

REST API Reference

ServiceNow provides extensive access to instances through a set of RESTful APIs. Below you will find a list of the available endpoints with the latest information. For more information about a particular endpoint, click on it in the left pane to view a description of the endpoint, applicable query parameters, a sample request in multiple formats, and a sample response payload.

Additionally, you can discover these APIs from within your instance by using the REST API Explorer. If you don't find an API that meets your needs you can create custom REST APIs on ServiceNow using our Scripted REST API feature as of the Geneva release.

ServiceNow REST APIs support Basic Authentication and OAuth 2.0 to authenticate requests.

ServiceNow REST APIs are versioned. Use the version selector shown in the lower left corner of this page to choose which version of the documentation you would like to see.

DevOps API

The DevOps API provides endpoints that enable the interaction with external DevOps tools.

This REST API enables integrators to:

- Retrieve the available DevOps tools associated with an instance.
- Retrieve the schema object for a code resource, plan, or orchestration resource.
- Check if an orchestration task is under change control and check its change control status.
- Create callbacks to associate with task executions under change control.
- Send various event payloads, which are transformed into normalized objects and stored as code, orchestration, and plan objects.
- Search a commit, branch, or repository using encoded queries and specific search/sort criteria.
- Register artifact versions and packages along with their associated pipeline execution and commits.
- Create and manage onboarding application and tool events.

For additional information, see [DevOps Config](https://docs.servicenow.com/csh?topicname=devops-config-landing-page&version=zurich&pubname=zurich-it-service-management) (<https://docs.servicenow.com/csh?topicname=devops-config-landing-page&version=zurich&pubname=zurich-it-service-management>).

Starting with v2, this API supports token-based authentication. Tokens can be acquired by clicking the Copy token button on the tool record, located in the Tool [sn_devops_tool] table. The token can then be used in an authorization header in the format `Authorization: sn_devops.DevOpsToken <tool_sys_id>:<tool_token>`. Note: If Basic Auth details (user name and password) are provided in addition to an authorization header with token, Basic Auth takes precedence.

If the devops.system user is not available in your instance, use the Switch to this user after token based authentication is successful property. This property enables setting any user that has the sn_devops.integration role, which is needed to complete the token authentication. For information, see [DevOps Change Velocity properties](https://docs.servicenow.com/csh?topicname=dev-ops-administration&version=zurich&pubname=zurich-it-service-management) (<https://docs.servicenow.com/csh?topicname=dev-ops-administration&version=zurich&pubname=zurich-it-service-management>).

GET /devops/code/schema

Returns the schema object for a specified code resource: commit, repository, or branch.

Once you have the required schema object, use it to create the request body for your corresponding POST call; POST /code/commit, POST /code/repository, or POST /code/branch.

Note: This endpoint only returns the request body elements that are required.

Note: Available versions are specified in the [REST API Explorer](https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference) (<https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference>). For scripted REST APIs there is additional version information on the [Scripted REST Service form](https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference) (https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/code/schema
Versioned URL	/api/sn_devops/{api_version}/devops/code/schema

Path parameters

Name	Description
api_version	Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest. Data type: String

Query parameters

Name	Description
resource	Required. Type of resource schema to return. Valid values (not case-sensitive): <ul style="list-style-type: none">• branch• commit• repository Data type: String

Request body parameters (XML or JSON)

Name	Description
None	

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html).

Request headers

Header	Description
Accept	Data format of the response body. Only supports application/json.

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
200	Request completed successfully.
401	Invalid or missing authentication.
500	Internal server error. An unexpected error occurred while processing the request. The response contains additional information about the error.

Curl

```
curl "https://instance.servicenow.com/api/sn_devops/v1/devops/code/schema?resource=branch" \
--request GET \
--header "Accept:application/json" \
--user "username":"password"
```

```
{
  "result": {
    "name": "Master",
    "path": "refs/heads/master",
    "repository": {
      "name": "Platform-Mobile",
      "url": "https://github.com/mycompany/mobileplatform"
    }
  }
}
```

Curl

```
curl "https://instance.servicenow.com/api/sn_devops/v1/devops/code/schema?resource=commit" \
--request GET \
--header "Accept:application/json" \
--user "username":"password"
```

```
{
  "result": {
    "repository": {
      "name": "Platform-Mobile",
      "url": "https://github.com/mycompany/mobileplatform"
    },
    "branch": {
      "name": "refs/heads/master"
    },
    "commits": [
      {
        "committer": {
          "email": "name@email.com"
        },
        "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
        "url": "https://github.com/mycompany/mobileplatform/commit/3fa85f6457174562b3fc2c963f66afa6",
        "committedDate": "2022-01-01T08:15:30-05:00",
        "details": [
          {
            "action": "edit",
            "changes": "",
            "file": "/azure-pipelines.yml",
            "additions": 1,
            "deletions": 0,
            "totalChanges": 1
          }
        ]
      }
    ]
  }
}
```

Curl

```
curl "https://instance.servicenow.com/api/sn_devops/v1/devops/code/schema?resource=repository" \
--request GET \
--header "Accept:application/json" \
--user "username":"password"
```

```
{
  "result": {
    "name": "Platform-Mobile",
    "url": "https://github.com/mycompany/mobileplatform"
  }
}
```

GET /devops/onboarding/status

Returns the current status of the specified onboarding event which is processed or being processed asynchronously by the DevOps service.

Note: Available versions are specified in the [REST API Explorer \(<https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference>\)](https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference). For scripted REST APIs there is additional version information on the [Scripted REST Service form \(\[https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference\]\(https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference\)\)](https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/onboarding/status
Versioned URL	/api/sn_devops/{api_version}/devops/onboarding/status

Path parameters

Name	Description
api_version	<p>Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest.</p> <p>Data type: String</p>

Query parameters

Name	Description
id	<p>Unique identifier of the onboarding event whose status to return. This value is provided in the return results of the endpoint that invoked the event request, such as /devops/onboarding/app or /devops/onboarding/tool.</p> <p>Data type: String</p>

Request body parameters

Name	Description
None	

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html).

Request headers

Header	Description
Accept	Data format of the response body. Only supports application/json.

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
200	Successful. The request was successfully processed.
202	Pending - The onboarding request has been created and the DevOps service is processing the request.
207	Partial Success - The onboarding request has been created and the DevOps service will process the request.
400	Failed - The onboarding event failed.
404	Failed - The endpoint failed to find any request matching the specified event ID.

Curl

The following shows the status request of a tool onboarding.

```
curl -X GET "https://servicenow-instance/api/sn_devops/v1/devops/onboarding/status?id=IBE0001603" \
-H "Accept: application/json" \
-H "Content-Type: application/json" \
-u "username":"password" \
```

```
{
  "result": {
    "code": "207",
    "onboardingRequestID": "IBE0001603",
    "status": "partial-success",
    "messageDetails": {
      "status": "Partial Success",
      "toolResponse": [
        {
          "name": "Primary Azure",
          "type": "Azure DevOps",
          "status": "Partial Success",
          "createStatus": {
            "status": "Success",
            "message": "Created successfully"
          },
          "connectStatus": {
            "status": "Failed",
            "error": "Method failed: (/testFirst/_apis/work/boards) with code: 401 - Invalid username/password"
          }
        },
        {
          "name": "Primary Jenkins",
          "type": "Jenkins",
          "status": "Success",
          "createStatus": {
            "status": "Success",
            "message": "Created successfully"
          },
          "connectStatus": {
            "status": "Success",
            "message": "Connected successfully"
          },
          "discoveryStatus": {
            "status": "Success",
            "message": "Discovered successfully",
            "imports": [
              {
                "status": "completed",
                "id": "2a4d216bdb2d2450fe4fd6a75e9619c3",
                "details": "Discovered 1 new job(s) and 3 new pipeline(s)\n"
              }
            ]
          }
        },
        {
          "name": "Primary GitHub",
          "type": "GitHub",
          "status": "Success",
          "createStatus": {
            "status": "Success",
            "message": "Created successfully"
          },
          "connectStatus": {
            "status": "Success",
            "message": "Connected successfully"
          },
          "discoveryStatus": {
            "status": "Success",
            "message": "Discovered successfully",
            "imports": [
              {
                "status": "completed",
                "id": "7f4d616bdb2d2450fe4fd6a75e9619c2",
                "details": "Discovered 5 new repositories. "
              }
            ]
          }
        },
        {
          "name": "Primary Bitbucket",
          "type": "BitBucket",
          "status": "Success",
          "createStatus": {
            "status": "Success",
            "message": "Created successfully"
          },
          "connectStatus": {
            "status": "Success",
            "message": "Connected successfully"
          },
          "discoveryStatus": {
            "status": "Success",
            "message": "Discovered successfully",
            "imports": [
              {
                "status": "completed",
                "id": "7f4d616bdb2d2450fe4fd6a75e9619c2",
                "details": "Discovered 5 new repositories. "
              }
            ]
          }
        }
      ]
    }
  }
}
```

```
        "message": "Discovered successfully",
        "imports": [
            {
                "status": "completed",
                "id": "815da16bdb2d2450fe4fd6a75e9619d0",
                "details": "Discovered 11 new repositories. "
            }
        ]
    },
    {
        "name": "Primary Gitlab",
        "type": "GitLab",
        "status": "Partial Success",
        "createStatus": {
            "status": "Success",
            "message": "Created successfully"
        },
        "connectStatus": {
            "status": "Failed",
            "error": "The current operation ended in state: ERROR"
        }
    }
],
"importRequestsSysIds": [
    "2a4d216bdb2d2450fe4fd6a75e9619c3",
    "7f4d616bdb2d2450fe4fd6a75e9619c2",
    "815da16bdb2d2450fe4fd6a75e9619d0"
]
}
```

Curl

The following shows the status request of an application onboarding.

```
curl -X POST "https://servicenow-instance/api/sn_devops/v1/devops/onboarding/status?onboardingRequestID=IBE"
-H "Accept: application/json" \
-H "Content-Type: application/json" \
-u "username":"password" \
```

```
{
  "result": {
    "code": "207",
    "onboardingRequestID": "IBE0001604",
    "status": "partial-success",
    "messageDetails": {
      "status": "Partial Success",
      "apps": [
        {
          "name": "Bike Rentals Service",
          "status": "Success",
          "appId": "c7fd696bdb2d2450fe4fd6a75e961993",
          "message": "App by name 'Bike Rentals Service' has been successfully created"
        }
      ],
      "pipelines": [
        {
          "name": "Bike Rentals",
          "status": "Success",
          "message": "Successfully associated with app 'Bike Rentals Service'",
          "changeStepAssociation": [
            {
              "status": "Success",
              "changeStepName": "Prod",
              "summary": "Change step with name 'Prod' has been created"
            }
          ]
        }
      ],
      "repositories": [
        {
          "name": "nowdevops01/BikeRentals",
          "status": "Partial Success",
          "message": "Successfully associated with app 'Bike Rentals Service'",
          "configureStatus": {
            "status": "Failed",
            "message": "Webhook configuration failed due to empty credentials for repository by name nowdevops"
          }
        }
      ],
      "plans": [
        {
          "status": "Failed",
          "name": "testFirst",
          "errors": [
            "Plan by name 'testFirst' does not exist in tool Primary Azure"
          ]
        }
      ]
    }
  }
}
```

GET /devops/orchestration/changeControl

Checks if the orchestration task is under change control.

Note: Available versions are specified in the [REST API Explorer](https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference) (<https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference>). For scripted REST APIs there is additional version information on the [Scripted REST Service form](https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference) (https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/orchestration/changeControl
Versioned URL	/api/sn_devops/{api_version}/devops/orchestration/changeControl

Path parameters

Name	Description
api_version	Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest. Data type: String

Query parameters

Name	Description
orchestrationTaskName	Name of the orchestration task to check. Data type: String
testConnection	Flag that indicates whether to test the end-to-end connection between the instance and the DevOps tool. Valid values: <ul style="list-style-type: none">• true: Test the end-to-end connection.• false: Do't test the end-to-end connection. Data type: Boolean Default: false
toolId	Required. Sys_id of the orchestration tool. Data type: String Table: Orchestration Tool [sn_devops_orchestration_tool]
toolType	Type of tool. Valid values: jenkins Data type: String

Request body parameters

Name	Description
None	

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html).

Request headers

Header	Description
Accept	Data format of the response body. Only supports application/json.
Authorization	<p>Starting with v2, this API supports token-based authentication. Tokens can be acquired by clicking the Copy token button on the tool record, located in the Tool [sn_devops_tool] table. The token can then be used in an authorization header in the format <code>Authorization: sn_devops.DevOpsToken <tool_sys_id>: <tool_token></code>.</p> <p>Note: If Basic Auth details (user name and password) are provided in addition to an authorization header with token, Basic Auth takes precedence.</p> <p>If the devops.system user is not available in your instance, use the Switch to this user after token based authentication is successful property. This property enables setting any user that has the sn_devops.integration role, which is needed to complete the token authentication. For information, see DevOps Change Velocity properties (https://docs.servicenow.com/csh?topicname=dev-ops-administration&version=zurich&pubname=zurich-it-service-management).</p>

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
200	Successful. The request was successfully processed.
401	Invalid or missing authentication.
500	Internal server error. An unexpected error occurred while processing the request. The response contains additional information about the error.

Response body parameters (JSON or XML)**URL Format**

Name	Description
changeControl	<p>Flag that indicates whether the orchestration task is under change control. Possible values:</p> <ul style="list-style-type: none"> • true: Under change control. • false: Not under change control. <p>Data type: Boolean</p>

Curl

```
curl -X GET "https://instance.servicenow.com/api/sn_devops/v2/devops/orchestration/changeControl?toolId=1c2
-H "accept: application/json"\n
-H "Authorization: sn_devops.DevOpsToken 1c219f7e8708f1508ca933383ccb3543:FtN13dfDuahYEtfdDvhHorh0QPp9na3u"
```

body.

```
{
  "result": {
    "changeControl": true,
    "status": "Success"
  }
}
```

Curl

```
curl -X GET "https://instance.servicenow.com/api/sn_devops/v1/devops/orchestration/changeControl?toolId=f0c
-H "accept: application/json"\n
-u "username":"password"
```

body.

```
{
  "result": {
    "changeControl": false
  }
}
```

GET /devops/orchestration/changeInfo

Retrieves change request details for a specified orchestration pipeline execution.

Note: Available versions are specified in the [REST API Explorer](https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference) (<https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference>). For scripted REST APIs there is additional version information on the [Scripted REST Service form](https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference) (https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/orchestration/changeInfo
Versioned URL	/api/sn_devops/{api_version}/devops/orchestration/changeInfo

Path parameters

Name	Description
api_version	Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest. Data type: String

Query parameters

Name	Description
branchName	<p>Name of the branch associated with the orchestration task. Note: You should provide this parameter when referencing multi-branch pipelines or the response may include incorrect change details.</p> <p>Data type: String</p>
buildNumber	<p>Required. Pipeline build number within the orchestration tool.</p> <p>Data type: String</p>
pipelineName	<p>Optional for Jenkins Freestyle or Maven projects, required for all others. Orchestration pipeline name.</p> <p>Data type: String</p>
projectName	<p>Required for Jenkins Freestyle or Maven projects, optional for all others. Orchestration tool project name.</p> <p>Data type: String</p>
stageName	<p>Optional for Jenkins Freestyle or Maven projects, required for all others. Orchestration stage name.</p> <p>Data type: String</p> <p>Maximum length: 160</p>
toolId	<p>Required. Sys_id of the orchestration tool.</p> <p>Data type: String</p> <p>Table: Orchestration Tool [sn_devops_orchestration_tool]</p>

Request body parameters (XML or JSON)

Name	Description
None	

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html).

Request headers

Header	Description
Accept	Data format of the response body. Only supports application/json.
Authorization	<p>Starting with v2, this API supports token-based authentication. Tokens can be acquired by clicking the Copy token button on the tool record, located in the Tool [sn_devops_tool] table. The token can then be used in an authorization header in the format <code>Authorization: sn_devops.DevOpsToken <tool_sys_id>: <tool_token></code>.</p> <p>Note: If Basic Auth details (user name and password) are provided in addition to an authorization header with token, Basic Auth takes precedence.</p> <p>If the devops.system user is not available in your instance, use the Switch to this user after token based authentication is successful property. This property enables setting any user that has the sn_devops.integration role, which is needed to complete the token authentication. For information, see DevOps Change Velocity properties (https://docs.servicenow.com/csh?topicname=dev-ops-administration&version=zurich&pubname=zurich-it-service-management).</p>

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
200	Successful. The request was successfully processed.
400	Bad Request. A bad request type or malformed request was detected.
404	Not found. The requested item wasn't found.

Response body parameters (JSON or XML)**URL Format**

Name	Description
changeFound	<p>Flag that indicates whether the change request was located. Possible values:</p> <ul style="list-style-type: none"> • true: Change request was found. • false: Change request wasn't found. <p>Data type: Boolean</p>
number	<p>Change request number. Data type: String</p>
phase	<p>Current phase. Data type: String</p>
phase_state	<p>State of the current phase. Data type: String</p>
priority	<p>Priority of the change request. Priority is based on the impact and urgency of the request. It identifies how quickly the service desk should address the request. Possible values:</p> <ul style="list-style-type: none"> • 1: Critical • 2: High • 3: Moderate • 4: Low <p>Data type: String</p>
risk	<p>Level of risk for the change. Possible values:</p> <ul style="list-style-type: none"> • Low • High • Moderate <p>Data type: String</p>
state	<p>State of the change request. Possible values:</p> <ul style="list-style-type: none"> • Assess • Authorize • Canceled • Closed • Implement • New • Review • Scheduled <p>Data type: String Default: New</p>
sys_id	<p>Sys_id of the change request. Data type: String</p>

	Type of change request. Possible values: <ul style="list-style-type: none">• Emergency• Normal• Standard
type	Data type: String
url	URL of the change request within the associated ServiceNow instance. Data type: String
changeAssignmentGroup	Assignment group of the change request. Data type: String
changeApprovers	List of approvers with whom the change is pending for approval. Data type: String
plannedStartDate	Planned start date and time of the change. Data type: String
plannedEndDate	Planned end date and time of the change. Data type: String

Curl

```
curl -X GET "https://instance.servicenow.com/api/sn_devops/v1/devops/orchestration/changeInfo?toolId=1487f4"
-H "accept: application/json"\n
-u "username":"password"
```

```
{
  "result": {
    "changeFound": true,
    "sys_id": "ee89341bdb642810765555535e96196e",
    "number": "CHG0030001",
    "type": "normal",
    "state": "0",
    "phase": "requested",
    "phase_state": "open",
    "priority": "4",
    "risk": "2",
    "url": "https://instance.servicenow.com/change_request.do?sys_id=ee89341bdb642810765555535e96196e",
    "changeAssignmentGroup": "Change Management",
    "changeApprovers": "Ron Kettering, Christen Mitchell, Howard Johnson, Luke Wilson",
    "plannedStartDate": "2023-02-05 08:00:00",
    "plannedEndDate": "2024-02-05 08:00:00"
  }
}
```

GET /devops/orchestration/schema

Returns the schema object for a specified orchestration resource.

Once you have the required schema object, use it to create the request body for your corresponding POST call; /orchestration/orchestrationTask or /orchestration/taskExecution.

Note: This endpoint only returns the request body elements that are required.

Note: Available versions are specified in the [REST API Explorer](https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference) (<https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference>). For scripted REST APIs there is additional version information on the [Scripted REST Service form](https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference) (https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/orchestration/schema
Versioned URL	/api/sn_devops/{api_version}/devops/orchestration/schema

Path parameters

Name	Description
api_version	<p>Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest.</p> <p>Data type: String</p>

Query parameters

Name	Description
resource	<p>Type of resource schema to return. Valid values (not case-sensitive):</p> <ul style="list-style-type: none"> • build_details • callback • orchestration_task • task_execution <p>Data type: String</p>

Request body parameters

Name	Description
None	

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html).

Request headers

Header	Description
Accept	Data format of the response body. Only supports application/json.

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
200	Request completed successfully.
401	Invalid or missing authentication.
500	Internal server error. An unexpected error occurred while processing the request. The response contains additional information about the error.

Curl

```
curl -X GET \
'https://instance.servicenow.com/api/sn_devops/v1/devops/orchestration/schema?resource=task_execution' \
-H 'Accept: application/json' \
-u 'username':'password'
```

```
{
  "result": {
    "number": 40,
    "url": "https://jenkins.mycompany.com:8080/job/Mobile-Platform-CI/40/",
    "startDateTime": "1970-01-01T08:15:30-05:00",
    "endDateTime": "1970-01-01T08:25:30-05:00",
    "triggerType": "upstream",
    "result": "Success",
    "orchestrationTaskDetails": {
      "name": "Mobile-Platform-CI",
      "url": "https://jenkins.mycompany.com:8080/job/Mobile-Platform-CI/"
    }
  }
}
```

Curl

```
curl -X GET \
'https://instance.servicenow.com/api/sn_devops/v1/devops/orchestration/schema?resource=orchestration_task' \
-H 'Accept: application/json' \
-u 'username':'password'
```

```
{
  "result": [
    {
      "name": "Mobile-Platform-CI",
      "url": "https://jenkins.mycompnay.com:8080/job/Mobile-Platform-CI/"
    }
  ]
}
```

Curl

```
curl -X GET \
'https://instance.servicenow.com/api/sn_devops/v1/devops/orchestration/schema?resource=task_execution' \
-H 'Accept: application/json' \
-u 'username':'password'
```

```
{
  "result": [
    {
      "callbackURL": "http://127.0.0.1:8090/jenkins/sn-devops/9b0feb79-f0b9-4661-83ef-2861b8924784",
      "orchestrationTaskURL": "http://127.0.0.1:8090/jenkins/job/felipe-downstream/",
      "orchestrationTaskDetails": [
        {
          "message": "Started by upstream project \\\"felipe-upstream\\\" build number 27",
          "triggerType": "upstream"
        }
      ]
    }
  ]
}
```

GET /devops/orchestration/stepMapping

Verifies that the information being passed is valid for the creation of an orchestration task and is valid for association to a previously created step.

Note: Available versions are specified in the [REST API Explorer](https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference) (<https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference>). For scripted REST APIs there is additional version information on the [Scripted REST Service form](https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference) (https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/orchestration/stepMapping
Versioned URL	/api/sn_devops/{api_version}/devops/orchestration/stepMapping

Path parameters

Name	Description
api_version	Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest. Data type: String

Query parameters

Name	Description
branchName	<p>Name of the branch associated with the orchestration task.</p> <p>Data type: String</p>
isMultiBranch	<p>If the orchestration tool is Jenkins, flag that indicates whether the project is of type Multibranch.</p> <p>Valid values:</p> <ul style="list-style-type: none"> • true: Project is of type Multibranch. • false: Project is not of type Multibranch. <p>Data type: Boolean</p> <p>Default: false</p>
parentStageName	<p>If the orchestration task is a child nested inside a parent orchestration task, the name of the parent orchestration task.</p> <p>Data type: String</p>
parentStageURL	<p>If the orchestration task is a child nested inside a parent orchestration task, the URL of the parent orchestration task.</p> <p>Data type: String</p>
orchestrationTaskName	<p>Required. Name of the orchestration task.</p> <p>Data type: String</p>
orchestrationTaskURL	<p>Required. URL of the orchestration task. Note: Must be percent (%) encoded, such as https%3A%2Fjenkins.mycompany.com%3A8080%2Fjob%2FMobile-Platform-deploy%2F.</p> <p>Data type: String</p>
testConnection	<p>Flag that indicates whether to test the end-to-end connection between the instance and the DevOps tool.</p> <p>Valid values:</p> <ul style="list-style-type: none"> • true: Test the end-to-end connection. • false: Do not test the end-to-end connection. <p>Data type: Boolean</p> <p>Default: false</p>
toolId	<p>Required. Sys_id of the orchestration tool. Located in the Orchestration Tool [sn_devops_orchestration_tool] table.</p> <p>Data type: String</p>
toolType	<p>Required. Type of tool.</p> <p>Valid values: jenkins</p> <p>Data type: String</p>

Request body parameters

Name	Description
None	

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html).

Request headers

Header	Description
Accept	Data format of the response body. Only supports application/json.

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
200	Successful. The request was successfully processed.
401	Unauthorized. The user credentials are incorrect or have not been passed.
500	Internal server error. An unexpected error occurred while processing the request. The response contains additional information about the error.

Curl

```
curl -X GET "https://instance.servicenow.com/api/sn_devops/v1/devops/orchestration/stepMapping?toolId=f0ca4
-H "Accept: application/json" \
-u "username":"password"
```

Results if information is valid.

```
{
  "result": {
    "stepValid": true,
    "status": "Success"
  }
}
```

Curl

```
curl -X GET "https://instance.servicenow.com/api/sn_devops/v1/devops/orchestration/stepMapping?toolId=f0ca4
-H "Accept: application/json" \
-u "username":"password"
```

Results if information is invalid.

```
{
  "result": {
    "stepValid": false,
    "status": "Success"
  }
}
```

GET /devops/plan/schema

Returns the schema object for a specific plan: app, version, or work item.

Once you have the required schema object, use it to create the request body for your corresponding POST call; POST /plan/app, POST /plan/version, or POST /plan/workitem.

Note: This endpoint only returns the request body elements that are required.

Note: Available versions are specified in the [REST API Explorer](https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference) (<https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference>). For scripted REST APIs there is additional version information on the [Scripted REST Service form](https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference) (https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/plan/schema
Versioned URL	/api/sn_devops/{api_version}/devops/plan/schema

Path parameters

Name	Description
api_version	Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest. Data type: String

Query parameters

Name	Description
resource	<p>Type of resource schema to return.</p> <p>Valid values (not case-sensitive):</p> <ul style="list-style-type: none"> • app • version • work_item <p>Data type: String</p>

Request body parameters

Name	Description
None	

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html).

Request headers

Header	Description
Accept	Data format of the response body. Only supports application/json.

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
200	Successful. The request was successfully processed.
401	Invalid or missing authentication.
404	Not Found. The specified record couldn't be found.
500	Internal server error. An unexpected error occurred while processing the request. The response contains additional information about the error.

Curl

```
curl "https://instance.servicenow.com/api/sn_devops/v1/devops/plan/schema?resource=app" \
--request GET \
--header "Accept:application/json" \
--user "username":"password"
```

```
{
  "result": {
    "id": "PRODUCT1234",
    "shortDescription": "Mobile UI",
    "createdDateTime": "1970-01-01T08:15:30-05:00",
    "team": {
      "name": "Mobile UI",
      "id": "f0ca45679323008b52f3b457415ae6"
    },
    "url": "https://jira.com/mycompany/browse/PRODUCT-125"
  }
}
```

Curl

```
curl "https://instance.servicenow.com/api/sn_devops/v1/devops/plan/schema?resource=version" \
--request GET \
--header "Accept:application/json" \
--user "username":"password"
```

```
{
  "result": {
    "id": "REL1234",
    "shortDescription": "APIs Release",
    "createdDateTime": "1970-01-01T08:15:30-05:00",
    "app": {
      "id": "PRODUCT1234",
      "shortDescription": "Mobile UI",
      "createdDateTime": "1970-01-01T08:15:30-05:00",
      "team": {
        "name": "Mobile UI",
        "id": "f0ca45679323008b52f3b457415ae6"
      },
      "url": "https://jira.com/mycompany/browse/PRODUCT-125"
    },
    "url": "https://jira.com/mycompany/browse/REL-1234"
  }
}
```

Curl

```
curl "https://instance.servicenow.com/api/sn_devops/v1/devops/plan/schema?resource=work_item" \
--request GET \
--header "Accept:application/json" \
--user "username":"password"
```

```
{
  "result": {
    "id": "STR1234",
    "type": "Story",
    "shortDescription": "Planning API Spec",
    "state": "In-progress",
    "createdDateTime": "1970-01-01T08:15:30-05:00",
    "assignedTo": {
      "name": "Leo Neo",
      "userName": "Lenn",
      "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
      "email": "lenn@smithworksinc.com"
    },
    "version": {
      "id": "REL1234",
      "shortDescription": "APIs Release",
      "createdDateTime": "1970-01-01T08:15:30-05:00",
      "app": {
        "id": "PRODUCT1234",
        "shortDescription": "Mobile UI",
        "createdDateTime": "1970-01-01T08:15:30-05:00",
        "team": {
          "name": "Mobile UI",
          "id": "f0ca45679323008b52f3b457415ae6"
        },
        "url": "https://jira.com/mycompany/browse/PRODUCT-125"
      },
      "url": "https://jira.com/mycompany/browse/REL-125"
    },
    "app": {
      "id": "PRODUCT1234",
      "shortDescription": "Mobile UI",
      "createdDateTime": "1970-01-01T08:15:30-05:00",
      "team": {
        "name": "Mobile UI",
        "id": "f0ca45679323008b52f3b457415ae6"
      },
      "url": "https://jira.com/mycompany/browse/PRODUCT-125"
    },
    "url": "https://jira.com/mycompany/browse/HALOKEY-25"
  }
}
```

POST /devops/artifact/registration

Enables orchestration tools to register artifacts into a ServiceNow instance.

This endpoint creates new artifacts and artifact versions, and associates them to commits. The following describes the endpoint process flow:

- If the toolId is passed in the request, the endpoint validates that the tool exists within the instance. It also checks if the artifact repository specified in artifacts.repositoryName exists, and if not, creates it under the associated artifact tool.
- If the toolId is not passed in the request, a repository is created but it is not linked to any artifact tool.
- It then checks if the artifact specified in artifacts.name already exists, and if not, creates it under the associated repository.
- If the artifact.version is passed in the request:
 - If it does not exist, a new artifact version record is created in the associated Artifact Version [sn_devops_artifact_version] table.

- The endpoint then looks for associated task executions based on the provided build details (pipelineName or projectName, taskExecutionNumber, branchName, and stageName) and the orchestrationToolId parameter.
- If a task execution is found, and its post-processing is complete, the artifact version is linked to the task execution and stored in the Artifact to TaskExecution [sn_devops_m2m_artifact_execution] table. Commits linked to these task executions are also associated to the artifact version and stored in the Artifact Version to Commit [sn_devops_m2m_artifact_version_commit] table. Any commits that are linked to previous task executions that did not create an artifact, are also associated with the artifact version.
- If a task execution is found, and its post-processing is not complete, then the request is persisted in the Artifact Staged Request [sn_devops_artifact_staging] table. The staged request contains a reference to the task execution.
- If a task execution is not found, the request is persisted in the staging table. The staged request contains the build details.
- If the artifact.version is not passed in, then depending on the tool configuration, the artifact version is either retrieved by calling the /devops/tool/artifact endpoint if your artifact tool supports webhooks or through a custom subflow that retrieves the artifact version from the artifact tool.

For additional information on artifacts, see [Using DevOps change acceleration for releases](https://docs.servicenow.com/csh?topicname=using-dev-ops-release-change&version=zurich&pubname=zurich-it-service-management) (<https://docs.servicenow.com/csh?topicname=using-dev-ops-release-change&version=zurich&pubname=zurich-it-service-management>).

Note: Available versions are specified in the [REST API Explorer](https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference) (<https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference>). For scripted REST APIs there is additional version information on the [Scripted REST Service form](https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference) (https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/artifact/registration
Versioned URL	/api/sn_devops/{api_version}/devops/artifact/registration

Path parameters

Name	Description
api_version	Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest. Data type: String

Query parameters

Name	Description
orchestrationToolId	<p>Required. Sys_id of the orchestration tool associated with the artifact. The endpoint uses this information to locate task execution information.</p> <p>Data type: String</p> <p>Table: Orchestration Tool [sn_devops_orchestration_tool]</p>
toolId	<p>Sys_id of the artifact tool associated with the artifact.</p> <p>Data type: String</p> <p>Table: Artifact Tool [sn_devops_artifact_tool]</p>

Request body parameters (XML or JSON)

Name	Description
artifacts	<p>At least one entry required. Array of objects in which each object uniquely identifies an artifact version to register.</p> <p>Data type: Array of Objects</p> <pre>"artifacts": [{ "name": "String", "repositoryName": "String", "semanticVersion": "String", "version": "String" }]</pre>
artifacts.name	<p>Required. Artifact file name.</p> <p>Data type: String</p> <p>Maximum length: 160 characters</p>
artifacts.repositoryName	<p>Required. Artifact repository name.</p> <p>If the specified repository record does not exist, it is created.</p> <p>Data type: String</p> <p>Maximum length: 160 characters</p>
artifacts.semanticVersion	<p>Semantic version of the artifact.</p> <p>Data type: String</p> <p>Format: MAJOR.MINOR.PATCH</p> <p>Examples of possible values:</p> <ul style="list-style-type: none"> • 2.0.0 • 2.0.0-rc.2 • 2.0.0-rc.1 • 1.0.0-beta <p>Maximum length: 160 characters</p> <p>Default: Null</p>
artifacts.version	<p>Required if toolId is not passed. Artifact version.</p> <p>Data type: String</p> <p>Format: MAJOR.MINOR</p> <p>Maximum length: 160 characters</p> <p>Default: Null</p>
branchName	<p>Required if it is a multi-branch project. Name of the branch in the repository where the artifact is stored.</p> <p>Data type: String</p> <p>Maximum length: 160</p> <p>Default: Null</p>

	Required if projectName is not passed. Pipeline name.
pipelineName	<p>Data type: String</p> <p>Maximum length: 160</p> <p>Default: Null</p>
	Required if pipelineName is not passed. Free-form project name.
projectName	<p>Data type: String</p> <p>Maximum length: 160</p> <p>Default: Null</p>
	Required if pipelineName is passed. Stage name.
stageName	<p>Data type: String</p> <p>Maximum length: 160</p> <p>Default: Null</p>

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html).

Request headers

Header	Description
Accept	Data format of the response body. Only supports application/json.
Authorization	<p>Starting with v2, this API supports token-based authentication. Tokens can be acquired by clicking the Copy token button on the tool record, located in the Tool [sn_devops_tool] table. The token can then be used in an authorization header in the format <code>Authorization: sn_devops.DevOpsToken <tool_sys_id>: <tool_token></code>.</p> <p>Note: If Basic Auth details (user name and password) are provided in addition to an authorization header with token, Basic Auth takes precedence.</p> <p>If the devops.system user is not available in your instance, use the Switch to this user after token based authentication is successful property. This property enables setting any user that has the sn_devops.integration role, which is needed to complete the token authentication. For information, see DevOps Change Velocity.properties (https://docs.servicenow.com/csh?topicname=dev-ops-administration&version=zurich&pubname=zurich-it-service-management).</p>
Content-Type	Data format of the request body. Only supports application/json.

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
200	Success. Success with response body.
201	Created. Success with response body.
400	Bad Request. The request URI does not match the APIs in the system, or the operation failed for unknown reasons. Invalid headers can also cause this error.
500	Internal server error. An unexpected error occurred while processing the request. The response contains additional information about the error.

Curl

```
curl -X POST \
'https://instance.servicenow.com/api/sn_devops/devops/artifact/registration?toolId=391b4ff6dba24010bc8cdd38'
-H 'Accept: application/json' \
-H 'Content-Type: application/json' \
-u 'username':'password' \
-d '{
  "artifacts": [
    {
      "name": "sa-web.jar",
      "version": "3.1",
      "semanticVersion": "3.1.0",
      "repositoryName": "services-1031"
    },
    {
      "name": "sa-frontend.jar",
      "version": "3.2",
      "semanticVersion": "3.2.0",
      "repositoryName": "services-1031"
    }
  ],
  "pipelineName": "spring-boot-app",
  "taskExecutionNumber": "160",
  "stageName": "Build",
  "branchName": "primary"
}'
```

```
{
  "result": {
    "status": "Success",
    "response": {
      "artifact_repository": {
        "create": [
          {
            "id": "2e50ba8bdbaa4010bc8cdd384b961988"
          }
        ],
        "update": [],
        "found": [
          {
            "id": "2e50ba8bdbaa4010bc8cdd384b961988"
          }
        ]
      },
      "artifact": {
        "create": [
          {
            "id": "6a50f603dbea4010bc8cdd384b96193d"
          },
          {
            "id": "2e50f603dbea4010bc8cdd384b96193f"
          }
        ],
        "update": [],
        "found": []
      },
      "artifact_version": {
        "create": [
          {
            "id": "a650f603dbea4010bc8cdd384b96193e"
          },
          {
            "id": "6250f603dbea4010bc8cdd384b961940"
          }
        ],
        "update": [],
        "found": []
      },
      "artifact_register_requests": {
        "create": [
          {
            "id": "6250f603dbea4010bc8cdd384b96193f"
          },
          {
            "id": "6650f603dbea4010bc8cdd384b961940"
          }
        ],
        "update": [],
        "found": []
      }
    }
  }
}
```

POST /devops/onboarding/app

Creates an onboarding app event that is asynchronously processed by the DevOps service.

This endpoint can perform the following actions:

- Create applications.
- Associate DevOps objects such as, plan, repository, and pipeline, to an application.
- Create a change step record and associate a change approval process to a pipeline.

All of these actions are tool and capability specific. The following table outlines the actions available for each supported tool.

Tool	Capabilities	Actions		
		App Association	Configure	Change Step creation
ServiceNow Agile	Plans	✓	NA	NA
Azure	Plans	✓	NA	NA
	Repos	✓	NA	NA
	Pipelines	✓	NA	✓
BitBucket	Repos	✓	✓	NA
GitHub	Repos	✓	✓	NA
GitLab	Repos	✓	✓	NA
	Pipelines	✓	✓	✓
Jenkins	Pipelines	✓	NA	✓
Jira	Plans	✓	NA	NA

Note: Available versions are specified in the [REST API Explorer](https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference) (<https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference>). For scripted REST APIs there is additional version information on the [Scripted REST Service form](https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference) (https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/onboarding/app
Versioned URL	/api/sn_devops/{api_version}/devops/onboarding/app

Path parameters

Name	Description
api_version	Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest. Data type: String

Query parameters

Name	Description
None	

Request body parameters

Name	Description
apps	<p>Array of objects that define the apps to create within the associated ServiceNow instance.</p> <p>Data type: Array</p> <pre>"apps": [{"businessApp": "String", "name": "String"}]</pre>
apps.businessApp	<p>Name of the cmdb_ci_business_app to which map the application. This ties the DevOps application to the specified CMDB application.</p> <p>Data type: String</p>
apps.name	<p>Required. User friendly name of the application to create to create. An app is a DevOps product container object that ties plans, repositories, and pipelines together.</p> <p>Data type: String</p>
credentials	<p>Required. Credentials to use for the webhook creation. The created webhook is used by the tool to send notifications.</p> <p>Data type: Object</p> <pre>"credentials": {"name": "String", "password": "String"}</pre>
credentials.name	<p>Required. ServiceNow user ID of the user making the endpoint request. This user must have the devops.integration.user role. Starting with version 1.34.1, this user must have the sn_devops.admin role.</p> <p>Data type: String</p> <p>Table: User [sys_user]</p>
credentials.password	<p>Required. Password of the user specified in the credentials.name parameter.</p> <p>Data type: String</p>
pipelines	<p>List of pipelines to associate with applications.</p> <p>Data type: Array of Objects</p> <pre>"pipelines": [{"app": "String", "name": "String", "tool": "String"}]</pre>
pipelines.app	<p>Required if a pipelines object is specified. Name of the application to associate with the plan specified in the pipelines.name parameter. The application must have already been created or be specified in the apps object of this request.</p> <p>Data type: String</p>

Change steps to create for the pipeline specified in the pipelines.name field.

Data type: Array of Objects

`pipelines.changeSteps`

```
"changeSteps": [{}  
  "changeApprovalGroup": "String",  
  "changeControlledBranches": "String",  
  "changeType": "String",  
  "name": "String",  
  "type": "String"  
]
```

`pipelines.changeSteps.changeApprovalGroup`

Required if a changeSteps object is specified. Name of the change approval group to associate with the pipeline. This group must already exist on the ServiceNow instance.

Data type: String

Table: Group [sys_user_group]

`pipelines.changeSteps.changeControlledBranches`

Comma-separated list of code branches that are under change control. This only applies for multi branch support.

Data type: String

Default: * (all branches)

`pipelines.changeSteps.changeType`

Required if a changeSteps object is specified. Type of change request to create.

Data type: String

Table: In the Type field of the Change Request [change_request] table.

`pipelines.changeSteps.name`

Required if a changeSteps object is specified. Name of the step to create. The step name must match the name of the corresponding step in the orchestration tool's pipeline.

Data type: String

`pipelines.changeSteps.type`

Required if a changeSteps object is specified. Type of step to create.

Data type: String

Table: In the Type field of the Steps [sn_devops_step] table.

`pipelines.name`

Required if a pipelines object is specified. Name of the pipeline to associate with the application specified in pipelines.app parameter. This pipeline must already be discovered on the ServiceNow instance.

Data type: String

`pipelines.project`

Required if a `pipelines` object is specified and the pipelines.tool supports projects entity (for example, the ADO tool). Project to associate with the pipeline to create a unique pipeline/tool identifier. Parameter value must derive from a project in the Project [sn_devops_project] table.

Data type: String

`pipelines.tool`

Required if a pipelines object is specified. Tool to associate with the pipeline to create a unique pipeline/tool identifier.

Data type: String

List of plans to associate with an application.

Data type: Array of Objects

plans

```
"plans": [{}  
    "app": "String",  
    "name": "String",  
    "tool": "String"  
]
```

plans.apps

Required if a plans object is specified. Names of applications to associate with the plan specified in the plans.name parameter. These applications must have already been created or be specified in the apps object of this request.

Data type: Array of Strings

plans.name

Required if a plans object is specified. Name of the plan to associate with the application specified in plans.app parameter. This plan must already be discovered on the ServiceNow instance.

Data type: String

plans.project

Required if a `plans` object is specified and the `plans.tool` supports projects entity (for example, the ADO tool). Tool to associate with the pipeline to create a unique plans/tool identifier. Parameter value must derive from a project in the Project [sn_devops_project] table.

Data type: String

plans.tool

Required if a plans object is specified. Tool to associate with the plan to create a unique plan/tool identifier.

Data type: String

List of repositories associated with an application. If the repositories object contains an app parameter, then it maps the repository to the application.

Data type: Array of Objects

repositories

```
"repositories": [{}  
    "app": "String",  
    "name": "String",  
    "tool": "String"  
]
```

repositories.app

Required if a repositories object is specified. Name of the application to associate with this repository. The application must have already been created or be specified in the apps object of this request.

Data type: String

repositories.name

Required if a repositories object is specified. Name of the repository to associate with the application specified in repositories.app parameter. This repository must already be discovered on the ServiceNow instance.

Data type: String

repositories.project

Required if a `repositories` object is specified and the `repositories.tool` supports a projects entity (for example, the ADO tool). Tool to associate with the repositories to create a unique repository/tool identifier. Parameter value must derive from a project in the Project [sn_devops_project] table.

Data type: String

repositories.tool	Required if a repositories object is specified. User friendly tool name to associate with the repository to create a unique repository/tool identifier. The tool must already be created on the ServiceNow instance. Data type: String
artifactRepositories.app	Required if the <code>artifactRepositories</code> object is specified. Name of the application to associate with this artifactRepositories. The application must have already been created or be specified in the <code>apps</code> object of this request. Data type: String
artifactRepositories.name	Required if the <code>artifactRepositories</code> object is specified. Name of the artifactRepositories to associate with the application specified in <code>artifactRepositories.app</code> parameter. This artifactRepositories must already be discovered on the ServiceNow instance. Data type: String
artifactRepositories.tool	Required if the <code>artifactRepositories</code> object is specified. User friendly tool name to associate with the artifactRepositories to create a unique artifactRepositories /tool identifier. The tool must already be created on the ServiceNow instance. Data type: String
artifactRepositories.project	Required if the <code>artifactRepositories</code> object is specified and the repositories.tool supports projects entity (for example, the ADO tool). Tool to associate with the artifactRepositories to create a unique pipeline/tool identifier. Data type: String

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html).

Request headers

Header	Description
Accept	Data format of the response body. Only supports application/json.
Content-Type	Data format of the request body. Only supports application/json.

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
202	Onboarding request was successfully created.

Curl

This creates the application Bike Rental Service and associates it with the Jenkins pipeline Bike Rentals, the GitHub repository nowDevops01/CorpSite, and the Azure plan testPlan_Bike_Rental.

```

curl -X POST "https://servicenow-instance/api/sn_devops/v1/devops/onboarding/app" \
-H "Accept: application/json" \
-H "Content-Type: application/json" \
-u "username":"password" \
-d "{
  "apps": [
    {
      "name": "Bike Rental Service"
    }
  ],
  "pipelines": [
    {
      "tool": "Primary Jenkins",
      "name": "Bike Rentals",
      "app": "Bike Rental Service",
      "changeSteps": [
        {
          "name": "Prod",
          "type": "deploy",
          "changeApprovalGroup": "Change Management",
          "changeType": "normal"
        }
      ]
    }
  ],
  "repositories": [
    {
      "tool": "Primary GitHub",
      "name": "nowDevops01/CorpSite",
      "app": "Bike Rental Service"
    }
  ],
  "plans": [
    {
      "tool": "Primary Azure",
      "name": "testPlan_Bike_Rental",
      "project": "DemoProjecttt",
      "apps": [
        "Bike Rental Service"
      ]
    }
  ],
  "artifactRepositories": [
    {
      "tool": "AdoTool",
      "name": "empb5-sonar",
      "apps": [
        "appXXXXtz"
      ]
    }
  ]
}

"credentials" : {
  "name": "devops_user",
  "password": "devops_password"
}
}
```

```
{
  "result":{
    "status": "Success",
    "details": "Onboarding request has been created. Please use the /status api and the onboarding request number to get the status",
    "onboardingRequestID": "IBE0001045",
    "code": "202"
  }
}
```

POST /devops/onboarding/tool

Creates an onboarding tool event that is asynchronously processed by the DevOps service.

Depending on the type of tool for which the request is posted, the endpoint performs the following actions:

- Creates the tool within the associated ServiceNow instance
- Connects to the tool
- Tries to configure the tool (only if the connection is successful)
- Discovers the tool (only if the connection is successful)

All of these actions are tool specific and are executed based on the integration capabilities for the specified tool.

Tool	Action			
	Create	Connect	Discover	Configure
ServiceNow Agile	✓	✓	✓	NA
Azure	✓	✓	✓	✓
BitBucket	✓	✓	✓	✗
GitHub	✓	✓	✓	✗
GitLab	✓	✓	✓	✗
Jenkins	✓	✓	✓	✗
Jira	✓	✓	✓	✓

The return results for this endpoint only indicate whether the request was posted, it does not indicate whether the associated tools were created. The actual tool creation is processed asynchronously. To obtain the status of the tool creation and all other actions, you must call the [/devops/onboarding/status](#) ([/dev.do#!/reference/api/zurich/rest/devops-api#devops-GET-onboarding-status](#)) endpoint and pass in the onboardingRequestId parameter that is returned by this endpoint.

Before you are able to access this endpoint, your admin must have configured the DevOps connection and credential alias (CreateDevOpsTool) to setup tools in the instance. For details, see [Install DevOps Change Velocity](#) (<https://docs.servicenow.com/csh?topicname=activate-dev-ops&version=zurich&pubname=zurich-it-service-management>). In addition, the calling entity must have the devops.integration.user role.

Note: Available versions are specified in the [REST API Explorer](#) (<https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference>). For scripted REST APIs there is additional version information on the [Scripted REST Service form](#) (https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/onboarding/tool
Versioned URL	/api/sn_devops/{api_version}/devops/onboarding/tool

Path parameters

Name	Description
api_version	Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest. Data type: String

Query parameters

Name	Description
None	

Request body parameters

Name	Description
credentials	<p>Required. Credentials to use for the webhook creation. The tool uses the created webhook to send notifications.</p> <p>Data type: Object</p> <pre>"credentials": { "name": "String", "password": "String" }</pre>
credentials.name	<p>Required. ServiceNow identifier of the user making the endpoint request. This user must have the devops.integration.user role. Starting with version 1.34.1, this user must have the sn_devops.admin role.</p> <p>Data type: String</p> <p>Table: User [sys_user]</p>
credentials.password	<p>Required. Password of the user specified in the credentials.name parameter.</p> <p>Data type: String</p>
tools	<p>Required. Tools to create within the associated ServiceNow instance. You can create one or more tools in a single request.</p> <p>Data type: Array of Objects</p> <pre>"tools": [{ "name": "String", "password": "String", "type": "String", "useMidServer": Boolean, "username": "String", "url": "String" }]</pre>
tools.name	<p>Required. User friendly name or label of the tool to create. This name is used to identify the tool in the DevOps service.</p> <p>Data type: String</p>
tools.password	<p>Required except for Agile tool. Password to use to access the tool. Supported authentications are basic and token; OAuth is not supported.</p> <p>Data type: String</p>
tools.type	<p>Required. Type of tool to create, such as GitHub or BitBucket. The specified value must be one of the Tool labels in the Tool Integrations [sn_devops_tool_integration] table.</p> <p>Data type: String</p>
tools.useMidServer	<p>Flag that indicates whether the tool connects through a MID Server.</p> <p>Valid values:</p> <ul style="list-style-type: none"> • true: Connects through a MID Server. • false: Does not connect through a MID Server. <p>Data type: Boolean</p>

tools.username	Required except for Agile tool. User name to use to access the tool through this endpoint. Data type: String
tools.url	Required except for Agile tool. URL of the tool to create. The DevOps service uses this URL to integrate with the tool. If using the 'Azure DevOps' tool, tools.url can contain either the ADO Organization URL or the ADO Project URL. When providing an ADO Organization URL, the API discovers all projects under the specified organization and does not configure any projects. When providing an ADO Project URL, the API discovers entities related to the project like (pipelines, repositories, and plans) and also configures a project if the credentials object is present. To explicitly tell the API to skip the project configuration, configure a flag configureTool (type: boolean) to <code>false</code> . If configureTool is not explicitly provided in the payload or is set to <code>true</code> , the tool is automatically configured. Data type: String

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html).

Request headers

Header	Description
Accept	Data format of the response body. Only supports application/json.
Content-Type	Data format of the request body. Only supports application/json.

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
202	Onboarding request was successfully created.

Curl

The following shows how to onboard GitHub.

```
curl -X POST "https://servicenow-instance/api/sn_devops/v1/devops/onboarding/tool" \
-H "Accept: application/json" \
-H "Content-Type: application/json" \
-u "username":"password" \
-d {
  "tool": [
    {
      "name": "Primary GitHub",
      "type": "GitHub",
      "url": "https://api.github.com",
      "username": "username",
      "password": "password",
      "useMidServer": false
    }
  ],
  "credentials" : {
    "name": "devops_user",
    "password": "devops_password"
  }
}
```

```
{
  "result": {
    "status": "Success",
    "details": "Onboarding request has been created. Please use the /status api and the onboarding request number to get the status of the request.",
    "onboardingRequestID": "IBE0001041",
    "code": "202"
  }
}
```

POST /devops/orchestration/changeControl

Registers a callback with a ServiceNow instance for an orchestration task under change control, which can be called once a decision has been made on the change request.

Before you call this endpoint, you must have an orchestration task created in your ServiceNow instance. You can create this task either through Discovery or by calling the [DevOps - POST /devops/orchestration/stepMapping](#) ([dev.do#!/reference/api/zurich/rest/devops-api#devops-POST-orch-stepMapping](#)). endpoint. You must also ensure that the orchestration task is associated to a previously defined pipeline step and that change control is enabled (by selecting the Change control option on the App Stage form.) For details, see [Accelerating DevOps change](#) (<https://docs.servicenow.com/csh?topicname=dev-ops-change-acceleration&version=zurich&pubname=zurich-it-service-management>).

Note: Available versions are specified in the [REST API Explorer](#) (<https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference>). For scripted REST APIs there is additional version information on the [Scripted REST Service form](#) (https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/orchestration/changeControl
Versioned URL	/api/sn_devops/{api_version}/devops/orchestration/changeControl

Path parameters

Name	Description
api_version	Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest. Data type: String

Query parameters

Name	Description
toolId	Required. Sys_id of the DevOps tool for which to place the specified task under change control. Data type: String Table: Orchestration Tool [sn_devops_orchestration_tool]
toolType	Type of tool. Valid value: Any value that identifies the tool, such as "jenkins". Data type: String

Request body parameters

Name	Description
callbackURL	<p>Required. URL that the ServiceNow instance can call back once the associated change request approval process is complete. This callback should let the pipeline execution continue or not, based on the approval result.</p> <p>Data type: String</p>
changeRequestDetails	<p>Name-value pairs of the fields to set when closing a change request. This object can contain any fields in the Change Request record except the following:</p> <ul style="list-style-type: none"> • impact • number • risk • risk_impact_analysis • sys_id <p>If these fields are included in the request, the endpoint returns a 400 error and the change request is not updated. Also, if you include fields that require other mandatory fields to be set, and those fields are not sent, the request will fail during later processing of the pipeline. This failure is noted in the work notes of the change request, along with an error message for that particular change request, such as: Change request update failed with reason: <Error Message from platform>. Canceling change request and the related step execution.</p> <p>You can also pass the boolean parameter setCloseCode in this object to specify whether to set closure information on the associated Change Request record.</p> <ul style="list-style-type: none"> • If set to true, the close_code field is set to the status of the job and the close_notes field is set to a link to the step execution in the associated Change Request record. The default value is true. • If set to false, the close_code and close_notes fields are not set and a link to the step execution is set in the work_notes field. <p>Data type: Object</p>
isMultiBranch	<p>If the orchestration tool is Jenkins, flag that indicates whether the project is of type Multibranch.</p> <p>Valid values:</p> <ul style="list-style-type: none"> • true: Project is of type Multibranch. • false: Project is not of type Multibranch. <p>Data type: Boolean</p> <p>Default: false</p>
orchestrationTaskDetails	<p>Required. Description of the orchestration task.</p> <p>Data type: Object</p> <pre>"orchestrationTaskDetails": { "message": "String", "triggerType": "String", "upstreamTaskExecutionURL": "String" }</pre>
orchestrationTaskDetails.message	<p>Free-form text message.</p> <p>Data type: String</p>

Required. The way the orchestration task was started.

Valid values:

`orchestrationTaskDetails.triggerType`

- `scm`: Git/scm tool code commit triggered the job.
- `upstream`: Upstream job triggered this job.
- `user`: User manually started the job.

Data type: String

Required if triggerType is set to `upstream`. Upstream task execution URL.

`orchestrationTaskDetails.upstreamTaskExecutionURL`

For example: <https://jenkins.mycompany.com:8080/job/Mobile-Platform-test/40/>

Data type: String

Required. URL of the orchestration task for which to create the call back.

`orchestrationTaskURL`

For example: https://jenkins.mycompany.com:8080/orchestration_task/Mobile-Platform-deploy/

Data type: String

If the orchestration task is a child nested inside a parent orchestration task, this value contains the parent node details.

Data type: Object

`parentNode`

```
"parentNode": {
  "id": "String",
  "name": "String",
  "upstreamStageName": "String",
  "upstreamTaskExecutionURL": "String"
}
```

Unique ID for the parent node.

`parentNode.id`

In Jenkins, this value corresponds to a pipeline stage ID.

Data type: String

Name of the parent node.

`parentNode.name`

In Jenkins, this value corresponds to a pipeline stage name.

Data type: String

Name of the parent node's upstream orchestration task.

`parentNode.upstreamStageName`

In Jenkins, this value corresponds to a pipeline stage name.

Data type: String

URL of the parent node's upstream task execution.

`parentNode.upstreamTaskExecutionURL`

In Jenkins, this value corresponds to a pipeline stage execution URL.

Data type: String

If the orchestration task is a child nested inside a parent orchestration task, the name of the parent orchestration task.

`parentStageName`

Data type: String

parentStageURL	If the orchestration task is a child nested inside a parent orchestration task, the URL of the parent orchestration task. Data type: String
----------------	--

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html).

Request headers

Header	Description
Accept	Data format of the response body. Supported types: application/json or application/xml. Default: application/json
Authorization	Starting with v2, this API supports token-based authentication. Tokens can be acquired by clicking the Copy token button on the tool record, located in the Tool [sn_devops_tool] table. The token can then be used in an authorization header in the format <code>Authorization: sn_devops.DevOpsToken <tool_sys_id>: <tool_token></code> . Note: If Basic Auth details (user name and password) are provided in addition to an authorization header with token, Basic Auth takes precedence.
Content-Type	Data format of the request body. Only supports application/json.

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
201	Request completed successfully.
400	Bad Request. A bad request type or malformed request was detected.
401	Invalid or missing authentication.
500	Internal server error. An unexpected error occurred while processing the request. The response contains additional information about the error.

Curl

```
curl -X POST "https://instance.servicenow.com/api/sn_devops/v1/devops/orchestration/changeControl?toolId=f0
-H "accept: application/json"\n
-H "Content-Type: application/json"\n
-u "username":"password"\n
-d "{\n    \"orchestrationTaskURL\":\"https://jenkins.mycompany.com:8080/orchestration_task/Mobile-Platform-deploy/\",\n    \"callbackURL\":\"https://jenkins.mycompany.com:8080/sn-devops/964aca59-0cae-4d9b-a36d-5929f426cf31\",\n    \"orchestrationTaskDetails\":{\n        \"message\":\"Started by upstream project \\"Mobile-Platform-test\\\" build number 40\",\n        \"triggerType\":\"upstream\",,\n        \"upstreamTaskExecutionURL\":\"https://jenkins.mycompany.com:8080/job/Mobile-Platform-test/40/\"}\n}"
```

body.

```
{
  "result": {
    "changeControl": true,
    "status": "Success"
  }
}
```

Curl

This shows how to pass fields in the changeRequestDetails object when closing a change request.

```

curl -X POST "https://instance.servicenow.com/api/sn_devops/v1/devops/orchestration/changeControl?toolId=f0
-H "accept: application/json"\n
-H "Content-Type: application/json"\n
-u "username":"password"\n
-d "{
  \"callbackURL\":\"http://192.168.0.4:3000/jenkins/sn-devops/pipeline_839b7605-b98d-4831-bc87-96829de7da37\",
  \"orchestrationTaskURL\":\"http://192.168.0.4:3000/jenkins/job/java_sample_tests#deploy\",
  \"isMultiBranch\":\"false\",
  \"orchestrationTaskName\":\"java_sample_tests#deploy\",
  \"orchestrationTaskDetails\":{
    \"triggerType\":\"upstream\",
    \"upstreamTaskExecutionURL\":\"http://192.168.0.4:3000/jenkins/job/java_sample_tests/129/execution/node/35\",
    \"taskExecutionURL\":\"http://192.168.0.4:3000/jenkins/job/java_sample_tests/129/execution/node/50/wfapi/d
  },
  \"changeRequestDetails\":{
    \"setCloseCode\":false,
    \"attributes\":{
      \"sys_created_by\":\"1832fbe1d701120035ae23c7ce610369\",
      \"sys_updated_by\":\"56826bf03710200044e0bfc8bcbe5dca\",
      \"requested_by\":{
        \"name\":\"test user1\"
      },
      \"watch_list\"::[
        {
          \"name\":\"test user1\"
        },
        {
          \"name\":\"test user2\"
        },
        {
          \"name\":\"Alejandra Prenatt\"
        },
        \"56826bf03710200044e0bfc8bcbe5dca\"
      ],
      \"work_notes_list\"::[
        \"56826bf03710200044e0bfc8bcbe5dca\",
        \"46c6f9efa9fe198101ddf5eed9adf6e7\",
        \"d8f57f140b20220050192f15d6673a98\"
      ],
      \"assigned_to\":\"1832fbe1d701120035ae23c7ce610369\",
      \"category\":\"Service\",
      \"sys_created_on\":\"2021-02-09 18:58:41\",
      \"priority\":\"2\",
    }
  }
}"

```

body.

```
{
  "result": {
    "changeControl": true,
    "status": "Success"
  }
}
```

POST /devops/orchestration/stepMapping

Verifies that the information being passed is valid for the creation of an orchestration task and is valid for association to a previously created step. If both are valid, it creates the orchestration task and makes the association.

Note: Available versions are specified in the [REST API Explorer](https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference) (<https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference>). For scripted REST APIs there is additional

version information on the [Scripted REST Service form](https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference) (https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/orchestration/stepMapping
Versioned URL	/api/sn_devops/{api_version}/devops/orchestration/stepMapping

Path parameters

Name	Description
api_version	Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest. Data type: String

Query parameters

Name	Description
toolId	Required. Sys_id of the orchestration tool. Located in the Orchestration Tool [sn_devops_orchestration_tool] table. Data type: String
toolType	Required. Type of tool. Valid values: jenkins Data type: String

Request body parameters

Name	Description
branchName	<p>Name of the branch associated with the orchestration task.</p> <p>Data type: String</p>
isMultiBranch	<p>If the orchestration tool is Jenkins, flag that indicates whether the project is of type Multibranch.</p> <p>Valid values:</p> <ul style="list-style-type: none"> • true: Project is of type Multibranch. • false: Project is not of type Multibranch. <p>Data type: Boolean</p> <p>Default: false</p>
parentNode	<p>If the orchestration task is a child nested inside a parent orchestration task, this value contains the parent node details.</p> <p>Data type: Object</p> <pre>"parentNode": { "id": "String", "name": "String", "upstreamStageName": "String", "upstreamTaskExecutionURL": "String" }</pre>
parentNode.id	<p>Unique ID for the parent node.</p> <p>In Jenkins, this value corresponds to a pipeline stage ID.</p> <p>Data type: String</p>
parentNode.name	<p>Name of the parent node.</p> <p>In Jenkins, this value corresponds to a pipeline stage name.</p> <p>Data type: String</p>
parentNode.upstreamStageName	<p>Name of the parent node's upstream orchestration task.</p> <p>In Jenkins, this value corresponds to a pipeline stage name.</p> <p>Data type: String</p>
parentNode.upstreamTaskExecutionURL	<p>URL of the parent node's upstream task execution.</p> <p>In Jenkins, this value corresponds to a pipeline stage execution URL.</p> <p>Data type: String</p>
parentStageName	<p>If the orchestration task is a child nested inside a parent orchestration task, the name of the parent orchestration task.</p> <p>Data type: String</p>
parentStageURL	<p>If the orchestration task is a child nested inside a parent orchestration task, the URL of the parent orchestration task.</p> <p>Data type: String</p>

orchestrationTaskName	Required. Name of the orchestration task. This is the same task referenced in the orchestrationTaskURL. Data type: String
orchestrationTaskURL	Required. URL of the orchestration task. For example: https://jenkins.mycompany.com:8080/orchestration_task/Mobile-Platform-deploy/ Data type: String

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html).

Request headers

Header	Description
Accept	Data format of the response body. Only supports application/json.
Authorization	<p>Starting with v2, this API supports token-based authentication. Tokens can be acquired by clicking the Copy token button on the tool record, located in the Tool [sn_devops_tool] table. The token can then be used in an authorization header in the format <code>Authorization: sn_devops.DevOpsToken <tool_sys_id>: <tool_token></code>.</p> <p>Note: If Basic Auth details (user name and password) are provided in addition to an authorization header with token, Basic Auth takes precedence.</p> <p>If the devops.system user is not available in your instance, use the Switch to this user after token based authentication is successful property. This property enables setting any user that has the sn_devops.integration role, which is needed to complete the token authentication. For information, see DevOps Change Velocity.properties (https://docs.servicenow.com/csh?topicname=dev-ops-administration&version=zurich&pubname=zurich-it-service-management).</p>
Content-Type	Data format of the request body. Only supports application/json.

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
201	Successful. The request was successfully processed.
400	Bad Request. A bad request type or malformed request was detected.
401	Unauthorized. The user credentials are incorrect or have not been passed.
500	Internal server error. An unexpected error occurred while processing the request. The response contains additional information about the error.

Curl

```
curl -X POST "https://instance.servicenow.com/api/sn_devops/v1/devops/orchestration/stepMapping?toolId=f0ca...
-H "Accept: application/json"\...
-H "Content-Type: application/json"\...
-u "username":"password"\...
-d "{\"orchestrationTaskURL\":\"http://127.0.0.1:8090/jenkins/job/CorpSite/job/primary#deploy PROD\",
\"orchestrationTaskName\":\"primary#deploy PROD\"}"
}"
```

Results if information is invalid.

```
{
  "result": {
    "stepValid": false,
    "status": "Success"
  }
}
```

POST /devops/package/registration

Enables orchestration tools to create new artifact packages that contain specified artifact versions.

Artifact packages are used to display commits to change approvers when they view a change request. For commits to show in change requests, the package must be created in the stage prior to the stage containing the change approval.

Any artifact versions included in the package registration request should already be registered with DevOps. For details on registering artifact versions, see [DevOps - POST /devops/artifact/registration](#) ([dev.do#!/reference/api/zurich/rest/devops-api#devops-POST-artifact-registration](#)).

Typically, you will pass in the artifacts.version and artifacts.name parameters when identifying an artifact version to include in a package. You can also use the advanced features of this endpoint which allows you to pass the build details for each artifact version instead of the version itself. Artifact-specific build details include the following parameters:

- artifacts.pipelineName or artifacts.projectName
- artifacts.taskExecutionNumber
- artifacts.stageName
- artifacts.branchName

The endpoint uses these artifact-specific build details to look up task execution information and then copies the associated versions to the package. It uses non-artifact specific build details (pipelineName or projectName, taskExecutionNumber, branchName, and stageName) to associate the created package to a pipeline execution.

Note: This endpoint does not support updates. It always creates a new package even if one with same name already exists.

For additional information on artifact packages, see [Using DevOps change acceleration for releases](https://docs.servicenow.com/csh?topicname=using-dev-ops-change-acceleration-for-releases&version=zurich&pubname=zurich-it-service-management) (<https://docs.servicenow.com/csh?topicname=using-dev-ops-change-acceleration-for-releases&version=zurich&pubname=zurich-it-service-management>).

Note: Available versions are specified in the [REST API Explorer](https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference) (<https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference>). For scripted REST APIs there is additional version information on the [Scripted REST Service form](https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference) (https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/package/registration
Versioned URL	/api/sn_devops/{api_version}/devops/package/registration

Path parameters

Name	Description
api_version	Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest. Data type: String

Query parameters

Name	Description
orchestrationToolId	Required. Sys_id of the orchestration tool associated with the artifact package. The endpoint uses this information to locate task execution information. Data type: String Table: Orchestration Tool [sn_devops_orchestration_tool]
toolId	Sys_id of the artifact tool associated with the artifact package. Data type: String Table: Artifact Tool [sn_devops_artifact_tool]

Request body parameters

Name	Description
artifacts	<p>At least one entry required. Array of objects in which each object uniquely identifies an artifact version to include in the package.</p> <p>Data type: Array of Objects</p> <pre>"artifacts": [{ "branchName": "String", "name": "String", "pipelineName": "String", "projectName": "String", "repositoryName": "String", "stageName": "String", "taskExecutionNumber": "String", "version": "String" }]</pre>
artifacts.branchName	<p>Required if artifact.version is not passed and it is a multi-branch setup. Name of branch in which the artifact versions are stored.</p> <p>Data type: String</p> <p>Maximum length: 160</p> <p>Default: Null</p>
artifacts.name	<p>Required. Artifact file name.</p> <p>Data type: String</p> <p>Maximum length: 160 characters</p>
artifacts.pipelineName	<p>Required if artifact.version and artifacts.projectName are not passed. Pipeline name.</p> <p>Data type: String</p> <p>Maximum length: 160</p> <p>Default: Null</p>
artifacts.projectName	<p>Required if artifact.version and artifact.pipelineName are not passed. Free-form project name.</p> <p>Data type: String</p> <p>Maximum length: 160</p> <p>Default: Null</p>
artifacts.repositoryName	<p>Required. Artifact repository name.</p> <p>Data type: String</p> <p>Maximum length: 160 characters</p>
artifacts.stageName	<p>Required if artifact.version is not passed. Stage name.</p> <p>Data type: String</p> <p>Maximum length: 160</p> <p>Default: Null</p>

	Required if artifact.version is not passed. Pipeline run number.
artifacts.taskExecutionNumber	Data type: String Default: Null
	Required if build details are not provided. Version of the artifacts.
artifacts.version	Data type: String Format: <Major>.<Minor> Default: Null
	Required if it is multi-branch project. Name of the branch in the repository where the artifacts are stored.
branchName	Data type: String Maximum length: 200 characters Default: Null
	Required. Name of package.
name	Data type: String Maximum length: 160 characters
	Required if projectName is not passed. Pipeline name.
pipelineName	Data type: String Maximum length: 160 characters Default: Null
	Required if pipelineName is not passed. Free-form project name.
projectName	Data type: String Maximum length: 160 Default: Null
	Required if pipelineName is passed. Stage name.
stageName	Data type: String Maximum length: 160 characters Default: Null
	Required. Pipeline run number.
taskExecutionNumber	Data type: String Maximum length: 128 characters Default: Null

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](#) (<https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound->

[rest/concept/c_RESTAPI.html](#)).

Request headers

Header	Description
Accept	Data format of the response body. Only supports application/json.
Authorization	<p>Starting with v2, this API supports token-based authentication. Tokens can be acquired by clicking the Copy token button on the tool record, located in the Tool [sn_devops_tool] table. The token can then be used in an authorization header in the format <code>Authorization: sn_devops.DevOpsToken <tool_sys_id>: <tool_token></code>.</p> <p>Note: If Basic Auth details (user name and password) are provided in addition to an authorization header with token, Basic Auth takes precedence.</p> <p>If the devops.system user is not available in your instance, use the Switch to this user after token based authentication is successful property. This property enables setting any user that has the sn_devops.integration role, which is needed to complete the token authentication. For information, see DevOps Change Velocity.properties (https://docs.servicenow.com/csh?topicname=dev-ops-administration&version=zurich&pubname=zurich-it-service-management).</p>
Content-Type	Data format of the request body. Only supports application/json.

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
200	Success. Success with response body.
201	Created. Success with response body.
400	Bad Request. The request URI does not match the APIs in the system, or the operation failed for unknown reasons. Invalid headers can also cause this error.
500	Internal server error. An unexpected error occurred while processing the request. The response contains additional information about the error.

Curl

```
# Example passing the artifact version
curl -X POST "https://instance.servicenow.com/api/sn_devops/devops/package/registration?toolId=f0ca45679323"
-H "accept: application/json"\n
-H "Content-Type: application/json"\n
-u "username":"password"\n
-d "{\n  \"name\": \"sentimentpackage\", \n  \"artifacts\": [\n    {\n      \"name\": \"sa-web.jar\", \n      \"repositoryName\": \"services-1031\", \n      \"version\": \"3.1\"\\n    },\n    {\n      \"name\": \"sa-frontend.jar\", \n      \"repositoryName\": \"services-1031\", \n      \"version\": \"9.2\"\\n    }\n  ],\n  \"pipelineName\": \"spring-boot-app\", \n  \"taskExecutionNumber\": \"160\", \n  \"stageName\": \"Build\", \n  \"branchName\": \"primary\"\\n}\n"
```

- package created:

```
"result": {
  "status": "Success",
  "response": {
    "sn_devops_package": {
      "create": [
        {
          "id": "0d57367a532e00107109ddeeff7b122a"
        }
      ],
      "update": [],
      "found": []
    },
    "sn_devops_m2m_artifact_version_package": {
      "create": [
        {
          "id": "c957367a532e00107109ddeeff7b122b"
        },
        {
          "id": "8157367a532e00107109ddeeff7b122c"
        }
      ],
      "update": [],
      "found": []
    }
  },
  "responseCode": 201
}
```

Curl

```
# Example passing the build details
curl -X POST "https://instance.servicenow.com/api/sn_devops/devops/package/registration?toolId=f0ca45679323"
-H "accept: application/json"\n
-H "Content-Type: application/json"\n
-u "username":"password"\n
-d "{\n  \"name\": \"sentimentpackage\", \n  \"artifacts\": [\n    {\n      \"name\": \"sa-web.jar\", \n      \"repositoryName\": \"services-1031\", \n      \"pipelineName\": \"spring-boot-app\", \n      \"taskExecutionNumber\": \"160\", \n      \"stageName\": \"Build\", \n      \"branchName\": \"primary\" \n    },\n    {\n      \"name\": \"sa-frontend.jar\", \n      \"repositoryName\": \"services-1031\", \n      \"pipelineName\": \"spring-boot-fe\", \n      \"taskExecutionNumber\": \"991\", \n      \"stageName\": \"Build\", \n      \"branchName\": \"primary\" \n    }\n  ],\n  \"pipelineName\": \"spring-boot-app\", \n  \"taskExecutionNumber\": \"160\", \n  \"stageName\": \"Build\", \n  \"branchName\": \"primary\" \n}"
}"
```

- request created a staged package:

```
{
  "result": {
    "status": "Success",
    "response": {
      "artifact_register_requests": {
        "create": [
          {
            "id": "4628f276532e00107109ddeeff7b1245"
          },
          {
            "id": "4e28f276532e00107109ddeeff7b1245"
          },
          {
            "id": "ce28f276532e00107109ddeeff7b1245"
          }
        ],
        "update": [],
        "found": []
      }
    },
    "responseCode": 201
  }
}
```

POST /devops/tool/{capability}

Posts the passed in payload to the Inbound Event [sn_devops_inbound] table for processing by a custom DevOps subflow.

Call this endpoint from the associated webhook in your tool, specified by the passed in capability parameter. A custom subflow, to process the passed in payload, must already be defined in your ServiceNow instance. Based on a predefined schedule, the DevOps Master Flow picks up the webhook event information

from the Inbound Event table and passes it to the custom subflow, which then process the payload. For more information on creating a custom subflow, see [Creating DevOps subflows](https://docs.servicenow.com/csh?topicname=creating-dev-ops-subflows&version=zurich&pubname=zurich-it-service-management).

For additional information on test tool integration, see [DevOps test tool integration](https://docs.servicenow.com/csh?topicname=dev-ops-test-tool-integration&version=zurich&pubname=zurich-it-service-management).

Before calling this endpoint for a custom DevOps tool, you must implement the handleTool() and getNativeIdForOrchestrationTask() methods from `sn_devops.DevOpsOrchestrationToolIntegrationHandler`. For more information, see [DevOpsOrchestrationToolIntegrationHandler - Scoped](https://developer.servicenow.com/go_to_api.do?ID=DevOpsOrchToolIntHandlerScopedAPI&v=washingtonondc).

Note: Starting with 1.34.1 version, a new version of this API has been introduced. With this API, Adaptive Authentication policies may not execute as expected. For more information about these policies, see [Adaptive authentication](https://docs.servicenow.com/csh?topicname=adaptive-authentication&version=zurich&pubname=zurich-platform-security).

Note: Available versions are specified in the [REST API Explorer](https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference). For scripted REST APIs there is additional version information on the [Scripted REST Service form](https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/tool/{capability}
Versioned URL	/api/sn_devops/{api_version}/devops/tool/{capability}

Path parameters

Name	Description
api_version	<p>Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest.</p> <p>Data type: String</p>
capability	<p>Type of tool passing in the payload to store in the Inbound Event table. Valid values (not case-sensitive):</p> <ul style="list-style-type: none"> • artifact • code • orchestration • plan • test <p>Data type: String</p>

Query parameters

Name	Description
orchestrationToolId	<p>Optional. Sys_id of the orchestration tool to which the related pipeline belongs. orchestrationToolId is required if the capability request parameter is set to <code>test</code> or <code>softwarequality</code>.</p> <p>The value in the toolId parameter is the default orchestration tool if the orchestrationToolId parameter isn't passed.</p> <p>Data type: String</p>
testType	<p>Required if capability is set to <code>test</code>. Type of test being run.</p> <p>Data type: String</p> <p>Table: The valid values for this parameter are those in the Test type column of the Test Types [sn_devops_test_type] table.</p>
toolId	<p>Required. Sys_id of the tool for which the endpoint is being called.</p> <p>Data type: String</p>

Request body parameters

Name	Description
Tool dependant	The tool determines the content of the payload.

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html).

Request headers

Header	Description
Accept	Data format of the response body. Only supports application/json.
Authorization	<p>Starting with v2, this API supports token-based authentication. Tokens can be acquired by clicking the Copy token button on the tool record, located in the Tool [sn_devops_tool] table. The token can then be used in an authorization header in the format <code>Authorization: sn_devops.DevOpsToken <tool_sys_id>: <tool_token></code>.</p> <p>Note: If Basic Auth details (user name and password) are provided in addition to an authorization header with token, Basic Auth takes precedence.</p> <p>If the devops.system user is not available in your instance, use the Switch to this user after token based authentication is successful property. This property enables setting any user that has the sn_devops.integration role, which is needed to complete the token authentication. For information, see DevOps Change Velocity.properties (https://docs.servicenow.com/csh?topicname=dev-ops-administration&version=zurich&pubname=zurich-it-service-management).</p>
Content-Type	Data format of the request body. Only supports application/json.

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
201	Request completed successfully.
400	Bad Request. A bad request type or malformed request was detected.
401	Invalid or missing authentication.
500	Internal Server Error. A logic error on the server-side code occurred.

Curl

```
curl -X POST "https://instance.service-now.com/api/sn_devops/v1/tool/artifact?toolId=3b59043ee4ea556e6850d6"
-H "accept: application/json"\n
-H "Content-Type: application/json"\n
-u "username":"password"\n
-d "{
  \"artifacts\": [
    {
      \"name\": \"sp-boot-app\",
      \"version\": \"1.320\",
      \"semanticVersion\": \"1.320.0\",
      \"repositoryName\": \"sp-boot-app-repo\"
    }
  ],
  \"pipelineName\": \"spring-boot-app-gitea\",
  \"taskExecutionNumber\": \"320\",
  \"stageName\": \"Build\"
}"
```

Success

```
{
  \"result\": {
    \"status\": \"Success\",
    \"sysId\": \"33c57245dbf68410bc8cdd384b961966\"
  }
}
```

Curl

```
curl -X POST "https://instance.service-now.com/api/sn_devops/v1/tool/artifact?toolId=3b59043ee4ea556e6850d6"
-H "accept: application/json"\n
-H "Content-Type: application/json"\n
-u "username":"password"\n
-d "{\n    \"timestamp\": \"2020-01-11T00:52:01.541+0000\", \n    \"nodeId\": \"137BEECF-E1BF7BC1-90212D1C-0749A6D4-BC670F6B\", \n    \"initiator\": \"admin/172.17.0.1\", \n    \"repositoryName\": \"maven-releases29\", \n    \"action\": \"CREATED\", \n    \"component\": {\n        \"id\": \"2a59043ed2ea556e6850d61bc1a77c7b\", \n        \"componentId\": \"c3AtYm9vdC1hcHAtcmVwbzoyYTU5MDQzzWQyZWE1NTZlNjg1MGQ2MWJjMWE3N2M3Yg\", \n        \"format\": \"maven2\", \n        \"name\": \"sentiment-analysis-web\", \n        \"group\": \"com.spboot\", \n        \"version\": \"1.1\" \n    } \n}"
```

Error

```
{
  "result": {
    "status": "Data Error",
    "details": {
      "errors": [
        {
          "message": "Unsupported capability type"
        }
      ]
    }
  }
}
```

Curl

```
curl "https://instance.service-now.com/api/sn_devops/devops/tool/code?toolId=8d4f56598702c510f894419d0ebb35"
--request POST \
--header "Accept:application/json" \
--header "Content-Type:application/json" \
--data "{
    "commits": [
        {
            "totalFiles": 1,
            "nativeIdList": [
                "49",
                "50"
            ],
            "id": "f14732d0cc854ce3ec374b97ecd4ec3c383386cd",
            "url": "https://dev.azure.com/xyzabcd/adoTests/_git/DeployableRepo/commit/f14732d0cc854ce3ec374b97",
            "apiURL": "https://dev.azure.com/xyzabcd/9fe32a65-60a5-46fe-bc8d-11a92bf059f9/_apis/git/repositories",
            "message": "Fixes #49 and #50",
            "committedDate": "2022-03-23T11:59:46Z",
            "committer": {
                "email": "xyz.abcd@email.com"
            },
            "details": [
                {
                    "action": "edit",
                    "changes": "",
                    "file": "/LICENSE",
                    "additions": 0,
                    "deletions": 0,
                    "totalChanges": 0
                }
            ]
        }
    ],
    "repository": {
        "id": "8d7ba019-1739-431c-beb4-6025dd41f1ac",
        "name": "DeployableRepo",
        "url": "https://dev.azure.com/xyzabcd/adoTests/_git/DeployableRepo"
    },
    "branch": {
        "name": "refs/heads/master",
        "url": "https://dev.azure.com/xyzabcd/adoTests/_git/DeployableRepo?version=GBmaster"
    }
}" \
--user 'username':'password'
```

Success

```
{
    "result": {
        "status": "Success",
        "sysId: "1f8e586b879e85100f71cbfc0ebb3526"
    }
}
```

Curl

```
curl "https://instance.service-now.com/api/sn_devops/devops/tool/orchestration?toolId=8d4f56598702c510f8944"
--request POST \
--header "Accept:application/json" \
--header "Content-Type:application/json" \
--data "{
  \"toolId\": \"d450f5c887e609100f71cbfc0ebb35e5\",
  \"buildNumber\": 5676,
  \"nativeId\": \"adoTests/DeployableRepo#deploy#5676\",
  \"pipelineId\": \"2\",
  \"name\": \"adoTests/DeployableRepo#deploy\",
  \"id\": \"adoTests/DeployableRepo#deploy#5676\",
  \"url\": \"https://dev.azure.com/xyzabcd/_build/results?buildId=5676#deploy/\",
  \"previousAttemptUrl\": \"\",
  \"attemptNumber\": 1,
  \"pipelineExecutionUrl\": \"https://dev.azure.com/xyzabcd/_build/results?buildId=5676\",
  \"orchestrationTaskUrl\": \"https://dev.azure.com/xyzabcd/adoTests/_build?name=DeployableRepo#deploy\",
  \"orchestrationTaskName\": \"adoTests/DeployableRepo #deploy\",
  \"orchestrationTask\": {
    \"orchestrationTaskName\": \"adoTests/DeployableRepo#deploy\",
    \"toolId\": \"d450f5c887e609100f71cbfc0ebb35e5\",
    \"orchestrationTaskURL\": \"https://dev.azure.com/xyzabcd/adoTests/_build?name=DeployableRepo#deploy\",
    \"stageName\": \"deploy\"
  },
  \"upstreamTaskUrl\": [],
  \"result\": \"building\",
  \"startDateTime\": \"2022-03-23 12:01:31\",
  \"log\": \"https://dev.azure.com/xyzabcd/adoTests/_build/results?buildId=5676&view=logs&j=5264e576-3c6f-51f6
  \"logUrl\": \"https://dev.azure.com/xyzabcd/adoTests/_build/results?buildId=5676&view=logs&j=5264e576-3c6f-5
}" \
--user 'username':'password'
```

Success

```
{
  "result": {
    "status": "Success",
    "sysId: "37dfd8a7879e85100f71cbfc0ebb35c0"
  }
}
```

Curl

```
curl "https://instance.service-now.com/api/sn_devops/devops/tool/plan?toolId=8d4f56598702c510f894419d0ebb35"
--request POST \
--header "Accept:application/json" \
--header "Content-Type:application/json" \
--data "{
    "id": "1053",
    "type": "bug",
    "state": "planned",
    "shortDescription": "Title - Work Item test in 1.33.3",
    "createdDateTime": "2022-03-23T10:45:53.02Z",
    "parentId": "",
    "url": "https://dev.azure.com/xyzabcd/9fe32a65-60a5-46fe-bc8d-11a92bf059f9/_workitems/edit/1053",
    "version": {
        "id": "adoTests",
        "shortDescription": "adoTests",
        "createdDateTime": "2022-03-23T10:46:12.355Z",
        "url": "https://dev.azure.com/xyzabcd/adoTests",
        "app": {
            "id": "adoTests",
            "shortDescription": "adoTests",
            "createdDateTime": "2022-03-23T10:46:12.355Z",
            "url": "https://dev.azure.com/xyzabcd/9fe32a65-60a5-46fe-bc8d-11a92bf059f9/_workitems/edit/1053"
        }
    },
    "app": {
        "id": "adoTests",
        "shortDescription": "adoTests",
        "createdDateTime": "2022-03-23T10:46:12.355Z",
        "url": "https://dev.azure.com/xyzabcd/adoTests"
    },
    "native_type": "Issue",
    "native_state": "To Do",
    "assignedTo": {
        "name": "Xyz Abcd",
        "userName": "xyz.abcd@email.com",
        "id": "84c92fc-e08b-6a5f-a8a6-ccda27055560",
        "email": "xyz.abcd@email.com"
    },
    "createdBy": {
        "name": "Xyz Abcd",
        "userName": "xyz.abcd@email.com",
        "id": "84c92fc-e08b-6a5f-a8a6-ccda27055560",
        "email": "xyz.abcd@email.com"
    }
}" \
--user 'username':'password'
```

Success

```
{
    "result": {
        "status": "Success",
        "sysId": "533020eb879e85100f71cbfc0ebb3591"
    }
}
```

Curl

```
curl "https://instance.service-now.com/api/sn_devops/devops/tool/test?toolId=8d4f56598702c510f894419d0ebb35"
--request POST \
--header "Accept:application/json" \
--header "Content-Type:application/json" \
--data "{
    "attemptNumber": 1,
    "blockedTests": 0,
    "buildNumber": 675,
    "duration": 0.079,
    "failedTests": 0,
    "finishTime": "2022-03-23T12:02:25.957Z",
    "name": "adoTests/DeployableRepo/Test #675-2982",
    "passedTests": 20,
    "pipelineName": "adoTests/DeployableRepo",
    "skippedTests": 0,
    "stageName": "Test",
    "startTime": "2022-03-23T12:02:24.36Z",
    "taskExecutionUrl": "https://dev.azure.com/xyzabcd/adoTests/_build/results?buildId=675#Test/{Job_name}",
    "totalTests": 20,
    "url": "https://dev.azure.com/xyzabcd/adoTests/_TestManagement/Runs?runId=2982&_a=runCharts"
}" \
--user 'username':'password'
```

Success

```
{
  "result": {
    "status": "Success",
    "sysId": "fd3fdc6b879e85100f71cbfc0ebb356a"
  }
}
```

POST /devops/tool/event/{sn_tool_id}

Posts the passed in payload from GitHub, Jira, or Bitbucket to the Events [sn_devops_event] table for processing by a pre-built subflow.

Before calling this endpoint, you must create an integration with the tool you're using.

- [GitHub integration with DevOps](#) (<https://docs.servicenow.com/csh?topicname=github-integration-dev-ops&version=zurich&pubname=zurich-it-service-management>)
- [Jira integration with DevOps](#) (<https://docs.servicenow.com/csh?topicname=jira-integration-dev-ops&version=zurich&pubname=zurich-it-service-management>)
- [Bitbucket integration with DevOps](#) (<https://docs.servicenow.com/csh?topicname=bitbucket-integration-dev-ops&version=zurich&pubname=zurich-it-service-management>)

To process events from any other tool besides GitHub, Jira, or Bitbucket, use the [DevOps - POST /devops/tool/{capability}](#) (dev.do#!/reference/api/zurich/rest/devops-api#devops-POST-tool) endpoint instead.

Note: Starting with 1.34.1 version, a new version of this API has been introduced. With this API, Adaptive Authentication policies may not execute as expected. For more information about these policies, see [Adaptive authentication](#) (<https://docs.servicenow.com/csh?topicname=adaptive-authentication&version=zurich&pubname=zurich-platform-security>).

Note: Available versions are specified in the [REST API Explorer](https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference) (<https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference>). For scripted REST APIs there is additional version information on the [Scripted REST Service form](https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference) (https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/tool/event/{sn_tool_id}
Versioned URL	/api/sn_devops/{api_version}/devops/tool/event/{sn_tool_id}

Path parameters

Name	Description
api_version	Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest. Data type: String
sn_tool_id	Sys_id of the tool to use for the request. Data type: String Table: Devops Tools [sn_devops_tool]

Query parameters

Name	Description
None	

Request body parameters

Name	Description
Tool dependent	The tool determines the content of the payload. The payload can be located in the tool under the webhook information.

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html).

Request headers

Header	Description
Accept	Data format of the response body. Only supports application/json.
Authorization	<p>Starting with v2, this API supports token-based authentication. Tokens can be acquired by clicking the Copy token button on the tool record, located in the Tool [sn_devops_tool] table. The token can then be used in an authorization header in the format <code>Authorization: sn_devops.DevOpsToken <tool_sys_id>: <tool_token></code>.</p> <p>Note: If Basic Auth details (user name and password) are provided in addition to an authorization header with token, Basic Auth takes precedence.</p>
Content-Type	Data format of the request body. Only supports application/json.

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
200	Successful. The request was successfully processed.
201	Request completed successfully.
400	Bad Request. A bad request type or malformed request was detected.
401	Invalid or missing authentication.
500	Internal Server Error. A logic error on the server-side code occurred.

Curl

[GitHub](#)

```

curl "https://instance.service-now.com/api/sn_devops/devops/tool/event/46a07b2f471e011028c23a34846d43b2" \
--request POST \
--header "Accept:application/json" \
--header "Content-Type:application/json" \
--data "{
    "ref": "refs/heads/master",
    "before": "59078a17cad1f4129754971c808d6c399b6141a5",
    "after": "b7957bab20835449c4d597fee24075a9a5a2c099",
    "repository": {
        "id": 252146476,
        "node_id": "MDEwOlJlcG9zaXRvcnkyNTIxNDY0NzY=",
        "name": "test",
        "full_name": "Xyz002/test",
        "private": false,
        "owner": {
            "name": "Xyz002",
            "email": "62993516+Xyz002@users.noreply.github.com",
            "login": "Xyz002",
            "id": 62993516,
            "node_id": "MDQ6VXNlcjYyOTkzNTE2",
            "avatar_url": "https://avatars.githubusercontent.com/u/62993516?v=4",
            "gravatar_id": "",
            "url": "https://api.github.com/users/Xyz002",
            "html_url": "https://github.com/Xyz002",
            "followers_url": "https://api.github.com/users/Xyz002/followers",
            "following_url": "https://api.github.com/users/Xyz002/following{/other_user}",
            "gists_url": "https://api.github.com/users/Xyz002/gists{/gist_id}",
            "starred_url": "https://api.github.com/users/Xyz002/starred{/owner}{/repo}",
            "subscriptions_url": "https://api.github.com/users/Xyz002/subscriptions",
            "organizations_url": "https://api.github.com/users/Xyz002/orgs",
            "repos_url": "https://api.github.com/users/Xyz002/repos",
            "events_url": "https://api.github.com/users/Xyz002/events{/privacy}",
            "received_events_url": "https://api.github.com/users/Xyz002/received_events",
            "type": "User",
            "site_admin": false
        },
        "html_url": "https://github.com/Xyz002/test",
        "description": null,
        "fork": false,
        "url": "https://github.com/Xyz002/test",
        "forks_url": "https://api.github.com/repos/Xyz002/test/forks",
        "keys_url": "https://api.github.com/repos/Xyz002/test/keys{/key_id}",
        "collaborators_url": "https://api.github.com/repos/Xyz002/test/collaborators{/collaborator}",
        "teams_url": "https://api.github.com/repos/Xyz002/test/teams",
        "hooks_url": "https://api.github.com/repos/Xyz002/test/hooks",
        "issue_events_url": "https://api.github.com/repos/Xyz002/test/issues/events{/number}",
        "events_url": "https://api.github.com/repos/Xyz002/test/events",
        "assignees_url": "https://api.github.com/repos/Xyz002/test/assignees{/user}",
        "branches_url": "https://api.github.com/repos/Xyz002/test/branches{/branch}",
        "tags_url": "https://api.github.com/repos/Xyz002/test/tags",
        "blobs_url": "https://api.github.com/repos/Xyz002/test/git/blobs{/sha}",
        "git_tags_url": "https://api.github.com/repos/Xyz002/test/git/tags{/sha}",
        "git_refs_url": "https://api.github.com/repos/Xyz002/test/git/refs{/sha}",
        "trees_url": "https://api.github.com/repos/Xyz002/test/git/trees{/sha}",
        "statuses_url": "https://api.github.com/repos/Xyz002/test/statuses{/sha}",
        "languages_url": "https://api.github.com/repos/Xyz002/test/languages",
        "stargazers_url": "https://api.github.com/repos/Xyz002/test/stargazers",
        "contributors_url": "https://api.github.com/repos/Xyz002/test/contributors",
        "subscribers_url": "https://api.github.com/repos/Xyz002/test/subscribers",
        "subscription_url": "https://api.github.com/repos/Xyz002/test/subscription",
        "commits_url": "https://api.github.com/repos/Xyz002/test/commits{/sha}",
        "git_commits_url": "https://api.github.com/repos/Xyz002/test/git/commits{/sha}",
        "comments_url": "https://api.github.com/repos/Xyz002/test/comments{/number}",
        "issue_comment_url": "https://api.github.com/repos/Xyz002/test/issues/comments{/number}",
        "contents_url": "https://api.github.com/repos/Xyz002/test/contents/{+path}",
        "compare_url": "https://api.github.com/repos/Xyz002/test/compare/{base}...{head}",
        "merges_url": "https://api.github.com/repos/Xyz002/test/merges",
        "archive_url": "https://api.github.com/repos/Xyz002/test/{archive_format}{/ref}",
        "downloads_url": "https://api.github.com/repos/Xyz002/test/downloads",
        "issues_url": "https://api.github.com/repos/Xyz002/test/issues{/number}",
        "pulls_url": "https://api.github.com/repos/Xyz002/test/pulls{/number}"
    }
}

```

```
"milestones_url": "https://api.github.com/repos/Xyz002/test/milestones{/number}",
"notifications_url": "https://api.github.com/repos/Xyz002/test/notifications{/since,all,participating}",
"labels_url": "https://api.github.com/repos/Xyz002/test/labels{/name}",
"releases_url": "https://api.github.com/repos/Xyz002/test/releases{/id}",
"deployments_url": "https://api.github.com/repos/Xyz002/test/deployments",
"created_at": 1585737871,
"updated_at": "2022-01-04T14:37:36Z",
"pushed_at": 1648103939,
"git_url": "git://github.com/Xyz002/test.git",
"ssh_url": "git@github.com:Xyz002/test.git",
"clone_url": "https://github.com/Xyz002/test.git",
"svn_url": "https://github.com/Xyz002/test",
"homepage": null,
"size": 1378,
"stargazers_count": 0,
"watchers_count": 0,
"language": "Java",
"has_issues": true,
"has_projects": true,
"has_downloads": true,
"has_wiki": true,
"has_pages": false,
"forks_count": 0,
"mirror_url": null,
"archived": false,
"disabled": false,
"open_issues_count": 2,
"license": null,
"allow_forking": true,
"is_template": false,
"topics": [],
"visibility": "public",
"forks": 0,
"open_issues": 2,
"watchers": 0,
"default_branch": "master",
"stargazers": 0,
"master_branch": "master"
},
"pusher": {
  "name": "Xyz002",
  "email": "62993516+Xyz002@users.noreply.github.com"
},
"sender": {
  "login": "Xyz002",
  "id": 62993516,
  "node_id": "MDQ6VXNlcjYyOTkzNTE2",
  "avatar_url": "https://avatars.githubusercontent.com/u/62993516?v=4",
  "gravatar_id": "",
  "url": "https://api.github.com/users/Xyz002",
  "html_url": "https://github.com/Xyz002",
  "followers_url": "https://api.github.com/users/Xyz002/followers",
  "following_url": "https://api.github.com/users/Xyz002/following{/other_user}",
  "gists_url": "https://api.github.com/users/Xyz002/gists{/gist_id}",
  "starred_url": "https://api.github.com/users/Xyz002/starred{/owner}{/repo}",
  "subscriptions_url": "https://api.github.com/users/Xyz002/subscriptions",
  "organizations_url": "https://api.github.com/users/Xyz002/orgs",
  "repos_url": "https://api.github.com/users/Xyz002/repos",
  "events_url": "https://api.github.com/users/Xyz002/events{/privacy}",
  "received_events_url": "https://api.github.com/users/Xyz002/received_events",
  "type": "User",
  "site_admin": false
},
"created": false,
"deleted": false,
"forced": false,
"base_ref": null,
"compare": "https://github.com/Xyz002/test/compare/59078a17cad1...b7957bab2083",
"commits": [
  {
    "id": "b7957bab20835449c4d597fee24075a9a5a2c099",
    "tree_id": "fa8d699762ec0a25868fa1ab4d299da392f0a974",
    "author": {
      "login": "Xyz002",
      "id": 62993516,
      "node_id": "MDQ6VXNlcjYyOTkzNTE2",
      "avatar_url": "https://avatars.githubusercontent.com/u/62993516?v=4",
      "gravatar_id": "",
      "url": "https://api.github.com/users/Xyz002",
      "html_url": "https://github.com/Xyz002",
      "followers_url": "https://api.github.com/users/Xyz002/followers",
      "following_url": "https://api.github.com/users/Xyz002/following{/other_user}",
      "gists_url": "https://api.github.com/users/Xyz002/gists{/gist_id}",
      "starred_url": "https://api.github.com/users/Xyz002/starred{/owner}{/repo}",
      "subscriptions_url": "https://api.github.com/users/Xyz002/subscriptions",
      "organizations_url": "https://api.github.com/users/Xyz002/orgs",
      "repos_url": "https://api.github.com/users/Xyz002/repos",
      "events_url": "https://api.github.com/users/Xyz002/events{/privacy}",
      "received_events_url": "https://api.github.com/users/Xyz002/received_events",
      "type": "User",
      "site_admin": false
    },
    "commit": {
      "id": "b7957bab20835449c4d597fee24075a9a5a2c099",
      "tree_id": "fa8d699762ec0a25868fa1ab4d299da392f0a974",
      "author": {
        "login": "Xyz002",
        "id": 62993516,
        "node_id": "MDQ6VXNlcjYyOTkzNTE2",
        "avatar_url": "https://avatars.githubusercontent.com/u/62993516?v=4",
        "gravatar_id": "",
        "url": "https://api.github.com/users/Xyz002",
        "html_url": "https://github.com/Xyz002",
        "followers_url": "https://api.github.com/users/Xyz002/followers",
        "following_url": "https://api.github.com/users/Xyz002/following{/other_user}",
        "gists_url": "https://api.github.com/users/Xyz002/gists{/gist_id}",
        "starred_url": "https://api.github.com/users/Xyz002/starred{/owner}{/repo}",
        "subscriptions_url": "https://api.github.com/users/Xyz002/subscriptions",
        "organizations_url": "https://api.github.com/users/Xyz002/orgs",
        "repos_url": "https://api.github.com/users/Xyz002/repos",
        "events_url": "https://api.github.com/users/Xyz002/events{/privacy}",
        "received_events_url": "https://api.github.com/users/Xyz002/received_events",
        "type": "User",
        "site_admin": false
      },
      "committer": {
        "login": "Xyz002",
        "id": 62993516,
        "node_id": "MDQ6VXNlcjYyOTkzNTE2",
        "avatar_url": "https://avatars.githubusercontent.com/u/62993516?v=4",
        "gravatar_id": "",
        "url": "https://api.github.com/users/Xyz002",
        "html_url": "https://github.com/Xyz002",
        "followers_url": "https://api.github.com/users/Xyz002/followers",
        "following_url": "https://api.github.com/users/Xyz002/following{/other_user}",
        "gists_url": "https://api.github.com/users/Xyz002/gists{/gist_id}",
        "starred_url": "https://api.github.com/users/Xyz002/starred{/owner}{/repo}",
        "subscriptions_url": "https://api.github.com/users/Xyz002/subscriptions",
        "organizations_url": "https://api.github.com/users/Xyz002/orgs",
        "repos_url": "https://api.github.com/users/Xyz002/repos",
        "events_url": "https://api.github.com/users/Xyz002/events{/privacy}",
        "received_events_url": "https://api.github.com/users/Xyz002/received_events",
        "type": "User",
        "site_admin": false
      },
      "message": "Initial commit",
      "timestamp": 1648103939,
      "sha": "b7957bab20835449c4d597fee24075a9a5a2c099",
      "files": [
        {
          "path": "src/main/java/com/example/Test.java",
          "status": "added"
        }
      ],
      "parents": []
    }
  }
]
```

```

    "distinct": true,
    "message": "updated this file",
    "timestamp": "2022-03-24T12:08:59+05:30",
    "url": "https://github.com/Xyz002/test/commit/b7957bab20835449c4d597fee24075a9a5a2c099",
    "author": {
        "name": "Xyz002",
        "email": "62993516+Xyz002@users.noreply.github.com",
        "username": "Xyz002"
    },
    "committer": {
        "name": "GitHub",
        "email": "noreply@github.com",
        "username": "web-flow"
    },
    "added": [],
    "removed": [],
    "modified": [
        "README.me"
    ]
},
],
"head_commit": {
    "id": "b7957bab20835449c4d597fee24075a9a5a2c099",
    "tree_id": "fa8d699762ec0a25868fa1ab4d299da392f0a974",
    "distinct": true,
    "message": "updated this file",
    "timestamp": "2022-03-24T12:08:59+05:30",
    "url": "https://github.com/Xyz002/test/commit/b7957bab20835449c4d597fee24075a9a5a2c099",
    "author": {
        "name": "Xyz002",
        "email": "62993516+Xyz002@users.noreply.github.com",
        "username": "Xyz002"
    },
    "committer": {
        "name": "GitHub",
        "email": "noreply@github.com",
        "username": "web-flow"
    },
    "added": [],
    "removed": [],
    "modified": [
        "README.me"
    ]
},
"sn_tool_id": "46a07b2f471e011028c23a34846d43b2"
}" \
--user 'username':'password'

```

Success

```
{
    "result": "success"
}
```

Curl

Jira

```

curl "https://instance.service-now.com/api/sn_devops/devops/tool/event/9ed237af471e011028c23a34846d4327" \
--request POST \
--header "Accept:application/json" \
--header "Content-Type:application/json" \
--data "{
    "timestamp": 1648104684180,
    "webhookEvent": "jira:issue_created",
    "issue_event_type_name": "issue_created",
    "user": {
        "self": "http://jira1.sndevops.xyz/rest/api/2/user?username=admin",
        "name": "admin",
        "key": "admin",
        "emailAddress": "username@email.com",
        "avatarUrls": {
            "48x48": "https://www.gravatar.com/avatar/ecccd6ec2c978f1f1d4a1fed4e81265eb?d=mm&s=48",
            "24x24": "https://www.gravatar.com/avatar/ecccd6ec2c978f1f1d4a1fed4e81265eb?d=mm&s=24",
            "16x16": "https://www.gravatar.com/avatar/ecccd6ec2c978f1f1d4a1fed4e81265eb?d=mm&s=16",
            "32x32": "https://www.gravatar.com/avatar/ecccd6ec2c978f1f1d4a1fed4e81265eb?d=mm&s=32"
        },
        "displayName": "Administrator",
        "active": true,
        "timeZone": "America/Los_Angeles"
    },
    "issue": {
        "id": "84800",
        "self": "http://jira1.sndevops.xyz/rest/api/2/issue/84800",
        "key": "BAL-2",
        "fields": {
            "issuetype": {
                "self": "http://jira1.sndevops.xyz/rest/api/2/issuetype/10002",
                "id": "10002",
                "description": "A task that needs to be done.",
                "iconUrl": "http://jira1.sndevops.xyz/secure/viewavatar?size=xsmall&avatarId=10318&avatarType=i",
                "name": "Task",
                "subtask": false,
                "avatarId": 10318
            },
            "timespent": null,
            "project": {
                "self": "http://jira1.sndevops.xyz/rest/api/2/project/10507",
                "id": "10507",
                "key": "BAL",
                "name": "balu_devops",
                "projectTypeKey": "software",
                "avatarUrls": {
                    "48x48": "http://jira1.sndevops.xyz/secure/projectavatar?avatarId=10324",
                    "24x24": "http://jira1.sndevops.xyz/secure/projectavatar?size=small&avatarId=10324",
                    "16x16": "http://jira1.sndevops.xyz/secure/projectavatar?size=xsmall&avatarId=10324",
                    "32x32": "http://jira1.sndevops.xyz/secure/projectavatar?size=medium&avatarId=10324"
                }
            },
            "fixVersions": [],
            "aggregatetimespent": null,
            "resolution": null,
            "customfield_10302": null,
            "customfield_10105": null,
            "resolutiondate": null,
            "workratio": 0,
            "lastViewed": null,
            "watches": {
                "self": "http://jira1.sndevops.xyz/rest/api/2/issue/BAL-2/watchers",
                "watchCount": 0,
                "isWatching": false
            },
            "created": "2022-03-24T06:51:22.896+0000",
            "priority": {
                "self": "http://jira1.sndevops.xyz/rest/api/2/priority/3",
                "iconUrl": "http://jira1.sndevops.xyz/images/icons/priorities/medium.svg",
                "name": "Medium",
                "id": "3"
            },
            "labels": []
        }
    }
}"

```

```

"customfield_10100": "0|i0cpnw:",
"customfield_10101": "SCRUMBOARD-14",
"customfield_10300": null,
"labels": [],
"timeestimate": 240,
"aggregatetimeoriginalestimate": 300,
"versions": [],
"issuelinks": [
  {
    "id": "10701",
    "self": "http://jira1.sndevops.xyz/rest/api/2/issueLink/10701",
    "type": {
      "id": "10000",
      "name": "Blocks",
      "inward": "is blocked by",
      "outward": "blocks",
      "self": "http://jira1.sndevops.xyz/rest/api/2/issueLinkType/10000"
    },
    "outwardIssue": {
      "id": "84741",
      "key": "BAL-1",
      "self": "http://jira1.sndevops.xyz/rest/api/2/issue/84741",
      "fields": {
        "summary": "log4jtesting",
        "status": {
          "self": "http://jira1.sndevops.xyz/rest/api/2/status/3",
          "description": "This issue is being actively worked on at the moment by the assignee",
          "iconUrl": "http://jira1.sndevops.xyz/images/icons/statuses/inprogress.png",
          "name": "In Progress",
          "id": "3",
          "statusCategory": {
            "self": "http://jira1.sndevops.xyz/rest/api/2/statuscategory/4",
            "id": 4,
            "key": "indeterminate",
            "colorName": "yellow",
            "name": "In Progress"
          }
        },
        "priority": {
          "self": "http://jira1.sndevops.xyz/rest/api/2/priority/3",
          "iconUrl": "http://jira1.sndevops.xyz/images/icons/priorities/medium.svg",
          "name": "Medium",
          "id": "3"
        },
        "issuetype": {
          "self": "http://jira1.sndevops.xyz/rest/api/2/issuetype/10004",
          "id": "10004",
          "description": "A problem which impairs or prevents the functions of the product.",
          "iconUrl": "http://jira1.sndevops.xyz/secure/viewavatar?size=xsmall&avatarId=10303&name=Bug",
          "name": "Bug",
          "subtask": false,
          "avatarId": 10303
        }
      }
    }
  }
],
"assignee": {
  "self": "http://jira1.sndevops.xyz/rest/api/2/user?username=admin",
  "name": "admin",
  "key": "admin",
  "emailAddress": "username@email.com",
  "avatarUrls": {
    "48x48": "https://www.gravatar.com/avatar/ecccd6ec2c978f1f1d4a1fed4e81265eb?d=mm&s=48",
    "24x24": "https://www.gravatar.com/avatar/ecccd6ec2c978f1f1d4a1fed4e81265eb?d=mm&s=24",
    "16x16": "https://www.gravatar.com/avatar/ecccd6ec2c978f1f1d4a1fed4e81265eb?d=mm&s=16",
    "32x32": "https://www.gravatar.com/avatar/ecccd6ec2c978f1f1d4a1fed4e81265eb?d=mm&s=32"
  },
  "displayName": "Administrator",
  "active": true,
  "timeZone": "America/Los_Angeles"
}
,
```

```

"updated": "2022-03-24T06:51:22.896+0000",
"status": {
    "self": "http://jira1.sndevops.xyz/rest/api/2/status/10000",
    "description": "",
    "iconUrl": "http://jira1.sndevops.xyz/",
    "name": "To Do",
    "id": "10000",
    "statusCategory": {
        "self": "http://jira1.sndevops.xyz/rest/api/2/statuscategory/2",
        "id": 2,
        "key": "new",
        "colorName": "blue-gray",
        "name": "To Do"
    }
},
"components": [],
"timeoriginalestimate": 300,
"description": "Task description",
"timetracking": {
    "originalEstimate": "5m",
    "remainingEstimate": "4m",
    "originalEstimateSeconds": 300,
    "remainingEstimateSeconds": 240
},
"customfield_10203": null,
"customfield_10204": null,
"customfield_10205": null,
"attachment": [],
"aggregatetimeestimate": 240,
"summary": "Task Summary",
"creator": {
    "self": "http://jira1.sndevops.xyz/rest/api/2/user?username=admin",
    "name": "admin",
    "key": "admin",
    "emailAddress": "username@email.com",
    "avatarUrls": {
        "48x48": "https://www.gravatar.com/avatar/ecccd6ec2c978f1f1d4a1fed4e81265eb?d=mm&s=48",
        "24x24": "https://www.gravatar.com/avatar/ecccd6ec2c978f1f1d4a1fed4e81265eb?d=mm&s=24",
        "16x16": "https://www.gravatar.com/avatar/ecccd6ec2c978f1f1d4a1fed4e81265eb?d=mm&s=16",
        "32x32": "https://www.gravatar.com/avatar/ecccd6ec2c978f1f1d4a1fed4e81265eb?d=mm&s=32"
    },
    "displayName": "Administrator",
    "active": true,
    "timeZone": "America/Los_Angeles"
},
"subtasks": [],
"reporter": {
    "self": "http://jira1.sndevops.xyz/rest/api/2/user?username=admin",
    "name": "admin",
    "key": "admin",
    "emailAddress": "username@email.com",
    "avatarUrls": {
        "48x48": "https://www.gravatar.com/avatar/ecccd6ec2c978f1f1d4a1fed4e81265eb?d=mm&s=48",
        "24x24": "https://www.gravatar.com/avatar/ecccd6ec2c978f1f1d4a1fed4e81265eb?d=mm&s=24",
        "16x16": "https://www.gravatar.com/avatar/ecccd6ec2c978f1f1d4a1fed4e81265eb?d=mm&s=16",
        "32x32": "https://www.gravatar.com/avatar/ecccd6ec2c978f1f1d4a1fed4e81265eb?d=mm&s=32"
    },
    "displayName": "Administrator",
    "active": true,
    "timeZone": "America/Los_Angeles"
},
"customfield_10000": "{summaryBean=com.atlassian.jira.plugin.devstatus.rest.SummaryBean@2ccf8c6[su
"aggregateprogress": {
    "progress": 0,
    "total": 240,
    "percent": 0
},
"customfield_10200": null,
"customfield_10201": null,
"customfield_10202": null,
"environment": null,
"duedate": "2022-03-24",
"dueTime": null
}

```

```

    "progress": {
      "progress": 0,
      "total": 240,
      "percent": 0
    },
    "comment": {
      "comments": [],
      "maxResults": 0,
      "total": 0,
      "startAt": 0
    },
    "votes": {
      "self": "http://jira1.sndevops.xyz/rest/api/2/issue/BAL-2/votes",
      "votes": 0,
      "hasVoted": false
    },
    "worklog": {
      "startAt": 0,
      "maxResults": 20,
      "total": 0,
      "worklogs": []
    }
  }
},
"changelog": {
  "id": "14401",
  "items": [
    {
      "field": "Link",
      "fieldtype": "jira",
      "from": null,
      "fromString": null,
      "to": "BAL-1",
      "toString": "This issue blocks BAL-1"
    }
  ],
  "sn_tool_id": "9ed237af471e011028c23a34846d4327"
}" \
--user 'username':'password'

```

Success

```
{
  "result": "success"
}
```

Curl

Bitbucket

```

curl "https://instance.service-now.com/api/sn_devops/devops/tool/event/6975ecaf879e85100f71cbfc0ebb3575" \
--request POST \
--header "Accept:application/json" \
--header "Content-Type:application/json" \
--data "{
    "eventKey": "repo:refs_changed",
    "date": "2022-03-23T15:57:05+0000",
    "actor": {
        "name": "admin",
        "emailAddress": "username@email.com",
        "id": 1,
        "displayName": "Admin",
        "active": true,
        "slug": "admin",
        "type": "NORMAL",
        "links": {
            "self": [
                {
                    "href": "http://bitbucket2.sndevops.xyz/users/admin"
                }
            ]
        }
    },
    "repository": {
        "slug": "testautomationrepo1",
        "id": 12,
        "name": "TestAutomationRepo1",
        "scmId": "git",
        "state": "AVAILABLE",
        "statusMessage": "Available",
        "forkable": true,
        "origin": {
            "slug": "testautomationrepo1",
            "id": 1,
            "name": "TestAutomationRepo1",
            "scmId": "git",
            "state": "AVAILABLE",
            "statusMessage": "Available",
            "forkable": true,
            "project": {
                "key": "TES",
                "id": 1,
                "name": "TestAutomation",
                "public": false,
                "type": "NORMAL",
                "links": {
                    "self": [
                        {
                            "href": "http://bitbucket2.sndevops.xyz/projects/TES"
                        }
                    ]
                }
            },
            "public": false,
            "links": {
                "clone": [
                    {
                        "href": "ssh://git@bitbucket2.sndevops.xyz:7999/tes/testautomationrepo1.git",
                        "name": "ssh"
                    },
                    {
                        "href": "http://bitbucket2.sndevops.xyz/scm/tes/testautomationrepo1.git",
                        "name": "http"
                    }
                ],
                "self": [
                    {
                        "href": "http://bitbucket2.sndevops.xyz/projects/TES/repos/testautomationrepo1/browse"
                    }
                ]
            }
        }
    }
}"

```

```

},
"project": {
    "key": "~ADMIN",
    "id": 3,
    "name": "Admin",
    "type": "PERSONAL",
    "owner": {
        "name": "admin",
        "emailAddress": "username@email.com",
        "id": 1,
        "displayName": "Admin",
        "active": true,
        "slug": "admin",
        "type": "NORMAL",
        "links": {
            "self": [
                {
                    "href": "http://bitbucket2.sndevops.xyz/users/admin"
                }
            ]
        }
    },
    "links": {
        "self": [
            {
                "href": "http://bitbucket2.sndevops.xyz/users/admin"
            }
        ]
    }
},
"public": false,
"links": {
    "clone": [
        {
            "href": "http://bitbucket2.sndevops.xyz/scm/~admin/testautomationrepo1.git",
            "name": "http"
        },
        {
            "href": "ssh://git@bitbucket2.sndevops.xyz:7999/~admin/testautomationrepo1.git",
            "name": "ssh"
        }
    ],
    "self": [
        {
            "href": "http://bitbucket2.sndevops.xyz/users/admin/repos/testautomationrepo1/browse"
        }
    ]
},
"changes": [
    {
        "ref": {
            "id": "refs/heads/master",
            "displayId": "master",
            "type": "BRANCH"
        },
        "refId": "refs/heads/master",
        "fromHash": "b482b2e232f5fbdee73feed8ca1cfb774de6976e",
        "toHash": "d783254fe6f77bc7cc079358158aeeef52a457587",
        "type": "UPDATE"
    }
],
"sn_tool_id": "6975ecaf879e85100f71cbfc0ebb3575"
}" \
--user 'username':'password'

```

Success

```
{
  "result": "success"
}
```

PUT /devops/orchestration/changeControl/{changeControlId}

Updates the change control information for the specified orchestration task.

Note: Available versions are specified in the [REST API Explorer \(https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference\)](https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference). For scripted REST APIs there is additional version information on the [Scripted REST Service form \(https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference\)](https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/orchestration/changeControl/{changeControlId}
Versioned URL	/api/sn_devops/{api_version}/devops/orchestration/changeControl/{changeControlId}

Path parameters

Name	Description
api_version	Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest. Data type: String
changeControlId	Sys_id of the change control task. Located in the Callback [sn_devops_callback] table. Data type: String

Query parameters

Name	Description
toolId	Required. Sys_id of the DevOps tool associated with the change control task. Data type: String Table: Orchestration Tool [sn_devops_orchestration_tool]

Request body parameters

Name	Description
callbackURL	<p>Required. URL that the ServiceNow instance can call back once the associated change request approval process is complete. This callback should let the pipeline execution continue or not, based on the approval result.</p> <p>Data type: String</p>
orchestrationTaskDetails	<p>Required. Description of the orchestration task.</p> <p>Data type: Object</p> <pre>"orchestrationTaskDetails": { "message": "String", "triggerType": "String", "upstreamTaskExecutionURL": "String" }</pre>
orchestrationTaskDetails.message	<p>Free-form text message.</p> <p>Data type: String</p>
orchestrationTaskDetails.triggerType	<p>Required. The way the orchestration task was started.</p> <p>Valid values:</p> <ul style="list-style-type: none"> scm: Git/scm tool code commit triggered the job. upstream: Upstream job triggered this job. user: User manually started the job. <p>Data type: String</p>
orchestrationTaskDetails.upstreamTaskExecutionURL	<p>Required if triggerType is set to upstream. Upstream task execution URL.</p> <p>For example: https://jenkins.mycompany.com:8080/job/Mobile-Platform-test/40/</p> <p>Data type: String</p>
orchestrationTaskURL	<p>Required. URL of the orchestration task.</p> <p>For example: https://jenkins.mycompany.com:8080/orchestration_task/Mobile-Platform-deploy/</p> <p>Data type: String</p>
toolType	<p>Type of DevOps tool.</p> <p>Valid value: jenkins</p> <p>Data type: String</p>
taskExecutionURL	<p>Required. URL of the task to execute.</p> <p>Data type: String</p>

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html).

Request headers

Header	Description
Accept	Data format of the response body. Only supports application/json.
Authorization	<p>Starting with v2, this API supports token-based authentication. Tokens can be acquired by clicking the Copy token button on the tool record, located in the Tool [sn_devops_tool] table. The token can then be used in an authorization header in the format <code>Authorization: sn_devops.DevOpsToken <tool_sys_id>: <tool_token></code>.</p> <p>Note: If Basic Auth details (user name and password) are provided in addition to an authorization header with token, Basic Auth takes precedence.</p> <p>If the devops.system user is not available in your instance, use the Switch to this user after token based authentication is successful property. This property enables setting any user that has the sn_devops.integration role, which is needed to complete the token authentication. For information, see DevOps Change Velocity properties (https://docs.servicenow.com/csh?topicname=dev-ops-administration&version=zurich&pubname=zurich-it-service-management).</p>
Content-Type	Data format of the request body. Only supports application/json.

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
200	Request completed successfully.
400	Bad Request. A bad request type or malformed request was detected.
401	Invalid or missing authentication.
404	Not Found. The specified record couldn't be found.
500	Internal server error. An unexpected error occurred while processing the request. The response contains additional information about the error.

Curl

```
curl -X PUT "https://instance.service-now.com/api/sn_devops/v1/devops/orchestration/changeControl/f0ca45679
-H "accept: application/json"\n
-H "Content-Type: application/json"\n
-u "username":"password"\n
-d "{\n    \"orchestrationTaskURL\":\"https://jenkins.mycompany.com:8080/job/Mobile-Platform-deploy/\",\n    \"toolType\":\"jenkins\",\n    \"callbackURL\":\"https://jenkins.mycompany.com:8080/sn-devops/964aca59-0cae-4d9b-a36d-5929f426cf31\",\n    \"taskExecutionURL\":\"https://jenkins.mycompany.com:8080/job/Mobile-Platform-test/40/\",\n    \"orchestrationTaskName\":\"StageName\",\n    \"orchestrationTaskDetails\":{\n        \"message\":\"Started by upstream project \"Mobile-Platform-test\" build number 40\", \n        \"triggerType\":\"upstream\", \n        \"upstreamTaskExecutionURL\":\"https://jenkins.mycompany.com:8080/job/Mobile-Platform-test/40/\"}\n}"
```

```
{
    "result": {
        "change_control": true
    }
}
```

PUT /devops/orchestration/changeInfo/{changeInfo}

Updates fields in a specified change request.

Note: Available versions are specified in the [REST API Explorer](https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference) (<https://docs.servicenow.com/csh?topicname=use-REST-API-Explorer&version=zurich&pubname=zurich-api-reference>). For scripted REST APIs there is additional version information on the [Scripted REST Service form](https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference) (https://docs.servicenow.com/csh?topicname=c_CustomWebServices&version=zurich&pubname=zurich-api-reference).

URL Format

Name	Value
Default URL	/api/sn_devops/devops/orchestration/changeInfo/{changeInfo}
Versioned URL	/api/sn_devops/{api_version}/devops/orchestration/changeInfo/{changeInfo}

Path parameters

Name	Description
api_version	Optional. Version of the endpoint to access. For example, v1 or v2. Only specify this value to use an endpoint version other than the latest. Data type: String

Query parameters

Name	Description
changeRequestNumber	<p>Required. Change request number associated with the orchestration task to update.</p> <p>Data type: String</p> <p>Table: Change Request [change_request]</p>

Request body parameters

Name	Description
data	<p>Required. Name-value pairs for the field(s) to update in the associated change request.</p> <p>For example, to update the short description file, enter a name-value pair similar to the following:</p> <pre>{"\"short_description\": \"my short desc\" }"</pre> <p>For the state parameter, only the following transitions are supported:</p> <ul style="list-style-type: none"> • cancel: <ul style="list-style-type: none"> ◦ Change request state must be implemented to move the state to cancel. ◦ The reason parameter is a mandatory input to update the state to canceled. • closed: <ul style="list-style-type: none"> ◦ Change request state must be implement or post implement to move the state to close. ◦ close_code and close_notes are mandatory input for updating the state to closed. <p>Possible values:</p> <ul style="list-style-type: none"> ▪ 4: Cancel (Value set in the sn_devops.change_request.cancel_state property.) ▪ 3: Closed (Value set in the sn_devops.change_request.closed_state property.) <p>Data type: String</p>

Headers

The following request and response headers apply to this HTTP action only, or apply to this action in a distinct way. For a list of general headers used in the REST API, see [Supported REST API headers](#) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/concept/c_RESTAPI.html).

Request headers

Header	Description
Accept	Data format of the response body. Only supports application/json.
Authorization	<p>Starting with v2, this API supports token-based authentication. Tokens can be acquired by clicking the Copy token button on the tool record, located in the Tool [sn_devops_tool] table. The token can then be used in an authorization header in the format <code>Authorization: sn_devops.DevOpsToken <tool_sys_id>: <tool_token></code>.</p> <p>Note: If Basic Auth details (user name and password) are provided in addition to an authorization header with token, Basic Auth takes precedence.</p>
Content-Type	Data format of the request body. Only supports application/json.

Response headers

Header	Description
None	

Status codes

The following status codes apply to this HTTP action. For a list of possible status codes used in the REST API, see [REST response codes](https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html) (https://docs.servicenow.com/bundle/zurich-application-development/page/integrate/inbound-rest/reference/r_RESTAPIHTTPResponseCodes.html).

Status codes

Status code	Description
200	Successful. The request was successfully processed.
400	Bad Request. A bad request type or malformed request was detected.
404	Not found. The requested item wasn't found.

Curl

The following code shows how to update various fields in the CHG0030023 change request.

```
curl -X PUT"  
https://instance.servicenow.com/api/sn_devops/v1/devops/orchestration/changeInfo?changeRequestNumber=CHG003  
  
-H "accept: application/json"\n-u "username":"password"\n-D\n{\n    "short_description": "Test description",\n    "priority": "1",\n    "start_date": "2021-02-05 08:00:00",\n    "end_date": "2022-04-05 08:00:00",\n    "justification": "test justification",\n    "description": "test description",\n    "cab_required": true,\n    "comments": "This update for work notes is from jenkins file",\n    "work_notes": "test work notes",\n    "assignment_group": "a715cd759f2002002920bde8132e7018"\n}
```

```
{\n    "result": {\n        "updateStatus": "Done",\n        "status": "Success",\n        "message": "change request update successful"\n    }\n}
```