**Usage:** GET /mc/api/v1/federation/{JPD ID}

**Return codes:**

200 - Success

400 - The JPD is not a valid Access Federation candidate.

404 - The JPD was not found.

**Consumes:** application/json

**Sample usage:**

```
GET /api/v1/mc/api/v1/federation/JPD-1
```

```
{
  "entities": [
    "GROUPS",
    "USERS"
  ],
  "targets": [
    {
      "name": "JFP-2",
      "code": "access2JPDIId",
      "url": "http://localhost:37837/access"
    }
  ]
}
```

### 8.4.2 | Get Access Federation Configuration for All JPDs

**Description:** Gets the Access Federation configurations for all the JPDs.

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise+

**Security:** Requires an admin user

**Usage:** GET /mc/api/v1/federation?includeNonConfiguredJPDs=false

**Return codes:**

200 - Success

**Produces:** application/json

**Sample usage:**

```
GET /api/v1/mc/api/v1/federation?include_non_configured=false
[
  {
    "source": "artifactory1",
    "entities": [
      "GROUPS",
      "USERS"
    ],
    "targets": [
      {
        "name": "JPD-2",
        "code": "access2JPDIId",
        "url": "url2"
      }
    ]
  }
]
```

#### 8.4.3 | Configure Access Federation on a JPD

**Description:** Configures Access Federation for a specific JPD. As a prerequisite, the source and targets must have been configured properly for Access Federation.

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise+

**Security:** Requires an admin user

**Usage:** PUT /mc/api/v1/federation/{JPD ID}

**Return codes:**

200 - Success

400, 422 - Invalid input

404 - JPD not found or not an Artifactory

**Sample usage:**

```
PUT /api/v1/federation/
{
  "entities": [
    "USERS",
    "GROUPS"
  ],
  "targets": [
    {
      "name": "artifactory2",
      "url": "http://localhost:8080/access"
    }
  ]
}
```

**Sample response:**

```
[  
  {  
    "label": "Get configuration of artifactory1",  
    "status": "OK"  
  },  
  {  
    "label": "Get Access token from artifactory1",  
    "status": "OK"  
  },  
  {  
    "label": "Check if artifactory2 trusts artifactory1",  
    "status": "OK"  
  },  
  {  
    "label": "Send configuration to artifactory1",  
    "status": "OK"  
  },  
  {  
    "label": "Add target artifactory2 to artifactory1",  
    "status": "OK"  
  }  
]
```

#### 8.4.4 | Get Access Federation Candidates

**Description:** Gets the Access Federation candidates.

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise+

**Security:** Requires an admin user

**Usage:** GET /mc/api/v1/federation/candidates

**Return codes:**

200 - Success

**Sample usage:**

```
GET /api/v1/mc/api/v1/federation/candidates
```

#### 8.4.5 | Create Mesh

**Description:** Creates a mesh topology. As a prerequisite, the source and targets must have been configured properly for Access Federation.

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise+

**Security:** Requires an admin user

**Usage:** POST /mc/api/v1/federation/create\_mesh

**Return codes:**

200 - Success

400, 422 - Invalid input

404 - JPD not found or not an Artifactory

**Request Example:**

```
POST /api/v1/federation/create_mesh
{
  "jpd_ids": [
    "JPD-12",
    "JPD-13"
  ],
  "entities": [
    "USERS",
    "GROUPS",
    "PERMISSIONS",
    "TOKENS"
  ]
}
```

**Response Example:**

```
[ {
  "label" : "SUCCESSFUL",
  "status" : "OK"
} ]
```

## 8.5 | SUPPORT

### 8.5.1 | Create Support Bundle

#### Note

This API is deprecated and only applies for Artifactory versions 7.47 and earlier.

Starting from Artifactory version 7.49, Mission Control is integrated directly into Artifactory as a service and will be included in the Artifactory Support Bundle.

**Description:** Create a new support bundle.

**Since:** 4.0

**Security:** Requires an admin user

**Notes:** All bundle items are optional.

**Usage:** POST /mc/api/v1/system/support/bundle

#### Return codes:

202 - Support bundle is being created and will be available soon

400 - Invalid option values

403 - Unauthorized

#### Sample usage:

```
POST /api/v1/system/support/bundle
{
  "name": "JFMC support bundle",
  "description": "Support bundle generated because of issue with XYZ",
  "parameters": {
    "configuration": true,
    "system": true,
    "thread_dump": {
      "count": 1,
      "interval": 0
    },
    "logs": {
      "include": true,
      "start_date": "2018-12-25",
      "end_date": "2019-01-07"
    }
}
```

```
}
```

#### Example Output:

```
HTTP/1.1 202 Accepted
Content-Type: application/json
Server: mission-control/SNAPSHOT
Strict-Transport-Security: max-age=31536000; includeSubDomains
Content-Length: 247
{
  "id" : "SUPP20180912154413548991",
  "artifactory" : {
    "service_id" : "jfret@4754684682741",
    "bundle_url" : "http://artifactory.jfrog.com/artifactory/jfrog-support-
bundle/SUPP20180912154413548991/jfmc/test_JPD
  }
}
```

### 8.5.2 | Get Support Bundles List

#### Note

This API is deprecated and only applies for Artifactory versions 7.47 and earlier.

Starting from Artifactory version 7.49, Mission Control is integrated directly into Artifactory as a service and will be included in the [Artifactory Support Bundle](#).

**Description:** Get the list of available support bundles.

**Since:** 4.0

**Security:** Requires an admin user

**Usage:** GET /mc/api/v1/system/support/bundles

**Return codes:** 200 - Successful

403 - Unauthorized

#### Sample usage:

```
GET /mc/api/v1/system/support/bundles
{
  "count" : 2,
  "bundles" : [ {
    "name" : "A",
    "description" : "aaa",
    "id" : "1",
    "created" : "2018-10-01T09:50:11Z"
  }, {
    "name" : "B",
    "id" : "2",
    "created" : "2018-10-01T09:50:11Z"
  } ]
}
```

### 8.5.3 | Get Details of a Support Bundle

#### Note

This API is deprecated and only applies for Artifactory versions 7.47 and earlier.

Starting from Artifactory version 7.49, Mission Control is integrated directly into Artifactory as a service and will be included in the [Artifactory Support Bundle](#).

## JFrog REST APIs Displayed in the header

**Description:** Gets the details of a specific support bundle.

**Since:** 4.0

**Security:** Requires an admin user

**Usage:** GET /mc/api/v1/system/support/bundle/{id}

**Return codes:**

200 - Successful

403 - Unauthorized

404 - Supplied ID does not refer to an existing support bundle

**Sample usage:**

```
GET /mc/api/v1/system/support/bundle/SUPP20180912154413548991
{
  "name" : "issue #1234",
  "description" : "Support bundle created for issue #1234 investigation",
  "artifactory" : {
    "service_id" : "jfret@4754684682741",
    "bundle_url" : "http://artifactory.jfrog.com/artifactory/jfrog-admin-supportbundle/SUPP20180912154413548991/jfmc/01c7b8rg70nrqr1cc7k4x0yp7"
  },
  "parameters" : {
    "configuration" : true,
    "system" : true,
    "logs" : {
      "include" : true,
      "start_date" : "2018-09-30",
      "end_date" : "2018-10-01"
    },
    "thread_dump" : {
      "count" : 1,
      "interval" : 0
    }
  },
  "available" : 5,
  "created" : "2018-10-01T09:50:10Z"
}
```

### 8.5.4 | Download Support Bundle

#### Note

This API is deprecated and only applies for Artifactory versions 7.47 and earlier.

Starting from Artifactory version 7.49, Mission Control is integrated directly into Artifactory as a service and will be included in the [Artifactory Support Bundle](#).

**Description:** Downloads a support bundle as a ZIP file.

**Since:** 4.0

**Security:** Requires an admin user. You need to have the "Download folder" permission enabled on Artifactory.

**Usage:** GET /mc/api/v1/system/support/bundle/{id}/archive

**Return codes:**

200 - Successful

403 - Unauthorized (it may be that the "Download folder" option is not enabled on the Authentication Provider Artifactory)

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404 - Supplied ID does not refer to an existing support bundle or the ZIP cannot be found in the Authentication Provider Artifactory repository

## Sample usage:

```
GET /mc/api/v1/system/support/bundle/SUPP20180912154413548991/archive
```

## 8.5.5 | Delete Support Bundle

### Note

This API is deprecated and only applies for Artifactory versions 7.47 and earlier.

Starting from Artifactory version 7.49, Mission Control is integrated directly into Artifactory as a service and will be included in the Artifactory Support Bundle.

**Description:** Deletes a support bundle, along with the ZIP file in Artifactory.

**Since:** 4.0

**Security:** Requires an admin user

**Usage:** DELETE /mc/api/v1/system/support/bundle/{id}

### Return codes:

204 - Successful

403 - Unauthorized

404 - Supplied ID does not refer to an existing support bundle

## Sample usage:

```
DELETE /mc/api/v1/system/support/bundle/SUPP20180912154413548991
```

## 8.6 | LICENSE BUCKETS

### 8.6.1 | Get Buckets

**Description:** Retrieves all the license buckets in the system.

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise

**Security:** Requires an admin user

**Usage:** GET /mc/api/v1/buckets

### Return codes:

200 - Success

**Produces:** application/json

## Sample Response:

```
[  
  {  
    "identifier" : "<bucket id>",  
    "name" : "<bucket name>",  
    "size" : <number of licenses in bucket>,  
    "license_type": "<ENTERPRISE | EDGE>"  
  }  
]
```

**Sample Usage:**

GET /mc/api/v1/buckets

```
[  
 [  
 {  
 "id" : "12345",  
 "name" : "bucket-test-1",  
 "size" : 10,  
 "license_type": "ENTERPRISE"  
 },  
 {  
 "id" : "1234567",  
 "name": "bucket-test-2",  
 "size" : 5,  
 "license_type": "EDGE"  
 }  
 ]
```

### 8.6.2 | Create Bucket

**Description:** Creates a new License Bucket.

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise

**Security:** Requires an admin user

**Usage:** POST /mc/api/v1/buckets

**Return codes:**

201 - Created

409 - Name '<Bucket name>' already exists

409 - Url '<Bucket URL>' already exists

**Consumes:** application/json

**Sample usage:**

```
POST /api/v1/buckets  
{  
 "name" : "main-bucket",  
 "url" : "https://bintray.jfrog.com/license-buckets/test_jfrog.com/12345678/12345678.json?  
 expiry=1528199600307&id=ABCDEFHijklmnNoPQR",  
 "key" : "16629dbf7fefc9d179b36ba005685c2dd8376aad3278178e735da1633c6bd3c6"  
 }
```

**Sample response:**

```
{  
 "subject" : "JFrog",  
 "product_name" : "Artifactory",  
 "product_id" : 6,  
 "license_type" : "HA",  
 "issued_date" : "2018-04-12T16:02:55.549+03:00",  
 "valid_date" : "2019-04-12T16:02:54.759+03:00",  
 "quantity" : 10,  
 "signature" : "06307c34405e6ab70c5d249a7ba7cffd81947d5f",  
 "name" : "main-bucket",  
 "used" : 0,  
 "url" : "https://bintray.jfrog.com/license-buckets/test_jfrog.com/12345678/12345678.json?  
 expiry=1528199600307&id=ABCDEFHijklmnNoPQR"  
 }
```

### 8.6.3 | Upload Bucket

**Description:** Uploads and creates a new License Bucket.

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise

**Security:** Requires an admin user

**Usage:** POST /mc/api/v1/buckets

**Content-Type:** multipart/form-data

**Return codes:**

201 - Created

400 - Your bucket file could not be used. Please verify that the file is correct and that the key is valid.

409 - Name '<Bucket name>' already exists

**Consumes:** application/json

```
name | Bucket's name in Mission Control
file | Path to the bucket file
key  | Key used to decrypt the bucket
```

**Produces:** application/json

**Sample usage:**

```
curl -X POST 'http://localhost:8082/mc/api/v1/buckets' -H 'Authorization: Bearer <token>' -H 'Content-Type: multipart/form-data' -F 'file=@/tmp/728939433.json;type=application/octet-stream' -F 'key=d18fc5bc05dc3b6419ab6cd127f16cf6b57d7650ea0ef03cde130918f6f25487' -F 'name=mybucket'
```

**Sample response:**

```
{
  "subject" : "JFrog",
  "product_name" : "Artifactory",
  "product_id" : 6,
  "license_type" : "HA",
  "issued_date" : "2016-04-12T16:02:55.549+03:00",
  "valid_date" : "2017-04-12T16:02:54.759+03:00",
  "quantity" : 10,
  "identifier" : "bucket-test-1",
  "signature" : "06307c34405e6ab70c5d249a7ba7cffd81947d5f",
  "name" : "Test-bucket-name",
  "used" : 0
}
```

### 8.6.4 | Delete Bucket

**Description:** Deletes a bucket.

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise

**Security:** Requires an admin user

**Usage:** DELETE /mc/api/v1/buckets/{name}

**Return codes:** 204 - Success

**Sample usage:**

```
DELETE /api/v1/buckets/main-bucket
```

```
204 No Content
```

### 8.6.5 | Get Bucket Status

**Description:** Get the report for a specified bucket.

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise

**Security:** Requires an admin user

**Usage:** GET /api/v1/buckets/{identifier}/report

**Produces:** application/json

**Response format:**

```
{  
  "identifier": "<bucket ID>",  
  "name": "<bucket name>",  
  "size": "<total number of licenses in bucket>",  
  "valid_through": "<valid through date>",  
  "issued": "<issue date>",  
  "type": "<license type>",  
  "licenses": {  
    "used": "<Number of licenses that are in use>",  
    "available": "<Number of licenses that are in available>",  
    "max_used": "<The maximum number of licenses ever used concurrently>"  
  },  
  "jpds": [  
    {  
      "name": "<JPD name>",  
      "license_count": "<Number of licenses used by this JPD>"  
    }  
  ],  
  "split_buckets": [  
    {  
      "name": "<Split bucket name>",  
      "identifier": "<Split bucket identifier>",  
      "issued": "<Issue date>",  
      "license_count": "<Number of licenses>"  
    }  
  ],  
  "unknown_uses": [  
    {  
      "name": "<Free label of an unknown usage>",  
      "license_count": "<Number of licenses used>"  
    }  
  ],  
  "pipelines": {  
    "execution_nodes": "<Number of execution nodes for pipelines>"  
  }  
}
```

**Return codes:**

200 - Success

**Sample usage:**

**example output**

```
GET /api/v1/buckets/415921223/report  
{  
  "identifier": "266200796",  
  "name": "edge-bucket",  
  "size": 10,  
  "valid_through": "2020-02-14T00:00:00.000Z",  
  "issued": "2019-02-14T14:27:29.584Z",
```

```
"type": "EDGE_TRIAL",
"licenses": {
    "used": 0,
    "available": 10,
    "max_used": 0
}
}
```

### 8.6.6 | Attach License

**Description:** Attaches a license from a bucket to the specified JPD.

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise.

**Security:** Requires an admin user

**Usage:** POST /mc/api/v1/buckets/{name}/deploy

**Consumes:** application/json

```
{
    "jpd_id" : "<a JPD id>",
    "license_count" : <number of licenses to upload to Artifactory>
}
```

**Produces:** application/json

**Return codes:**

200 - Success

400 - "JPD with id <jpd\_id> was not found."

500 - "Cannot deploy licenses from bucket <bucket\_name> to <jpd\_id>"

**Sample usage:**

**attachlicense.json**

```
POST /api/v1/buckets/mybucket/deploy
{
    "jpd_id" : "JPD-12",
    "license_count" : 1
}
```

**Sample response:**

**example output**

```
{
    "success" : true,
    "message" : "Assigned 1 license from bucket bucket-test-1 to JPD-12."
}
```

### 8.6.7 | Acquire License

**Description:** Acquires one or several license(s) from a bucket and returns it or them. Those licenses are marked as used in the bucket report under the "Unknown usage" section.

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise

**Security:** Requires an admin user

**Usage:** POST /mc/api/v1/buckets/{name}/acquire

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**Consumes:** application/json

```
{  
    "name" : "<a free text label>",  
    "license_count" : <number of licenses to acquire>  
}
```

**Produces:** application/json

**Return codes:**

200 - Success

404 - "The entity 'LicenseBucket' with identifier '<Non existing Bucket Id>' was not found."

**Sample usage:**

**acquirelicense.json**

```
POST /api/v1/buckets/mybucket/acquire  
{  
    "name" : "team-A-license",  
    "license_count" : 1  
}
```

**Sample response:**

**example output**

```
{  
    "license_keys" : [ "<license-key>" ]  
}
```

### 8.6.8 | Release License

**Description:** Releases a license from a bucket given the JPD id or label previously used by an "acquire" call.

**Since:** 4.0

**Notes:** Requires Artifactory Enterprise

**Security:** Requires an admin user

**Usage:** POST /mc/api/v1/buckets/{name}/release

**Consumes:** application/json

```
{  
    "name" : "<a JPD id or a free text label>"  
}
```

**Produces:** application/json

**Return codes:**

204 - No Content

404 - "The entity 'LicenseBucket' with identifier '<Non existing Bucket Id>' was not found."

409 - "The Jpd must be offline before you can detach its license"

409 - "No licenses to release for bucket: <bucket id>, instance name: <jpd id or free text label>"

**Sample usage:**

**acquirelicense.json**

```
POST /api/v1/buckets/mybucket/release  
{  
    "name" : "team-A-license"  
}
```

## 9 | Artifactory Query Language

**Artifactory Query Language (AQL)** is specially designed to let you uncover any data related to the artifacts and builds stored within Artifactory. Its syntax offers a simple way to formulate complex queries that specify any number of search criteria, filters, sorting options, and output parameters. AQL is exposed as a RESTful API which uses data streaming to provide output data resulting in extremely fast response times and low memory consumption. AQL can only extract data that resides in your instance of Artifactory, so it runs on **Local Repositories, Remote Repositories Caches, and Virtual Repositories**.

From Artifactory 7.17.4, you can search within remote repositories.

Here are a few simple examples:

```
// Return all artifacts of the "artifactory" build.  
items.find({"@build.name": {"$eq": "artifactory"}})  
  
// Return all builds that have a dependency with a license that is not Apache.  
builds.find({"module.dependency.item.@license": {"$nmatch": "Apache-*"}})  
  
// Return all archives containing a file called "org/artifactory/Main.class".  
items.find({"archive.entry.name": {"$eq": "Main.class"}, "archive.entry.path": {"$eq": "org/artifactory"}})
```

Here is a slightly more complex example:

```
// Return all entries of any archive named "Artifactory.jar" from any build named "Artifactory" with  
// build number 521.  
archive.entries.find( {  
    "archive.item.name": {"$eq": "Artifactory.jar"},  
    "archive.item.artifact.module.build.name": {"$eq": "Artifactory"},  
    "archive.item.artifact.module.build.number": {"$eq": "521"}  
})
```

Here is another example that shows the full power of AQL to mine information from your repositories in a way that no other tool can match:

```
// Compare the contents of artifacts in 2 "maven+example" builds  
items.find(  
    {  
        "name": {"$match": "multi2*.jar"},  
        "$or": [  
            {  
                "$and": [  
                    {"artifact.module.build.name": {"$eq": "maven+example"}},  
                    {"artifact.module.build.number": {"$eq": "317"}  
                ]  
            },  
            {  
                "$and": [  
                    {"artifact.module.build.name": {"$eq": "maven+example"}},  
                    {"artifact.module.build.number": {"$eq": "318"}  
                ]  
            }  
        ]  
    }).include("archive.entry")
```

Click to view the output of this query...

```
{  
    "results": [ {  
        "repo": "ext-snapshot-local",  
        "path": "org/jfrog/test/multi2/3.0.0-SNAPSHOT",  
        "name": "multi2-3.0.0-20151012.205507-1.jar",  
        "type": "file",  
        "size": 1015,  
        "created": "2015-10-12T22:55:23.022+02:00",  
        "created_by": "admin",  
        "modified": "2015-10-12T22:55:23.013+02:00",  
        "modified_by": "admin",  
        "updated": "2015-10-12T22:55:23.013+02:00",  
        "version": "3.0.0-20151012.205507-1"  
    } ]
```

```
"archives" : [ {
    "entries" : [ {
        "entry.name" : "App.class",
        "entry.path" : "artifactory/test"
    }, {
        "entry.name" : "MANIFEST.MF",
        "entry.path" : "META-INF"
    } ]
}, {
    "repo" : "ext-snapshot-local",
    "path" : "org/jfrog/test/multi2/3.0.0-SNAPSHOT",
    "name" : "multi2-3.0.0-20151013.074226-2.jar",
    "type" : "file",
    "size" : 1015,
    "created" : "2015-10-13T09:42:39.389+02:00",
    "created_by" : "admin",
    "modified" : "2015-10-13T09:42:39.383+02:00",
    "modified_by" : "admin",
    "updated" : "2015-10-13T09:42:39.383+02:00",
    "archives" : [ {
        "entries" : [ {
            "entry.name" : "App.class",
            "entry.path" : "artifactory/test"
        }, {
            "entry.name" : "MANIFEST.MF",
            "entry.path" : "META-INF"
        } ]
    } ],
    "range" : {
        "start_pos" : 0,
        "end_pos" : 2,
        "total" : 2
    }
}],
```

For detailed information about AQL, refer to the following topics:

- [AQL Architecture](#)
- [AQL Syntax](#)
- [Using Fields in AQL](#)
- [AQL Execution](#)
- [AQL Entities and Fields](#)
- [Search Criteria Construction](#)
- [Specify Output Fields](#)
- [Sorting in AQL](#)
- [Display Limits and Pagination](#)
- [Using AQL With Remote Repositories](#)
- [Using AQL With Virtual Repositories](#)

## 9.1 | AQL Architecture

AQL is constructed as a set of interconnected domains as displayed in the diagram below. You may run queries only on one domain at a time, and this is referred to as the **Primary** domain of the query.

The following primary domains are supported:

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Domain	Form of Query
Item	<code>items.find(...)</code>
Build	<code>builds.find(...)</code>
	<b>Note</b>  To run queries on the build domain, you must be an admin user.
Entry	<code>archive.entries.find(...)</code>
Promotion	<code>build.promotions.find(...)</code>
Release	<code>releases.find(...)</code>
	<b>Note</b>  The Release domain refers to Release Bundles v1, which is created in JFrog Distribution, and not the Release Bundles v2 created in Artifactory. For more information, see <a href="#">Types of Release Bundles</a> .

You may use fields from other domains as part of your search criteria or to specify fields to display in the output, but in that case, you need to follow the conventions described in [Using Fields](#).

### 9.1.1 | AQL Supported Domains

AQL was introduced in Artifactory V3.5.0 with support for **Item** as a primary domain with its attached **Property**, as well as **Statistic** as a secondary domain. Later versions of Artifactory introduced additional domains that can be included in queries. The following table

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summarizes from which version each domain is accessible.

	3.5.0	4.2.0	4.7.0	6.0.0/ 7.0.0
Item	✓	✓	✓	✓
Item.Property	✓	✓	✓	✓
Statistic	✓	✓	✓	✓
Archive	✗	✓	✓	✓
Archive.Entry	✗	✓	✓	✓
Artifact	✗	✓	✓	✓
Dependency	✗	✓	✓	✓
Module	✗	✓	✓	✓
Module.Property	✗	✓	✓	✓
Build	✗	✓	✓	✓
Build.Property	✗	✓	✓	✓
Promotion	✗	✗	✓	✓
Release	✗	✗	✗	✓
Release_artifact	✗	✗	✗	✓

## Note

- To run queries on the build domain, you must be an admin user.
- The Release domain refers to Release Bundles v1, which is created in JFrog Distribution, and not the Release Bundles v2 created in Artifactory. For more information, see [Types of Release Bundles](#).

## 9.2 | AQL Syntax

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```
<domain_query>.find(<criteria>).include(<fields>).sort(<order_and_fields>).offset(<offset_records>).limit(<num_records>).distinct(<true|false>)
```

The following table describes the elements.

Element	Description
domain_query	The query corresponding to the primary domain. Must be one of <b>items</b> , <b>builds</b> or <b>entries</b> .
criteria	The search criteria in valid JSON format
fields	(Optional) There is a default set of fields for query output. This parameter lets you specify a different set of fields that should be included in the output
order_and_fields	(Optional) The fields on which the output should be sorted, and the sort order. A default set of fields and sort order is defined for each domain.
num_records	(Optional) The maximum number of records that should be extracted. If omitted, all records answering the query criteria will be extracted.
offset	(Optional) The offset from the first record from which to display results (i.e. how many results should be skipped for display)
distinct	(Optional) Disable or enable unique query results. Enabled by <b>default</b> .

From Artifactory 7.37.x, the AQL query supports disabling of unique results. This can be used to speed up the query or to get the results "as is". This replaces the previous search results for text-based AQL queries, which are unique by default (native SQL selects contain 'distinct' terms).

For example:

```
// Find all unique jars's names in artifactory
items.find({"name" : {"$match": "*.jar"} }).include("name")

// Find all jars's names in artifactory includes repeated values across different repositories.
items.find({"name" : {"$match": "*.jar"} }).include("name").distinct(false)

// Find all jar items in a repository called "my_local".
// Property "path" already unique inside single repository and unique results can be disabled for performance reason.
items.find(
    {"repo" : "my_local"},
    {"name" : {"$match": "*.jar"} }
)
.include("path")
.distinct(false)
```

### Limitation

**Sort**, **limit** , and **offset** elements only work in the following cases.

- Your query does not have an **include** element
- If you do have an **include** element, you only specify fields from the primary domain in it.

For example, in the following query, **sort**, **limit** and **offset** will not work because the primary domain is **item**, but the **include** element specifies that fields from the **artifact**, **module** and **build** domains should be displayed:

## JFrog REST APIs Displayed in the header

```
items.find().include("artifact","artifact.module","artifact.module.build")
```

### 9.3 | Using Fields in AQL

Any fields from your primary domain can be used directly anywhere in your query. If you use fields from other domains, they must be specified using a complete relation path from the primary domain.

For example, to find all items in a repository called "myrepo" you would use:

```
items.find({"repo": "myrepo"})
```

But to find all items created by modules named "mymodule" you would use:

```
items.find({"artifact.module.name" : "mymodule"})
```

And since you may also issue a query from the **build** domain, to find all builds that generated an item called "artifactory.war", you could also use:

```
builds.find({"module.artifact.item.name": "artifactory.war"})
```

### 9.4 | AQL Execution

To execute an AQL query, use the [Artifactory Query Language \(AQL\) REST API](#).

#### Artifactory Query Language (AQL)

**Description:** Flexible and high performance search using Artifactory Query Language.

**Since:** 3.5.0

**Security:** Requires an authenticated user. Certain domains/queries may require Admin access.

**Usage:** POST /api/search/aql

**Consumes:** text/plain

#### Note

For information on limiting the maximum number of AQL search results, click [here](#).

#### Sample Usage:

```
POST /api/search/aql
items.find(
{
    "repo": {"$eq": "libs-release-local"}
})
```

**Produces:** application/json

#### Sample Output:

```
{
  "results" : [
    {
      "repo" : "libs-release-local",
      "path" : "org/jfrog/artifactory",
      "name" : "artifactory.war",
      "type" : "item type",
      "size" : "75500000",
      "created" : "2015-01-01T10:10:10",
      "created_by" : "Jfrog",
      "modified" : "2015-01-01T10:10:10",
      "modified_by" : "Jfrog",
      "updated" : "2015-01-01T10:10:10"
    }
  ]
}
```

```

        }
    ],
    "range" : {
        "start_pos" : 0,
        "end_pos" : 1,
        "total" : 1,
        "limit": 5,
        "notification": "AQL query reached the search hard limit, results are trimmed."
    }
}

```

## 9.5 | AQL Entities and Fields

You may issue a **find** request according to the syntax, and configure your request to display fields from any of the domains.

Domain	Field Name	Type	Description
item	repo	String	The name of the repository in which this item is stored
item	path	String	The full path associated with this item
<b>Note</b>			
The path for folder should not include a /*, whereas for items, it is required.			
item	name	String	The name of the item
item	created	Date	The date when the item was created
item	modified	Date	File system timestamp indicating when the item was last modified
item	updated	Date	When the item was last uploaded to a repository
item	created_by	String	The name of the item owner
item	modified_by	String	The name of the last user that modified the item
item	type	Enum	The item type (file/folder/any).  If type is not specified in the query, the default type searched for is file
item	depth	Int	The depth of the item in the path from the root folder
item	original_md5	String	The item's md5 hash code when it was originally uploaded

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Domain	Field Name	Type	Description
item	actual_md5	String	The item's current md5 hash code
item	original_sha1	String	The item's sha1 hash code when it was originally uploaded
item	actual_sha1	String	The item's current sha1 hash code
item	sha256	String	<p>The item's sha256 hash code</p> <p><b>SHA-256 is supported from Artifactory version 5.5</b></p> <p>You can use AQL search only on artifacts deployed to Artifactory version 5.5 or above, or if you have migrated your database as described in <a href="#">SHA-256 Support after upgrading Artifactory to version 5.5 and above</a>.</p>
item	size	Long	The item's size on disk
item	virtual_repos	String	The virtual repositories which contain the repository in which this item is stored.
archive	Note		<p><b>Enable additional archive types</b></p> <p>The archive domain currently contains no fields</p> <p>To enable search for specific archive type, the `index=true` should be specified in the mimetypes.xml file for this archive type. See <a href="#">Configuration Files: MIME Type</a></p>
entry	name	String	The entry name
entry	path	String	The path of the entry within the repository
promotion	created	String	When the build was promoted
promotion	created_by	String	The Artifactory user that promoted the build
promotion	status	String	The status of the promotion
promotion	repo	String	The name of the repository to which the build was promoted
promotion	comment	String	A free text comment about the promotion
promotion	user	String	The CI server user that promoted the build

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Domain	Field Name	Type	Description
build	url	String	The URL of the build
build	name	String	The build name
build	number	String	The build number
build	created	Date	File system timestamp indicating when the item was last modified
build	created_by	String	The name of the user who created the build
build	modified	Date	File system timestamp indicating when the build was last modified
build	modified_by	String	The name of the last user that modified the build
build	started	Date	The build start time. The value for this field is directly taken from the relevant build's <code>build-info.json</code> file  The field is immutable, and does not change upon build promotion or build replication
property	key	String	The property key
property	value	String	The property value
stat	downloaded	Date	The last time an item was downloaded
stat	downloads	Int	The total number of downloads for an item
stat	downloaded_by	String	The name of the last user to download this item
stat	remote_downloads	Int	The total number of downloads for an item from a smart remote repository proxying the local repository in which the item resides
stat	remote_downloaded	Date	The last time an item was downloaded from a smart remote repository proxying the local repository in which the item resides
stat	remote_downloaded_by	String	The name of the last user to download this item from a smart remote repository proxying the local repository in which the item resides

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Domain	Field Name	Type	Description
stat	remote_origin	String	The address of the remote Artifactory instance along a smart remote proxy chain from which the download request originated.
stat	remote_path	String	The full path along a smart remote proxy chain through which the download request went from the origin instance to the current instance.
artifact	name	String	The name of the artifact
artifact	type	String	The type of the artifact
artifact	sha1	String	The SHA1 hash code of the artifact
artifact	md5	String	The MD5 hash code of the artifact
module	name	String	The name of the module
dependency	name	String	The name of the dependency
dependency	scope	String	The scope of the dependency
dependency	type	String	The type of the dependency
dependency	sha1	String	The SHA1 hash code of the dependency
dependency	md5	String	The MD5 hash code of the dependency
release	name	String	The name of the release bundle
release	version	String	The version of the release bundle
release	status	String	The status of the release bundle
release	created	String	The date when the release bundle was created
release	signature	String	The release bundle signature

Domain	Field Name	Type	Description
release_artifact	path	String	The release artifact full repo path

## 9.6 | Search Criteria Construction

The **criteria** element must be a valid JSON format statement composed of the criteria that specify the items that should be returned. It is essentially a compound boolean statement, and only elements for which the statement evaluates to **true** are returned by the query.

Each criterion is essentially a comparison statement that is applied either to a field or a property. Please see the full list of Comparison Operators. While each criterion may be expressed in complete general format, AQL defines shortened forms for readability as described below.

### 9.6.1 | Field Criteria

The general way to specify a criterion on a field is as follows:

```
{"<field>" : {"<comparison operator>" : "<value>"}}
```

If the query applied is to a different domain, then field names must be pre-pended by a relation path to the primary domain.

For example:

```
//Find items whose "name" field matches the expression "*test.*"
items.find({"name": {"$match" : "*test.*"}})

//Find items that have been downloaded over 5 times.
//We need to include the "stat" specifier in "stat.downloads" since downloads is a field of the stat domain and not of the item domain.
items.find({"stat.downloads": {"$gt": "5"}})

//Find items that have never been downloaded. Note that when specifying zero downloads we use "null" instead of 0.
//We need to include the "stat" specifier in "stat.downloads" since downloads is a field of the stat domain and not of the item domain.
items.find({"stat.downloads": {"$eq": null}})

//Find builds that use a dependency that is a snapshot
builds.find({"module.dependency.item.name": {"$match": "*SNAPSHOT*"}})
```

#### Fields with "Zero" value in the stat domain

Note that when searching for items that have a "zero" value in the stat domain, you should search for null, not 0. For example, as shown above, when searching for items with zero downloads you specify "null" instead of 0.

#### Short notation for Field criteria

AQL supports a short notation for search criteria on fields.

An "equals" ("\$eq") criterion on a field may be specified as follows:

```
{"<field>" : "<value>"}  
  
```

Element	Description
Example	Find items whose "name" field equals "ant-1.9.4.jar"
Regular notation	items.find({"name": {"\$eq": "ant-1.9.4.jar"}})

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Element	Description
Short notation	<code>items.find({"name": "ant-1.9.4.jar"})</code>

### 9.6.2 | Properties Criteria

Artifactory lets you attach, and search on properties in three domains: **items**, **modules**, and **builds**.

The general way to specify a criterion on a property is as follows:

```
{"@<property_key>" : {"operator" : "<property_value>"}}
```

#### Accessing the right properties

If you are specifying properties from the primary domain of your query, you may simply enter the property key and value as described above. If you are specifying properties from one of the other domains, you need to specify the full relational path to the property.

In the example below, the primary domain is the **build** domain, but we want to find builds based a property in the **item** domain, so we must specify the full path to the property:

```
builds.find({"module.artifact.item.qa_approved" : {"$ne" : "true"}})
```

Here are some examples:

```
//Find items that have been approved by QA
items.find({"qa_approved" : {"$eq" : "true"})

//Find builds that were run on a linux machine
builds.find({"os" : {"$match" : "linux*"})

//Find items that were created in a build that was run on a linux machine.
items.find({"artifact.module.build.os" : {"$match" : "linux*"}})
```

#### Short notation for properties criteria

AQL supports a short notation for search criteria on properties.

An "equals" ("\$eq") criterion on a property may be specified as follows:

```
{"@<property_key>" : "<property_value>"}
```

Element	Description
Example	Find items with associated properties named "license" with a value that equals "GPL"
Regular notation	<code>items.find({"@artifactory.licenses" : {"\$eq" : "GPL"}}</code>
Short notation	<code>items.find({"@artifactory.licenses" : "GPL"})</code>

### 9.6.3 | Compounding Criteria

Search criteria on both fields and properties may be nested and compounded into logical expressions using "\$and" or "\$or" operators. If no operator is specified, the default is \$and

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```
<criterion>={<"$and"|"$or">:[{<criterion>},{<criterion>}]}
```

### Criteria may be nested to any degree

Note that since search criteria can be nested to any degree, you may construct logical search criteria with any degree of complexity required.

Here are some examples:

```
//This example shows both an implicit "$and" operator (since this is the default, you don't have to expressly specify it, but rather separate the criteria by a comma), and an explicit "$or" operator.  
//Find all items that are files and are in either the maven-remote or my-local repositories.  
items.find({"type" : "file","$or": [{"repo" : "maven-remote", "repo" : "my-local"}]})  
  
//Find all the items that were created in a build called "my_debian_build" and whose name ends with ".deb" or all items created in a build called "my_yum_build" and whose name ends with ".rpm".  
items.find(  
    {  
        "$or":  
            [  
                {  
                    "$and":  
                        [  
                            {"artifact.module.build.name" : "my_debian_build"} ,  
                            {"name" : {"$match" : "*.*deb"}}  
                        ]  
                },  
                {  
                    "$and":  
                        [  
                            {"artifact.module.build.name" : "my_yum_build"} ,  
                            {"name" : {"$match" : "*.*rpm"}}  
                        ]  
                }  
            ]  
    }  
)  
  
//Find all items in a repository called "my_local" that have a property with a key called "license" and value that is any variant of "LGPL".  
items.find({"repo" : "my_local"},{@artifactory.licenses" : {"$match" : "*LGPL*"}})
```

### 9.6.4 | Match Criteria on a Single Property (\$msp)

A search that specifies several criteria on properties may sometimes yield unexpected results.

This is because items are frequently annotated with several properties, and as long as any criterion is true for any property, the item will be returned in a regular **find**.

But sometimes, we need to find items in which a single specific property answers several criteria. For this purpose we use the **\$msp** (**match on single property**) operator.

The fundamental difference between a regular **find** and using the **\$msp** operator is:

- **find** will return an item if **ANY** of its properties answer **ALL** of the criteria in the search term.
- **\$msp** will only return an item if at least **ONE** of its properties answers **ALL** of the criteria in the **\$msp** term.

Here is an example.

Consider two items A and B.

A has a license property with value **AGPL-V3**

B has two license properties . One is **LGPL-2.1**, and the other **LGPL-2.2**

Now let's assume we want to find items that use any variety of GPL license as long as it's NOT LGPL-2.1.

In our example we would expect to get both **Items A and B** returned since **A** has **AGPL-V3** and **B** has **LGPL-2.2**.

As a first thought, we might write our query as follows:

```
items.find({
    "@license": {"$match": "*GPL*"},
    "@license": {"$nmatch": "LGPL-2.1*"}
})
```

But this query only returns **Item A**.

Item A is returned because it clearly answers both criteria: "@license": {"\$match": "\*GPL\*"} and "@license": {"\$nmatch": "LGPL-2.1\*"}.

Item B is not returned because it has the property license=LGPL-2.1 which does not meet the criterion of "@license": {"\$nmatch": "LGPL-2.1\*"}.

If we use the **\$msp** operator as follows:

```
"items.find({
    "$msp": [
        "@license": {"$match": "*GPL*"},
        "@license": {"$nmatch": "LGPL-2.1*"}
])".
```

Then both **Item A and Item B** are returned.

Item A is returned because it has the @license property **AGPL-V3** which meets **both** the {"@license": {"\$match": "\*GPL\*"}} criterion and the {"@license": {"\$nmatch": "LGPL-2.1\*"}} criterion.

Item B is returned because it has the @license property **LGPL-2.2** which also meets **both** the {"@license": {"\$match": "\*GPL\*"}} criterion and the {"@license": {"\$nmatch": "LGPL-2.1\*"}} criterion.

## Tip

Note that the \$msp operator works equally well on all domains that have properties: **item**, **module** and **build**.

### 9.6.5 | Comparison Operators

The following table lists the full set of comparison operators.

Operator	Types	Meaning
\$ne	string, date, int, long	Not equal to
\$eq	string, date, int, long	Equals

Operator	Types	Meaning
\$gt	string, date, int, long	Greater than
\$gte	string, date, int, long	Greater than or equal to
\$lt	string, date, int, long	Less than
\$lte	string, date, int, long	Less than or equal to
\$match	string	Matches
\$nmatch	string	Does not match

For time-based operations, please also refer to Relative Time Operators.

#### 9.6.6 | Using Wildcards

To enable search using non-specific criteria, AQL supports wildcards in common search functions.

##### Use Wildcards with \$match and \$nmatch

When using the "\$match" and "\$nmatch" operators, the "\*" wildcard replaces any string and the "?" wildcard replaces a single character.

##### "Catch all" Notation on Properties

In addition to supporting "\$match" and "\$nmatch", AQL supports a notation that uses wildcards to match **any** key or **any** value on properties.

If you specify "@\*" as the property key, then it means a match on any key.

If you specify "\*" as the property value, then it means a match on any value

Element	Description
Example	Find items that have any property with a value of "GPL"
Regular notation	<code>items.find({"\$and" : [{"property.key" : {"\$eq" : "*"}}, {"property.value" : {"\$eq" : "GPL"}]}])</code>
Short notation	<code>items.find({"@*": "GPL"})</code>

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Element	Description
Example	Find any items annotated with any property whose key is "license" (i.e. find any items with a "license" property)
Regular notation	<code>items.find({"\$and": [{"property.key": {"\$eq": "license"}}, {"property.value": {"\$eq": "*"}}]})</code>
Short notation	<code>items.find({"@artifactory.licenses": "*"})</code>

## Be careful not to misuse wildcards

Wildcard characters ("\*" and "?") used in queries that do not conform to the above rules are interpreted as literals.

## Examples of Wildcard Usage

To avoid confusion, here are some examples that use the "\*" and "?" characters explaining why they are interpreted as wildcards or literals.

Query	Wildcard or Literal	Explanation	What the query returns
<code>items.find({"name": {"\$match": "ant-1.9.4.*"})}</code>	Wildcard	Wildcards on fields are allowed with the \$match operator.	All items whose name matches the expression "ant-1.9.4.*"
<code>items.find({"name": {"\$eq": "ant-1.9.4.*"})}</code>	Literal	Wildcards on fields are only allowed with the \$match and \$nmatch operators.	Only find items whose name is literally "ant-1.9.4.*"
<code>items.find({"@artifactory.licenses": "*"})</code>	Wildcard	For properties, this short notation is allowed and denotes any value	All items with a property whose key is "license"
<code>items.find({"@artifactory.licenses": "*GPL"})</code>	Literal	This is the short notation replacing the \$eq operator for properties, but it does not use the "catch all" notation for properties.	All items with a license whose value is literally "*GPL"
<code>items.find({"@artifactory.licenses": {"\$match": "*GPL*"})}</code>	Wildcard	Wildcards on properties are allowed with the \$match operator.	All items with a license matches the expression "*GPL*"

### 9.6.7 | Date and Time Format in AQL

AQL supports Date and Time formats according to a W3C profile of the ISO 8601 Standard for Date and Time Formats.

The complete date and time notation is specified as:

YYYY-MM-DDThh:mm:ss.sTZD (e.g., 2012-07-16T19:20:30.45+01:00)

Date/Time specified in partial precision is also supported: (i.e. specify just the year, or year and month, year, month and day etc.)

For example, the following query will return all items that were modified after July 16, 2012 at 30.45 seconds after 7:20pm at GMT+1 time zone:

```
//Find all the items that have been modified after 2012-07-16T19:20:30.45+01:00
items.find({"modified" : {"$gt" : "2012-07-16T19:20:30.45+01:00"}})
```

```
//Find all the builds that have were created after 2012-07-01
builds.find({"created" : {"$gt" : "2012-07-01"}})
```

For full details, please refer to the [W3C documentation](#).

### 9.6.8 | Relative Time Operators in AQL

AQL supports specifying time intervals for queries using relative time. In other words, the time interval for the query will always be relative to the time that the query is run, so you don't have to change or formulate the time period, in some other way, each time the query is run. For example, you may want to run a query over the last day, or for the time period up to two weeks ago.

Relative time is specified using the following two operators:

Operator	Description
\$before	The query is run over complete period up to specified time.
\$last	The query is run over period from the specified time until the query is run

Time periods are specified with a number and one of the following suffixes:

Time Period	Suffix
milliseconds	mills, ms
seconds	seconds, s
minutes	minutes
days	days, d
weeks	weeks, w

Time Period	Suffix
months	months, mo
years	years, y

For example, to specify five days, you could use 5d. To specify two weeks, you could use 2w.

Below are some examples using relative time operators:

```
//Find all the items that were modified during the last three days
items.find({"modified" : {"$last" : "3d"}})

//Find all the builds that were created up to two weeks ago (i.e. no later than two weeks ago)
builds.find({"created" : {"$before" : "2w"}})
```

## 9.7 | Specify Output Fields

Each query displays a default set of fields in the result set, however you have complete control this and may specify which fields to display using an optional **include** element in your query.

You can even specify to display fields from other entities related to your result set.

### 9.7.1 | Display All Fields

Use: `.include("*")`

For example:

```
//Find all items, and display all the item fields
items.find().include("*")
```

### 9.7.2 | Display Specific Fields

Each query displays a default set of fields in the output. Using the `.include` element you can override this default setting and specify any particular set of fields you want to receive in the output.

Use: `.include("<field1>", "<field2>"...)`

For example:

```
//Find all items, only display the "name" and "repo" fields
items.find().include("name", "repo")
```

You can also display specific fields from other entities associated with those returned by the query.

If you specify any field from the **item** domain, then this will override the default output setting, and only the **item** fields you expressly specified will be displayed.

If you only specify fields from the **property** or **stat** domains, then the output will display the default fields from the **item** domain, and in addition, the other fields you expressly specified from the **property** or **stat** domains.

For example:

```
//Find all items, and display the "name" and "repo" fields as well as the number of "downloads" from the corresponding "stat" entity
items.find().include("name", "repo", "stat.downloads")

//Find all items, and display the default item fields fields as well as the stat fields
items.find().include("stat")
```

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```
//Find all items, and display the default item fields as well as the stat and the property fields
items.find().include("stat", "property")

//Find all items, and display the "name" and "repo" fields as well as the stat fields
items.find().include("name", "repo", "stat")

//Find all builds that generated items with an Apache license, and display the build fields as well as the item "name"
fields. Click below to view the output of this query
builds.find({
    "module.artifact.item.@license": {"$match": "Apache*"}
})
.include("module.artifact.item.name")
```

Click to view the output of the last query

Note that the output displays the default fields of the "build" domain, and the "name" field from the item domain. Fields from the module and artifact domains are not displayed since they were not specified in the include element.

```
{

"results" : [ {
    "build.created" : "2015-09-06T15:49:01.156+03:00",
    "build.created_by" : "admin",
    "build.name" : "maven+example",
    "build.number" : "313",
    "build.url" : "http://localhost:9595/jenkins/job/maven+example/313/",
    "modules" : [ {
        "artifacts" : [ {
            "items" : [ {
                "name" : "multi-3.0.0-20150906.124843-1.pom"
            } ]
        } ]
    } ],
}, {
    "build.created" : "2015-09-06T15:54:40.726+03:00",
    "build.created_by" : "admin",
    "build.name" : "maven+example",
    "build.number" : "314",
    "build.url" : "http://localhost:9595/jenkins/job/maven+example/314/",
    "modules" : [ {
        "artifacts" : [ {
            "items" : [ {
                "name" : "multi-3.0.0-20150906.124843-1.pom"
            } ]
        } ]
    } ]
},
"range" : {
    "start_pos" : 0,
    "end_pos" : 2,
    "total" : 2
}
}
```

### 9.7.3 | Users Without Admin Privileges

To ensure that non-privileged users do not gain access to information without the right permissions, users without admin privileges have the following restrictions:

1. The primary domain in the query may only be **item**.
2. The following three fields must be included in the include directive: `name`, `repo`, and `path`.

Note, however, that once these restrictions are met, you may include any other accessible field from any domain in the include directive.

#### 9.7.4 | Filtering Properties by Key

The primary use of the `.include` element is to specify output fields to display in the result set.

This notion is applied in a similar way in regard to properties. Each item may be annotated with several (even many) properties. In many cases, you may only be interested in a specific subset of the properties, and only want to display those.

So the `.include` element can be used to filter out unwanted properties from the result, and only display (i.e. `include`) those you are interested in. However, note that `.include` will also filter out items that do not have this property.

For example, to display all the properties annotating an item found.

```
//Find all items, and display the "name" and "repo" fields, as well as all properties associated with each item
items.find().include("name", "repo", "property.*")
```

However, if you are only interested in a specific property (e.g. you just want to know the version of each item returned), you can filter out all other properties and only include the property with the key you are interested in:

```
//Find all items, and display the "name" and "repo" fields, as well as the key and value of the "version" property of each item
items.find().include("name", "repo", "@version")
```

### 9.8 | Sorting in AQL

AQL implements a default sort order, however, you can override the default and specify any other sort order using fields in your output by adding the `.sort` element to the end of your query as follows:

```
.sort({"$asc" | "$desc" : ["<field1>", "<field2>",... ]})
```

#### Note

You can only specify sorting on fields that are displayed in the output (whether they are those displayed by default or due to a `.include` element).

Here are some examples:

```
// Find all the jars in artifactory and sort them by repo and name
items.find({"name" : {"$match": "*.jar"}}).sort({"$asc" : ["repo", "name"]})
```

```
// Find all the jars in artifactory and their properties, then sort them by repo and name
items.find({"name" : {"$match": "*.jar"}}).include("@").sort({"$asc" : ["repo", "name"]})
```

#### Limitation

The `.sort` element has the following limitation:

- If your query has an `include` element, you can only specify fields from the primary domain in it.

For example, in the following query, `.sort` will not work because the primary domain is an item, but the `include` element specifies that fields from the artifact, module, and build domains should be displayed:

```
items.find().include("artifact", "artifact.module", "artifact.module.build")
```

This means that if you search for an item and include the property you will not be able to sort by the property.

```
items.find({"repo": "example-repo-local"}).include("repo", "path", "name", "created", "@build.number")
```

### 9.9 | Display Limits and Pagination

#### Limitation

**Sort**, **limit**, and **offset** elements only work in the following cases.

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- Your query does not have an **include** element
  - If you do have an **include** element, you only specify fields from the primary domain in it.

For example, in the following query, **sort**, **limit** and **offset** will not work because the primary domain is **item**, but the **include** element specifies that fields from the **artifact**, **module** and **build** domains should be displayed:

```
items.find().include("artifact","artifact.module","artifact.module.build")
```

Using the `.limit` elements, you can limit the number of records that will be displayed by your query.

```
// Find all the jars in artifactory and sort them by repo and name, but only display the first 100 results
items.find({"name" : {"$match": "*.jar"}).sort({"$asc" : ["repo", "name"]}).limit(100)
```

You can also implement pagination when you want to focus on a subset of your results using the `.offset` element.

```
//Run the same example, but this time, display up to 50 items but skipping the first 100 items.find({"name" : {"$match": "*.jar"}).sort({"$asc" : ["repo","name"]}).offset(100).limit(50)
```

## 9.10 | Using AQL With Remote Repositories

## Searching Remote Repositories

From Artifactory version 7.17.4, you can search directly within remote or virtual repositories. This requires providing credentials to the remote Artifactory on the remote repository configuration under the Advanced tab.

To enable a search within a remote repository, add the transitive tag to the search query.

```
items.find("repo": "remote-repo").transitive()
```

## Rules and Guidelines for Using AQL in Remote Repositories

The following rules and guidelines apply when searching remote and virtual repositories:

- The remote repository MUST be an Artifactory instance.
  - The query MUST include a single repository and a \$eq clause.

## Example

```
items.find("repo": "remote-repo").transitive()
```

- You cannot use Sort and Offset flags within the AQL Query.
  - The primary domain can only contain Items.
  - Include may only have the following domains: Items and ItemProperties.
  - The search will run on the first five remote repositories within the virtual repository.

### 9.10.1 | Examples of Searching in Remote Repositories with AQL

## Example 1: Input

The following example searches for all the fields of the domain item.

```
items.find(  
    {  
        "repo" : "docker-remote-repo"  
    }  
)  
.transitive()
```

### Example 1: Output

```
{
  "results": [
    {
      "repo": "docker-remote-repo-cache",
      "path": "alpine/latest"
    }
  ]
}
```

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```
"name": "manifest.json",
"type": "file",
"size": 528,
"created": "2021-03-21T13:54:52.383+02:00",
"created_by": "admin",
"modified": "2021-03-21T13:54:32.000+02:00",
"modified_by": "admin",
"updated": "2021-03-21T13:54:52.384+02:00"
},
...
],
"range": {
  "start_pos": 0,
  "end_pos": 12,
  "total": 12
}
}
```

## Example 2: Input

The following example limits the searches to results listed in the `includesection`.

```
items.find(
{
  "repo" : "docker-remote-repo"
}
).include("name").transitive()
```

## Example 2: Output

```
{
  "results": [
    {
      "name": "manifest.json"
    },
    {
      "name": "sha256__4c0d98bf9879488e0407f897d9dd4bf758555a78e39675e72b5124ccf12c2580"
    },
    {
      "name": "sha256__e50c909a8df2b7c8b92a6e8730e210ebe98e5082871e66edd8ef4d90838cbd25.marker"
    },
    {
      "repo": "docker-remote-repo",
      "name": "manifest.json"
    },
    {
      "repo": "docker-remote-repo",
      "name": "repository.catalog"
    },
    {
      "repo": "docker-remote-repo",
      "name": "sha256__4c0d98bf9879488e0407f897d9dd4bf758555a78e39675e72b5124ccf12c2580"
    },
    {
      "repo": "docker-remote-repo",
      "name": "sha256__e50c909a8df2b7c8b92a6e8730e210ebe98e5082871e66edd8ef4d90838cbd25"
    }
  ],
  "range": {
    "start_pos": 0,
    "end_pos": 7,
    "total": 7
  }
}
```

## 9.11 | Using AQL With Virtual Repositories

AQL supports virtual repositories. Since virtual repositories only contain items indirectly through the local repositories they include, several conventions have been laid down as described in the following sections.

### Filtering on a Virtual Repository

You may limit queries to search in a specified virtual repository. In practice this means that the query will be applied to local repositories and remote repository caches included in the specified virtual repository.

For example, find all the items within any repository contained in a virtual repository called `my-virtual`.

```
items.find({"repo" : "my-virtual"})
```

### Output Fields

The `item` domain has a `virtual_repos` field which includes the virtual repositories in which a found item is contained. In general, to display this field, you need to expressly specify it in your query as an output field. However, if your query specifies a virtual repository as its search target, the `virtual_repos` field is implicitly included in the search results as an output field.

### An item must be accessible in order to be found

A search query will only find an item in a virtual repository if it is accessible by that virtual repository. For example, the local repository that contains an item may specify and include or exclude pattern which prevents access to the item by the encapsulating virtual repository. In this case the search query will not find the item.

## 10 | GraphQL

GraphQL is a query language that enables you to query your APIs and fetch specific data that you need. Using one endpoint, you can query just the data you want to retrieve and receive a JSON response containing that specific data. To learn more about GraphQL, the query language, type system, how the GraphQL service works, as well as best practices for using GraphQL see [GraphQL documentation](#).

### 10.1 | Authentication to use the Metadata Server GraphQL

Using GraphQL to query metadata provides a simple way to fetch packages data stored in the metadata microservice. Since GraphQL enables you to query objects in a hierarchical structure, and allows you to choose which fields to include in a response, it will be simpler to find the exact data you are looking for.

To use the metadata server GraphQL, you will need a scoped token for Artifactory.

#### cURL Example

```
curl -H "Authorization: Bearer <Your Token>" -XPOST http://<server:port>/metadata/api/v1/query -d '{"query": "..."}'
```

### 10.2 | GraphiQL

JFrog offers a version of a simple GraphiQL, a UI tool for your GraphQL queries. You can use the GraphiQL to learn about the GraphQL metadata schema and as a playground to test your queries. To access it, `<your server url>/metadata/api/v1/query/graphiql`.

### 10.3 | Build a Metadata GraphQL Query

In this section, you will learn about the structure of a query, how to construct a query, and the available Metadata queries.

#### 10.3.1 | GraphQL Pagination

The Metadata GraphQL implementation utilizes GraphQL's pagination convention using the GraphQL connection model. This means that every entity queried is embedded within a wrapper containing the pagination information. To learn more, see [GraphQL Pagination](#).

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GraphQL query enables you to sort and order your queries by using a set of predefined arguments. Available sort arguments are First (limit), After (Offset) and OrderBy.

For example, for Package pagination you can use: (first:5 after:\$PackageCursor). The Package cursor is retrieved from the last Package queried. Additionally, you can get the last Package cursor and know if there are additional Packages to query by adding the pageInfo to your query.

### Pagination Example

```
query
{
  packages (
    # filter argument
    filter: {name: "*"},
    first: 5,
    after: "UGFja2FnZTo1"
  )
  {
    pageInfo
    {
      hasNextPage
      endCursor
    }
    # Connection Model
    edges {
      cursor
      node {
        #Object fields to be returned by the query
        name
        packageType
        description
      }
    }
  }
}
```

### 10.3.2 | Available Queries for Metadata GraphQL

The following are the queries available for the Metadata GraphQL.

#### Packages

```
packages(
  filter: PackageFilter!
  first: Int
  after: ID
  orderBy: PackageOrder
): PackageConnection!
```

#### Versions

```
versions(
  filter: VersionFilter!
  first: Int
  after: ID
  orderBy: VersionOrder
): VersionConnection!
```

#### Files

```
files(
  filter: FileFilter!
  first: Int
  after: ID
  orderBy: FileOrder
): FileConnection!
```

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## 10.3.3 | Filter Types

The following describes the available filter names you can use to construct a filter for each of the query types.

PackageFilter!

Filter Name	Type	Description	Example
name	Case sensitive pattern	Match package names against a pattern.	name: "arti**"
packageTypeIn	[PackageType!]	Match packages of one of the given types.	packageTypeIn: [BOWER, COCOAPODS]
createdMin	Time	Match packages with a "created date" equal or after provided date.	createdMin: "2019-12-25T00:00:01.000Z"
createdMax	Time	Match packages with a "created date" equal or before provided date.	createdMax: "2019-12-25T00:00:01.000Z"
modifiedMin	Time	Match packages with a "modified date" equal or after provided date.	modifiedMin: "2019-12-25T00:00:01.000Z"
modifiedMax	Time	Match packages with a "modified date" equal or before provided date.	modifiedMax: "2019-12-25T00:00:01.000Z"
latestVersion	Case sensitive pattern	Match packages with the latest version matching the provided pattern.	latestVersion: "*ersion**"
versionCountMin	Int	Match packages with at least a certain amount of versions.	versionCountMin: 1
versionCountMax	Int	Match packages with at most a certain amount of versions.	versionCountMax: 1

VersionFilter!

Filter Name	Type	Description	Example
name	Case sensitive pattern	Match version names against a pattern	name: "*1.1*"
createdMin	Time	Match versions with a "created date" equal or after provided date.	createdMin: "2019-12-25T00:00:01.000Z"

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Filter Name	Type	Description	Example
createdMax	Time	Match versions with a "created date" equal or before provided date.	createdMax: "2019-12-25T00:00:01.000Z"
sizeMin	String	Match versions with size greater than or equal to provided size.	sizeMin: "100"
sizeMax	String	Match versions with size less than or equal to provided size.	sizeMax: "100"
licenses	List Filter	Match versions with licenses.	licenses: {patterns: ["*gpl", "apache"]}
tags	List Filter	Match versions with tags.	tags: {patterns: ["tag*", "?tag*"]}
properties	[NameValuePair!]	Match versions with a specific set of properties.	properties: [{name:"*key1", value:"*value1"}, {name:"*key2", value:"*value2"}]
vulnerabilities	[VulnerabilitiesFilter!]	Match versions with vulnerabilities.	vulnerabilities: [{level: LOW, countMin: 3}, {level: HIGH, countMin: 5}]

FileFilter!

Filter Name	Type	Description	Example
name	Case sensitive pattern	Match file names	name: "*1.1*"
sizeMin	String	Match files with size greater than or equal to provided size.	sizeMin: "100"
sizeMax	String	Match files with size less than or equal to provided size	sizeMax: "100"
md5	Case sensitive pattern	Match MD5 hashes against a pattern	md5: "5eb63bbbe01eede093cb22bb8f5*"

Filter Name	Type	Description	Example
sha1	Case sensitive pattern	Match SHA-1 hashes against a pattern	sha1: "2aae6c35c94fcfb415dbe95f408b9ce91*"
sha256	Case sensitive pattern	Match SHA-256 hashes against a pattern	sha256: "b94d27b9934d3e08a52e52d7da7dabfac484efe37a5380ee9*"

#### 10.3.4 | Entities and Fields

##### Package

Field	Type
name	String!
packageType	String!
created	Time!
modified	Time!
versionsCount	Int!
vcsUrl	String!
issuesUrl	String!
description	String!
latestVersion	String!
licenses	[License!]
properties	[Property!]
qualifiers	[Qualifier!]

Field	Type
versions	[Version]
sources	[Source!]
tags	[String!]
stats	PackageStats
vulnerabilities	Vulnerabilities

Licenses

Field	Type
name	String!
source	String!
description	String!
modified	Time!
url	String!

Properties

Field	Type
name	String!
value	String!

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Qualifiers

Field	Type
name	String!
value	String!

Versions

Field	Type
name	String!
size	String!
created	Time!
modified	Time!
license	Entity
files	Entity
repos	VersionRepository
tags	Entity
stats	VersionsStats
qualifiers	Entity
properties	Entity
contributors	VersionContributors
vulnerabilities	VersionVulnerabilities

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## Sources

Field	Type
name	String!
url	String!
modified	Time!

## PackageStats

Field	Type
downloads	Int!
followers	Int!

## VersionVulnerabilities

Field	Type
high	Int!
medium	Int!
low	Int!
info	Int!
unknown	Int!
skipped	Int!

## Files

Field	Type
name	String!

Field	Type
md5	String!
sha1	String!
sha256	String!
lead	Boolean
length	String!
arch	String!
dist	String!
compiler	String!
compilerVersion	String!
mimeType	String!
qualifiers	Entity

VersionRepository

Field	Type
name	String!
url	String!
type	String!
leadFilePath	String!

VersionStats

Field	Type
downloadCount	Int!

VersionContributor

Field	Type
name	String!
type	String!
email	String!
url	String!

#### 10.3.5 | Example 1 - Package by name and type

##### Query

```
# Query package name and description, filtered by name pattern, ordered by name descending
query {
  packages(
    filter: {
      name: "*ello*",
      packageTypeIn: [NPM, DOCKER]
    },
    first: 3,
    orderBy: {
      field: NAME,
      direction: DESC
    }
  ) {
    edges {
      node {
        name
        description
      }
    }
  }
}
```

##### Sample Result

```
{
  "data": {
    "packages": {
      "edges": [
        {
          "node": {
            "name": "p2Hello",
            "description": "Sample Package 2"
          }
        }
      ]
    }
  }
}
```

```
        }
    },
{
  "node": {
    "name": "p1Hello",
    "description": "Sample Package 1"
  }
},
{
  "node": {
    "name": "library/hello-world",
    "description": null
  }
}
]
}
}
}
```

### 10.3.6 | Example 2 - Package with its Versions and Licenses by creation date

#### Query

```
# Query Package name description and creation date, with its version names and sizes, and associated licenses name and source
# for each version.
# filtered by package creation date, limited to first 3 results.
query {
  packages(
    filter: {
      createdMin: "2020-01-01T01:59:00.000Z"
    },
    first: 3
  )
  {
    edges {
      node {
        name
        description
        created
        versions{
          name
          size
          licenses{
            name
            source
          }
        }
      }
    }
  }
}
```

#### Sample Result

```
{
  "data": {
    "packages": [
      {
        "edges": [
          {
            "node": {
              "name": "sample_rpm-1",
              "description": "Sample RPM Package for data generation",
              "created": "2020-01-05T09:53:21.588Z",
              "versions": [
                {
                  "name": "0:2.0.0-2.0.0",
                  "size": "2080",
                  "licenses": [

```

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```
{  
    "name": "MIT",  
    "source": "Local File"  
}  
]  
,  
{  
    "name": "0:8.0.0-8.0.0",  
    "size": "2080",  
    "licenses": [  
        {  
            "name": "MIT",  
            "source": "Local File"  
        }  
    ]  
}  
]  
}  
,  
{  
    "node": {  
        "name": "example package 7",  
        "description": null,  
        "created": "2020-01-09T18:02:48.604Z",  
        "versions": [  
            {  
                "name": "0.4.6",  
                "size": "",  
                "licenses": [  
                    {  
                        "name": "Apache-2.0",  
                        "source": "Local File"  
                    }  
                ]  
            }  
        ]  
    }  
},  
{  
    "node": {  
        "name": "another example",  
        "description": "a nice package for web apps",  
        "created": "2020-01-05T17:43:13.979Z",  
        "versions": [  
            {  
                "name": "1.2.32",  
                "size": "",  
                "licenses": [  
                    {  
                        "name": "MIT",  
                        "source": "Local File"  
                    }  
                ]  
            },  
            {  
                "name": "1.7.9",  
                "size": "623646",  
                "licenses": [  
                    {  
                        "name": "MIT",  
                        "source": "Local File"  
                    }  
                ]  
            }  
        ]  
    }  
},  
]  
}
```

}