

Using Omnissa App Volumes API

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About This Programming Guide

The *Omnissa App Volumes*® *API Programming Guide* provides information about the Omnissa App Volumes REST APIs, and how to construct and use the APIs.

Intended Audience

This information is for administrators and programmers who want to configure and manage Omnissa App Volumes programmatically using the available REST APIs.

For information about Omnissa App Volumes documentation, see Omnissa Product Documentation.

Understanding the App Volumes API

To make HTTP requests to the server and to retrieve the required information from the server, Omnissa App Volumes uses REST APIs. You can use the App Volumes APIs to automate workflows within your code.

Overview of REST APIs

REST is an acronym for Representational State Transfer and describes an architectural style characteristic of applications that use the Hypertext Transfer Protocol (HTTP) to exchange serialized representations of objects between a client and a server.

App Volumes API Reference is available at: Omnissa Developer Portal.

Connecting to the App Volumes API

To connect to the App Volumes API and retrieve data from the API, you must have a client which uses the HTTP/ URL syntax.

You can use any client that meets this requirement, such as Curl or Postman.

To establish a connection, you must create an authenticated session. After a successful authentication, you receive a session cookie. Note down the session cookie information for future use.

Note: /app_volumes/version can be used even when App Volumes Manager is not configured. Hence to use this API, an authenticated session is not necessary.

See your client documentation for specific information about saving and referencing the session cookie.

You can perform the following operations using the App Volumes APIs:

- View System Activity
- Application Operations
 - List Details of an Application
 - List All Available Applications
 - List Assignments of an Application
 - Assign an Application to a Target
 - Remove Application Assignments
 - List All Available Assignments
- · Package Operations
 - List Details of a Package
 - List All Available Packages
 - List Assignments of a Package
 - List Programs of a Package
- Writable Volume Operations
 - List Writable Volumes and Datastore information
 - List Details of a Writable Volume
 - Expand a Writable Volume
 - Update a Writable Volume
 - Delete a Writable Volume

App Volumes API Responses

All HTTP responses from Omnissa App Volumes include a status code and, depending on the request, might include a body or a URL. Some responses might be empty.

HTTP Response Codes

The App Volumes API sends the following HTTP response codes when you send an API request.

HTTP Status Codes

Status Code	Status Description
200 OK	The request is valid. Some APIs send this code for both a successful response and if there are errors in completing the request. The accompanying message in the document body indicates success or failure.
400 Missing ID parameter	The request body is missing key parameters required to complete the request.
400 Bad session parameters	Usually indicates a missing or an invalid parameter.
400 Bad request	Missing required data.
500 Server error	A server error with details provided in the response body.
401	User session does not have permissions to run the API.
404 Resource not found	Unable to locate the desired volume or AppStack, for example.
403 Session expired. Create a session and make the request with the _session_id cookie.	Expired session. User must log in again.
403 You do not have permission to perform this action.	The User does not have permissions to access the resource.

Getting Started with the API

Before you can begin to use the App Volumes APIs, you must create an authenticated API session and secure a channel between the browser and the App Volumes server.

To create an authentication session for the user, you must first POST a request with a username and password. You can send further API requests only after you receive a successful response.

Create an Authorized API Session

You must create an authorized API session for a user before you can send other API requests.

Prerequisites

To create an authorized session for a user, you must know the user name and password of the user.

Procedure

1. Send the following POST request to the Omnissa App Volumes server with the username and password in the request body.

```
POST AV Manager URL/app volumes/sessions
```

You can provide the username in one of these formats: accountname, NETBIOS_DOMAIN_NAME\accountname, or UPN (accountname@DOMAIN).

For example:

```
{
  "username": "username",
  "password": "goodcomplexpassword"
}
```

2. Examine the response.

A successful request returns a session cookie in the response header and an HTTP status 200 with the following message:

```
{
  "success": "ok"
}
```

If there is an error, a 400 HTTP status code is returned with an error message. You might get an error if one of the following is true:

- · If the required parameters are missing.
- If the account for which you are trying to create an authentication does not have sufficient privileges.
- If the username or password is invalid. For example: When the username is not provided, the following is displayed:

```
{
    "error": "User name is required"
}
```

What to do next

Depending on the client you are using to connect to the App Volumes API, the session cookie might have to be saved and referenced for other API requests.

Delete an Authorized API Session

Delete an authorized session for a user.

Prerequisites

To delete the session for a user, you must know the username of the user.

Procedure

1. Send the following DELETE request to the Omnissa App Volumes server. The username is embedded in the cookie header.

```
DELETE AV_Manager_URL/app_volumes/sessions
```

2. Examine the response.

A successful request returns HTTP status 200 and a success message.

```
{
   "success": "Destroying session for \"USERNAME\""
}
```

General App Volumes APIs

This section lists the general Omnissa App Volumes APIs.

View System Activity

Retrieve the activity logs to view system activity.

The Activity Log contains information about user logins, computer power-ups, and volume attachments. System messages include messages and errors generated from internal events such as polling for domain controllers, Active Directory access, and so on.

You can also filter the logs by username. Look up the **Down-level Logon Name** of the user in the Active Directory services and find the username.

Procedure

1. Make a GET request to retrieve the activity logs.

```
GET AV_Manager_URL/app_volumes/activity_logs
```

2. Examine the response.

A successful response returns a list of records with HTTP status code 200.

```
"actlogs": {
  "logs": [
      "source id": 0,
     "source type": "User",
      "source name": "Administrator",
      "source url": "/directory#/Users/1",
      "target id": 0,
      "target_type": "Snapvol",
      "target name": "Administrator",
      "target description": "Administrator",
      "target url": "/directory#/Users/1",
      "action": "Assign",
      "log": "Success",
      "event time": "2022-01-01 12:00:00 -0700",
      "event time human": "January 1, 2022 12:00PM",
      "admin_user_upn": "DOMAIN\\Administrator",
      "admin user name": "Administrator",
      "admin user url": "/directory#/Users/2",
      "id": 1
```

```
}
```

View Version Details of App Volumes Manager

Use this API to view the version details of App Volumes Manager.

In addition to the version details, you can also view other information such as copyright, version number of App Volumes Manager in the internal format, configuration status of the App Volumes Manager, offset in time between the local time zone and UTC, uptime (duration for which the App Volumes Manager has been running), and the UUID of the database configured in App Volumes Manager.

You can use this API even when App Volumes Manager is not configured. An authenticated session is not required to run this API.

Procedure

1. Make the following GET request to the Omnissa App Volumes server:

```
GET AV Manager URL/app volumes/version
```

2. Examine the response.

A successful response returns HTTP status 200 and includes the version, copyright, internal (version of App Volumes Manager in the internal format), configured status, uptime, offset in time between the local time zone and UTC, and database UUID.

For example:

```
"version": {
    "version": "App Volumes 4, version 2203",
    "internal": "4.6.0",
    "copyright": "Copyright 2011-2022",
    "configured": true,
    "time_offset": 5,
    "uptime": "less than a minute",
    "database_uuid": "654723bc-09de-4d9b-806c-9cd1d231a0de"
}
```

List All Available App Links

To retrieve all available App Links in App Volumes Manager, use this API. A successful API response retrieves data such as App Link name, URI, entry point, app run command-line, all the application packages created for the application, and so on.

You can also choose to list the App Links of a specific page using the pagination parameters such as page [number] and page [size].

All parameters except the api version parameters are optional. The api version parameter is mandatory.

• page[number]

This parameter indicates the page number for which the App Links data must be listed.

Note: Only one page number can be provided as the parameter value at a time.

The default value is 1.

page[size]

This parameter indicates the number of App Link records listed on a page.

The default value is 10.

· api version

This parameter indicates the version of the REST API used in App Volumes.

The value of the parameter must be 4110.

include

This parameter fetches relationships of each App Link such as the application (app_product) and the packages (app_packages).

The values supported by this parameter are as follows: app product and app packages.

relationships

Lists the relationships (application and packages) per App Link.

filter[id], filter[name], filter[product guid], filter[launch guid]

The filter parameters allow retrieving specific App Links records based on App Link ID, App Link name, application GUID, and application launch ID.

Procedure

1. Make a GET request to obtain the App Links.

```
GET AV_Manager_URL/app_volumes/app_links?api_version=4110
```

Note: If no pagination parameters are specified in the GET request, the first ten App Link records are fetched.

2. Examine the response.

A successful response returns the available App Links data with HTTP status 200. If the include parameter is provided in the GET request, the response displays the included object.

In the following example, App Links are fetched for App Link id 1.

```
{
  "data": [
     {
        "id": 1,
        "type": "app_links",
```

```
"links": {
        "self": "http://localhost:3000/app volumes/app links/1"
      },
      "attributes": {
        "name": "string",
        "launch uri": "applink://deliver?app=e57afe60-704d-4fbf-8276-3cdc7
8689b96&launch=7e9e4004-742c-e493-1def-e2ba1332ee07",
        "entry point": "C:\\ProgramData\\Microsoft\\Windows\\Start Menu\\P
rograms \ Notepad++.lnk",
        "app run command": "\"%svagent%svservice\" app run e57afe60-704d-4
fbf-8276-3cdc78689b96 \"C:\\ProgramData\\Microsoft\\Windows\\Start Menu\\P
rograms \\ Notepad++.lnk \"",
        "description": "string",
        "created at": "2021-12-03 13:10:13 -0800",
        "updated at": "2021-12-03 13:10:13 -0800"
      },
      "relationships": {
        "app product": {
          "data": {
            "type": "app products",
            "id": 1
        "app packages": [
            "data": {
              "type": "app_packages",
              "id": 1
        ]
      }
    }
  1,
  "included": [
      "id": 1,
      "type": "app packages",
      "attributes": {
        "name": "Notepad++ 7.2.0",
        "quid": "b9421adb-d6cb-47f0-81ba-10718d3a8611",
        "app product id": 1,
        "state": "Package",
        "version": "7.2.0",
        "programs count": 1,
        "operating systems_count": 1,
        "description": "string"
    }
  ],
  "meta": {
    "total": 18,
    "filtered": 18,
    "page count": 6
  },
  "links": {
    "first": "http://localhost:3000/app volumes/app links?include=app prod
uct%2Capp packages&page%5Bnumber%5D=1&page%5Bsize%5D=3",
```

```
"next": "http://localhost:3000/app_volumes/app_links?include=app_produ
ct%2Capp_packages&page%5Bnumber%5D=2&page%5Bsize%5D=3",
    "last": "http://localhost:3000/app_volumes/app_links?include=app_produ
ct%2Capp_packages&page%5Bnumber%5D=2&page%5Bsize%5D=3"
    }
}
```

links

Displays the links to the first, next, and last pages of the App Link records.

- first displays the link to the first page of the App Link records
- next displays the link to the page next to the page number specified in the GET request (page [num]).
- last displays the link to the last page of the App Link records. If any incorrect pagination parameter is provided, an HTTP error code 400 is returned with the following error message:

Working with Application APIs

You can perform various operations on applications using the APIs.

You can get information about an application, assign or unassign an application from a target (entity), list all available applications, and so on.

Note: If the <code>User</code> belongs to a <code>Group</code> which is assigned the Applications Owners role, then the <code>User</code> can access applications (<code>app_product_id</code>) and other application related information such as assignments, App Links, packages, and, so on only for those applications that are either directly owned by the <code>User</code> or the <code>Group</code> where the <code>User</code> is a member. As a result, a successful API response returns records of only those applications (<code>app_product_id</code>) to which the <code>User</code> has access. Additionally, the <code>User</code> can perform operations such as assign entity, remove application, update packages and, so on only for such applications. For more information about the Applications Owners role and the privileges, see the <code>Managing Admin Roles</code> section in the <code>Omnissa App Volumes 4 Administration Guide</code> at <code>Omnissa Product Documentation</code>.

List Details of an Application

You can list several details about an application such as the name, GUID, status, number of entities assigned, number of application packages, metadata properties, and so on.

Prerequisites

To list the information for an application, you must be aware of the application ID. To obtain the application ID, use the GET /app_volumes/app_products API. For more information about this API, see List All Available Applications.

Procedure

1. Make a GET request with the application ID to obtain all the details of the application:

```
GET AV_Manager_URL/app_volumes/app_products/{id}
```

- 2. Examine the response.
 - A successful response returns the application details with an HTTP status 200.

```
"data": {
    "id": 0,
    "name": "Notepad++",
    "guid": "1b38f44f-cb39-46fa-bcac-d72af508ddee",
    "icon": null,
    "assignment_count": 1,
    "description": "This application is best suitable for text file
s.",
    "app_packages_count": 0,
    "app_packages": [
```

```
"id": 0,
        "name": "Notepad-7.0.1",
        "guid": "14848eb3-169b-4e8a-bcb7-556f1811c08c",
        "app product id": 3,
        "lifecycle stage id": 1,
        "state": "Package",
        "version": "7.0.1",
        "description": "This package is on its latest version
7.0.1",
        "note": "The Package is best suited for development and HR d
ept.",
        "display delivery": "Classic",
        "delivery": "classic",
        "capable of on demand": true,
        "status": "enabled",
        "programs count": 2,
        "icon": "/snapvols/9/Notepad++.7.0.1.png",
        "operating systems count": 0,
        "delete status": "deleting",
        "deleted at": "2021-12-04 13:10:13 -0800",
        "deleted at human": "Dec 04 2021",
        "created at": "2021-12-03 13:10:13 -0800",
        "created at human": "Dec 03 2021",
        "updated at": "2021-12-03 13:10:13 -0800",
        "updated at human": "Dec 03 2021",
        "added at": "string",
        "added at human": "string",
        "attachment count": 2,
        "type": "AppPackage",
        "format": "AV",
        "path": "appvolumes/packages",
        "filename": "Notepad++.vmdk",
        "enabled": true,
        "writable": false,
        "datastore name": "datastore1",
        "files count": 2,
        "total use count": 5,
        "provision uuid": "string",
        "provisioning": false,
        "provision completed at": "2021-08-17 10:32:32 +0530",
        "provision started at": "2021-08-17 10:30:26 +0530",
        "size mb": 73,
        "size human": "83.00 MB",
        "assignment count": 1,
        "volume guid": "{4f949610-35c1-4e52-9f71-89d899150007}",
        "snapvol version id": 0,
        "mount_prefix": "",
        "mounted at": "2021-08-17 11:00:32 +0530",
        "template_file_name": "[data.1] appvolumes/packages_template
s/template.vmdk",
        "template version": "2.10.0.709",
        "missing": false,
        "protected": true,
        "agent version": "4.5.0.922D",
        "capture version": "4.0",
        "free mb": 0,
        "total mb": 0,
```

```
"attachment limit": 2,
        "reachable": true,
        "provision duration": "string",
        "primordial os id": 2,
        "primordial os name": "Windows 10 (x64)"
   ],
    "owner guid": "5F02DE3B-BAB1-4FDB-8065-ABB8711013EF",
    "status": "active",
    "delete_status": "deleting",
    "sync status": null,
   "sync message": null,
    "synced at": "2021-12-03 13:10:13 -0800",
    "synced at human": "Dec 03 2021",
    "deleted at": "2021-12-04 13:10:13 -0800",
    "deleted at human": "Dec 04 2021",
    "created at": "2021-12-03 13:10:13 -0800",
    "created at human": "Dec 03 2021",
    "updated at": "2021-12-03 13:10:13 -0800",
    "updated at human": "Dec 03 2021",
    "metadata sync at": "2021-12-03 15:10:14 -0800",
    "metadata sync at human": "Dec 03 2021",
    "metadata_properties_updated_at": "2021-12-03 15:10:14 -0800",
    "metadata properties updated at human": "Dec 03 2021",
   "metadata version": null
}
```

 If Omnissa App Volumes is unable to locate the application, an HTTP error code 404 is returned with an error message.

For example:

List All Available Applications

You can use this API to get a list of all available applications and the information associated with each application such as the ID, name, GUID, icon, description, number of packages for that application, and so on, in your Omnissa App Volumes setup.

Procedure

1. Make a GET request to obtain the list of applications.

```
GET AV_Manager_URL/app_volumes/app_products
```

2. Examine the response.

A successful response returns an HTTP status 200 with list of available applications and associated information about the application.

```
"data": [
    {
     "id": 0,
      "name": "Notepad++",
      "quid": "1b38f44f-cb39-46fa-bcac-d72af508ddee",
      "icon": null,
      "assignment count": 1,
      "description": "This application is best suitable for text files.",
      "app packages count": 0,
      "app packages": [
        {
          "id": 0,
          "name": "Notepad-7.0.1",
          "quid": "14848eb3-169b-4e8a-bcb7-556f1811c08c",
          "app product id": 3,
          "lifecycle stage id": 1,
          "state": "Package",
          "version": "7.0.1",
          "description": "This package is on its latest version 7.0.1",
          "note": "The Package is best suited for development and HR dep
t.",
          "display delivery": "Classic",
          "delivery": "classic",
          "capable of on demand": true,
          "status": "enabled",
          "programs count": 2,
          "icon": "/snapvols/9/Notepad++.7.0.1.png",
          "operating systems count": 0,
          "delete status": "deleting",
          "deleted at": "2021-12-04 13:10:13 -0800",
          "deleted at human": "Dec 04 2021",
          "created at": "2021-12-03 13:10:13 -0800",
          "created at human": "Dec 03 2021",
          "updated at": "2021-12-03 13:10:13 -0800",
          "updated at human": "Dec 03 2021",
          "added at": "string",
          "added at human": "string",
          "attachment count": 2,
          "type": "AppPackage",
          "format": "AV",
          "path": "appvolumes/packages",
          "filename": "Notepad++.vmdk",
```

```
"enabled": true,
          "writable": false,
          "datastore name": "datastore1",
          "files count": 2,
          "total use count": 5,
          "provision uuid": "string",
          "provisioning": false,
          "provision completed at": "2021-08-17 10:32:32 +0530",
          "provision started at": "2021-08-17 10:30:26 +0530",
          "size mb": 73,
          "size human": "83.00 MB",
          "assignment count": 1,
          "volume guid": "{4f949610-35c1-4e52-9f71-89d899150007}",
          "snapvol version id": 0,
          "mount prefix": "",
          "mounted at": "2021-08-17 11:00:32 +0530",
          "template file name": "[data.1] appvolumes/packages templates/te
mplate.vmdk",
          "template version": "2.10.0.709",
          "missing": false,
          "protected": true,
          "agent version": "4.5.0.922D",
          "capture version": "4.0",
          "free mb": 0,
          "total mb": 0,
          "attachment limit": 2,
          "reachable": true,
          "provision duration": "string",
          "primordial os id": 2,
          "primordial_os_name": "Windows 10 (x64)"
      ],
      "owner quid": "5F02DE3B-BAB1-4FDB-8065-ABB8711013EF",
      "status": "active",
      "delete status": "deleting",
      "sync status": null,
      "sync message": null,
      "synced at": "2021-12-03 13:10:13 -0800",
      "synced at human": "Dec 03 2021",
      "deleted at": "2021-12-04 13:10:13 -0800",
      "deleted at human": "Dec 04 2021",
      "created at": "2021-12-03 13:10:13 -0800",
      "created at human": "Dec 03 2021",
      "updated at": "2021-12-03 13:10:13 -0800",
      "updated at human": "Dec 03 2021",
      "metadata sync at": "2021-12-03 15:10:14 -0800",
      "metadata sync at human": "Dec 03 2021",
      "metadata properties_updated_at": "2021-12-03 15:10:14 -0800",
      "metadata properties updated at human": "Dec 03 2021",
      "metadata version": null
  ]
}
```

List App Packages for an App Volumes Application

To retrieve the application packages for an Omnissa App Volumes application, use this API. An application can

have multiple packages. A successful API response retrieves package information such as package name, delivery mode, status, and so on.

include

This parameter fetches relationships of a package such as the marker properties, lifecycle stages, base application package if the retrieved package information is an updated package, application for which the package is created, and the source App Volumes Manager instance (if the package is present on a target App Volumes Manager instance).

This parameter accepts comma separated values of the relationships of the package. The supported values for relationships are as follows: app_markers, lifecycle_stage, base_app_package, app_product, and source_manager_instance.

This is an optional parameter.

Prerequisites

Application ID is provided as the input parameter. To obtain the application ID, use the GET AV_Manager_URL/app volumes/app products API. For more information, see List All Available Applications.

Procedure

1. Make a GET request to obtain the list of packages for a specific application.

```
GET AV_Manager_URL/app_volumes/app_products/{id}/app_packages
```

2. Examine the response.

A successful response returns the list of packages for the application with HTTP status 200.

```
"data": [
   "id": 0,
    "name": "Notepad-7.0.1",
    "quid": "14848eb3-169b-4e8a-bcb7-556f1811c08c",
    "app product id": 3,
    "lifecycle stage id": 1,
    "state": "Package",
    "version": "7.0.1",
    "description": "This package is on its latest version 7.0.1",
    "note": "The Package is best suited for development and HR dept.",
    "display delivery": "Classic",
    "delivery": "classic",
    "capable of on demand": true,
    "status": "enabled",
    "programs count": 2,
    "icon": "/snapvols/9/Notepad++.7.0.1.png",
    "operating systems count": 0,
    "delete status": "deleting",
    "deleted at": "2021-12-04 13:10:13 -0800",
    "deleted at human": "Dec 04 2021",
```

```
"created at": "2021-12-03 13:10:13 -0800",
        "created at human": "Dec 03 2021",
        "updated at": "2021-12-03 13:10:13 -0800",
        "updated at human": "Dec 03 2021",
        "added at": "2021-12-03 13:10:13 -0800",
        "added at human": "Dec 04 2021",
        "attachment count": 2,
        "type": "AppPackage",
        "format": "AV",
        "path": "appvolumes/packages",
        "filename": "Notepad++.vmdk",
       "enabled": true,
        "writable": false,
        "datastore name": "datastore1",
        "files count": 2,
        "total use count": 5,
        "provision uuid": "string",
        "provisioning": false,
        "provision completed at": "2021-08-17 10:32:32 +0530",
        "provision started at": "2021-08-17 10:30:26 +0530",
        "size mb": 73,
        "size human": "83.00 MB",
        "assignment count": 1,
        "volume guid": "{4f949610-35c1-4e52-9f71-89d899150007}",
        "snapvol version id": 0,
        "mount prefix": "",
        "mounted at": "2021-08-17 11:00:32 +0530",
        "template_file_name": "[data.1] appvolumes/packages_templates/temp
late.vmdk",
       "template version": "2.10.0.709",
        "missing": false,
       "protected": true,
       "agent version": "4.5.0.922D",
        "capture version": "4.0",
        "free mb": 0,
        "total mb": 0,
        "attachment limit": 2,
        "reachable": true,
        "provision duration": "2 minutes",
        "primordial os id": 2,
        "primordial_os_name": "Windows 10 (x64)"
  }
```

Make a GET request to obtain the list of packages for a specific application with the include parameter.

```
GET AV_Manager_URL/app_volumes/app_products/1/app_packages?include=app_mar kers,lifecycle_stage
```

In the following example, the <code>include</code> parameter is used with two values: <code>app_markers</code> and <code>lifecycle_stage</code>. As a result, the response displays marker and lifecycle stage information for that package.

```
{
   "data": [
```

```
"id": 1,
            "name": "vlc",
            "guid": "3325446b-098d-4495-9d62-64e0e8ad5c42",
            "app product id": 1,
            "lifecycle stage id": 1,
            "state": "Package",
            "version": "2.2.4",
            "description": null,
            "note": null,
            "display delivery": "Classic",
            "delivery": "classic",
            "capable of on demand": true,
            "status": "enabled",
            "programs count": 1,
            "icon": "/snapvols/1/VLC media player.png",
            "operating systems count": 1,
            "delete status": null,
            "deleted at": null,
            "deleted at human": null,
            "created at": "2023-05-26 11:36:48 +0530",
            "created at human": "May 26 2023",
            "updated at": "2023-05-26 12:03:02 +0530",
            "updated at human": "May 26 2023",
            "added at": "2023-05-26 11:36:48 +0530",
            "added at human": "May 26 2023",
            "attachment count": 1,
            "type": "AppPackage",
            "format": "AV",
            "path": "494-2/appvolumes/packages",
            "filename": "vlc.vmdk",
            "enabled": true,
            "writable": false,
            "datastore name": "AV-3",
            "files count": 1,
            "total use count": 3,
            "provision uuid": null,
            "provisioning": false,
            "provision completed at": "2023-05-26 11:56:07 +0530",
            "provision started at": "2023-05-26 11:38:17 +0530",
            "size mb": 193,
            "size human": "193.00 MB",
            "assignment count": 0,
            "volume guid": "{3c4d0693-ada0-4693-a732-aa830ce97241}",
            "snapvol version id": null,
            "mount prefix": null,
            "mounted at": "2023-05-30T06:10:46Z",
            "template file name": "[AV-3] 494-2/appvolumes/packages_templa
tes/template.vmdk",
            "template version": null,
            "missing": false,
            "protected": true,
            "agent version": "4.9.4.2R",
            "capture version": "4.0",
            "free mb": 20409,
            "total mb": 20477,
            "attachment limit": null,
            "reachable": true,
```

```
"provision duration": "18 minutes",
        "primordial os id": 2,
        "primordial os name": "Windows 10 (x64)",
        "app markers": [
            {
                "id": 1,
                "name": "CURRENT",
                "app product_id": 1,
                "app product name": "vlc",
                "app package id": 1,
                "user id": 1,
                "user name": "Administrator",
                "created at": "2023-05-26 11:36:28 +0530",
                "created at human": "May 26 2023",
                "updated at": "2023-05-26 12:03:02 +0530",
                "updated at human": "May 26 2023",
                "assignable": "Available"
        ],
        "lifecycle stage": {
            "id": \overline{1},
            "name": "New",
            "priority": 0,
            "created at": "2023-05-25T22:42:16+05:30",
            "created at human": "May 25 2023",
            "updated at": "2023-05-25T22:42:16+05:30",
            "updated at human": "May 25 2023"
    }
]
```

If App Volumes is unable to locate the application, an HTTP error code 404 is returned with an error message.

```
"errors": [
    "title": "Application \"0\" was not found",
    "meta": {
        "manager": {
            "title": "Application \"0\" was not found"
        }
    }
}
```

List App Links for an Application

To retrieve the App Links for an application, use this API. An application can have multiple App Links. A successful API response retrieves data such as App Link name, URI, entry point, app run command-line, all the application packages created for the application, and so on.

To understand about App Links, see the Launch an App Volumes Application with an App Link section in the

Omnissa App Volumes 4, version 2306, Administration Guide.

Prerequisites

Application ID is provided as the input parameter. To obtain the application ID, use the <code>GET AV_Manager_URL/app_volumes/app_products</code> API. For more information, see List All Available Applications.

Procedure

1. Make a GET request to obtain the list of App Links for a specific application.

```
GET AV_Manager_URL/app_volumes/app_products/{id}/app_links
```

2. Examine the response.

A successful response returns the list of App Links for the application with HTTP status 200.

For example:

```
"data": [
      "id": 1,
      "name": "Notepad++",
      "launch uri": "applink://deliver?app=e57afe60-704d-4fbf-8276-3cdc786
89b96&launch=7e9e4004-742c-e493-1def-e2ba1332ee07",
      "entry point": "C:\\ProgramData\\Microsoft\\Windows\\Start Menu\\Pro
grams \\Notepad++.lnk",
      "app run command": "\"%svagent%svservice\" app run e57afe60-704d-4fb
f-8276-3cdc78689b96 \"C:\\ProgramData\\Microsoft\\Windows\\Start Menu\\Pro
grams\\Notepad++.lnk\"",
      "description": "string",
      "app packages": [
          "id": 3,
          "name": "string"
      ]
    }
 ]
```

If Omnissa App Volumes is unable to locate the application, an HTTP error code 404 is returned with an error message.

```
{
  "errors": [
     {
        "title": "Application \"0\" was not found",
        "meta": {
            "manager": {
                "title": "Application \"0\" was not found"
        }
}
```

```
}
}
]
```

List Assignments of an Application

List all the assignments for an application. An application assignment is represented by an ID using the id parameter. The number of IDs indicate the number of assignments present for this application. For each application assignment, the API also contains the application package name, package id, marker id for the package which has CURRENT marker, entity type and related information to which the application is assigned, filters (computer prefix name), and so on.

entities

The parameter indicates the type of entity to which the application is assigned. Entity types are User, Computer, Group, and Organization Unit (OU). If an application has multiple assignments, then all the entities are listed.

filters

If you have assigned an application to a non-computer entity and want to limit the delivery of the application to computers by using a specific prefix of a computer name, then the filters parameter can be used. The value indicates the prefix of the computer name. This parameter is displayed only when an application is assigned to a non-computer entity type (User, Group, and Organizational Unit (OU)).

Prerequisites

Ensure that you are aware of the application ID. To obtain the application ID, use the <code>GET AV_Manager_URL/app_volumes/app_products</code> API. For more information, see List All Available Applications.

Procedure

1. Make a GET request to obtain the list of assignments for a specific application.

```
GET AV_Manager_URL/app_volumes/app_products/{id}/assignments
```

2. Examine the response.

A successful response returns the list of assignments for the application with HTTP status 200.

```
"data": [
    "id": 1,
    "description": "This application is best suitable for text files.",
    "app_product_id": 1,
    "app_product_name": "Notepad++",
```

```
"app package id": null,
      "app package name": null,
      "app marker id": 1,
      "app_marker_name": "CURRENT",
      "priority": 0,
      "mount prefix": "",
      "created at": "2021-12-03 13:10:13 -0800",
      "created at human": "Dec 03 2021",
      "updated_at": "2021-12-03 13:10:13 -0800",
      "updated at human": "Dec 03 2021",
      "entities": [
          "id": 1,
          "entity_type": "User",
          "name": "testuser-1",
          "account name": "testuser-1",
          "upn": "SNAPVOLUMES\\testuser-1",
          "distinguished name": "CN=testuser-1,OU=Domain Users,DC=Snapvolu
mes, DC=com"
        }
      ],
      "filters": [
        {
          "id": 3,
          "type": "ComputerPrefixFilter",
          "value": "COMP"
        }
      ]
```

If Omnissa App Volumes is unable to locate the application, an HTTP error code 404 is returned with an error message.

Assign an Application to a Target

Assign an application to an entity (target). Entity types are as follows: User, Group, Computer, or Organizational Unit (OU).

delivery

This parameter indicates the mode of delivery of an application package when assigned to an entity.

 default - the Do not deliver for these assignments at startup or login option is turned off in App Volumes Manager

When this option is turned off, application assignments are delivered to an entity based on the package delivery mode option (classic, on-demand) which is configured in App Volumes Manager.

For more information about this feature, see *Understanding Package Delivery Modes in App Volumes* in the *Omnissa App Volumes 4 Administration Guide* at Omnissa Product Documentation.

 on_trigger - indicates that an application package is not delivered at user login and computer startup and instead, command-line delivery options can be used to deliver applications in real time.

For more information about the command-line delivery options, see *Command-line Delivery of Applications in App Volumes* in the *Omnissa 4 App Volumes Administration Guide*.

delivery is an optional parameter and by default the value of this parameter is default.

For information about the entities and filters parameters, see List Assignments of an Application.

Prerequisites

You must be aware of the following:

- The ID of the application to which you want to assign an entity.
 - For more information about how to obtain the ID of an application, see List All Available Applications.
- · The Active Directory path of the entity.
- Depending on the type of assignment (Package or Marker), the ID of the package or marker respectively.

For more information about how to obtain the package ID or marker ID, see List Assignments of an Application.

Procedure

1. Make a POST request to the App Volumes server to assign an application.

```
POST AV Manager URL/app volumes/app assignments
```

```
}

],

"app_package_id": null,

"app_marker_id": 1,

"delivery": "default",

"filters": [

{
       "type": "ComputerPrefixFilter",
       "value": "COMP"

}

}

}
```

2. Examine the response.

A successful request returns an HTTP status code 200.

The restricted_app_product_ids attribute lists the application product IDs (app_product_id) to which the User has no access. For information about why a User might not have access to that application, see the note about Applications Owners role in Working with Application APIs.

In the following example, Notepad++ is assigned to a single entity.

```
"data": [
    "id": 0,
    "description": "This application is best suitable for text files.",
    "app product id": 0,
    "app product name": "Notepad++",
    "app package id": 0,
    "app_package_name": "Notepad-7.0.1",
    "app marker id": 0,
    "app_marker_name": "CURRENT",
    "priority": 0,
    "mount prefix": "",
    "delivery": "default",
    "created at": "2021-12-03 13:10:13 -0800",
    "created_at_human": "Dec 03 2021",
    "updated at": "2021-12-03 13:10:13 -0800",
    "updated at human": "Dec 03 2021",
    "filters": [
        "id": 3,
        "type": "ComputerPrefixFilter",
        "value": "COMP"
    ]
],
    "restricted app product ids": [
```

If you do not provide the required data in the request body, an HTTP status code 400 is returned.

In the following example, a package is not packaged, or the package is disabled:

In the following example, one of these parameters app package id or app marker id is not valid.

In the following example, the parameters that are provided lead to duplicate creation of an assignment:

In the following example, an administrator has entered an invalid delivery parameter:

```
{
"errors": [
{
```

Remove Application Assignments

Remove assignments of an application by using the application assignment ID. You can remove multiple assignments for different applications at the same time by mentioning the application assignment ID for each assignment.

Prerequisites

Ensure that you are aware of the application assignment ID of the assignment that you choose to remove from the application. To obtain this ID, use the <code>GET AV_Manager_URL/app_volumes/app_products/{id}/assignments</code> API. For more information about this API, see List Assignments of an Application.

Procedure

1. Make a DELETE request to the Omnissa App Volumes server to unassign an application from one or more entities.

```
DELETE AV_Manager_URL/app_volumes/app_assignments
```

In the following example, application assignment ID 1 is unassigned from the entity:

```
{
    "ids": [
        1
        ]
    }
```

2. Examine the response.

A successful request returns an HTTP status code 200, and a message indicating success or failure. If you do not provide the required data in the request body, an HTTP status code 400 is returned.

The following example shows that assignment ID 1 is successfully removed from an entity:

```
"id": "1"
}

l,

"not_deleted": []
}
```

The following example shows that the assignment ID 1 is not successfully removed:

Some of the scenarios when an unassign operation fails are as follows: the application corresponding to the assignment ID does not exist, the specified assignment ID has an attachment, or the user has no access to the corresponding application.

```
{
   "data": {
     "deleted": [],
     "not_deleted": [
        {
            "id": "1"
        }
      ]
}
```

List All Available Assignments

List all the available assignments in App Volumes Manager. All the records in the **Assignments** tab of the admin UI are listed. You can also choose to list the assignments of a specific page by using the pagination parameters such as page [number] and page[size].

If you choose to list page-specific assignments, the following pagination parameters must be used:

• page[number]

Indicates the page number for which the assignments must be listed. If you are unaware of this information, you can navigate to the App Volumes Manager admin UI and see the **Assignments** tab.

Note: Only one page number can be provided as the parameter value at a time.

The default value is 1.

• page[size]

Indicates the number of assignment records that must be listed on a page.

The default value is 1.

• api_version

Indicates the version of the REST API used in Omnissa App Volumes.

The value of this parameter must be 4040.

The following is an optional parameter:

include

Fetches relationships of the assignments such as entity details, computer prefix (for entity type computer), and application and packages including those set with the CURRENT marker.

The values supported by this parameter are as follows: app_assignment_entities, assignment_filters, app_marker, app_package, and app_product.

Procedure

1. Make a GET request to obtain the assignments.

```
GET AV_Manager_URL/app_volumes/app_assignments
```

Note: If no pagination parameters are specified in the GET request, all the available assignment records are fetched.

2. Examine the response.

A successful response returns the available assignments with HTTP status 200.

When assignments are fetched as per pagination parameters provided in the GET request, some of the response parameters are as follows:

relationships

Lists the relationships per application assignment ID for all assignments fetched in the GET request.

Note: The included parameter has the detailed description of the relationship values.

links

Displays the links to the first, next, and last pages of the **Assignments** tab in the App Volumes Manager admin UI.

next - links to the page available next to the page number specified in the GET request (page [num]).

In the following example, assignments are fetched for application assignment id 1. As the pagination parameters were specified in the GET request, this response also includes the relationship values and the links to the application assignment pages for the application assignment id:

```
"data": [
    "id": 1,
    "type": "app_assignments",
    "links": {
        "self": "http://localhost:3000/app_volumes/app_assignments/1"
    },
    "attributes": {
        "app_marker_id": 0,
        "app_product_id": 0,
        "app_package_id": 0,
        "created_at": "2021-12-03 13:10:13 -0800",
        "created_at_human": "Dec 03 2021",
```

```
"updated at": "2021-12-03 13:10:13 -0800",
      "updated_at_human": "Dec 03 2021",
      "delivery": "default"
    "relationships": {
      "app product": {
        "data": {
          "type": "app products",
          "id": 1
      } ,
      "app_marker": {
        "data": {
          "type": "app markers",
          "id": 1
      },
      "app_package": {
        "data": {
          "type": "app_packages",
          "id": 1
      "app assignment entities": {
        "data": [
            "type": "app_assignment_entities",
            "id": 1
      },
      "assignment filters": {
        "data": [
            "type": "assignment filters",
            "id": 1
      }
    }
 }
],
"included": [
          "id": "1",
          "type": "app assignment entities",
          "attributes": {
              "target type": "User",
              "target id": 1
          "relationships": {
              "target": {
                   "data": {
                      "type": "users",
                      "id": "1"
          }
```

```
"id": "1",
            "type": "users",
            "attributes": {
                "name": "test-user",
                "last login": null,
                "email": null,
                "upn": "SNAPVOLUMES\\test-user",
                "account name": "test-user",
                "uuid": null,
                "distinguished name": "CN=test-user,OU=Users,OU=SNAPVOLUME
S, DC=local",
                "created at": "2022-02-03T13:04:30Z",
                "updated at": "2022-02-10T12:03:43Z"
        },
            "id": "1",
            "type": "app markers",
            "attributes": {
                "name": "CURRENT",
                "app product id": 1,
                "app_package_id": null,
                "created at": "2022-02-03T13:04:10Z",
                "updated at": "2022-02-03T13:04:10Z"
            }
        },
            "id": "1",
            "type": "app_products",
            "attributes": {
                "name": "Notepad++",
                "quid": "60414c9d-a47c-4b6c-9f45-30434ced8398",
                "icon": null,
                "created at": "2022-02-03T13:04:10Z",
                "updated at": "2022-02-03T13:04:10Z",
                "delete status": null,
                "status": "active",
                "sync status": null,
                "synced at": null,
                "sync message": null
        },
            "id": 1,
            "type": "app packages",
            "attributes": {
            "name": "Notepad++ 7.2.0",
            "guid": "b9421adb-d6cb-47f0-81ba-10718d3a8611",
            "app product id": 1,
            "state": "Package",
            "version": "7.2.0",
            "programs count": 1,
            "operating systems count": 1,
            "description": "string"
```

```
"meta": {
    "total": 18,
    "filtered": 18,
    "page count": 6
  },
  "links": {
    "first": "http://localhost:3000/app volumes/app_assignments?include=ap
p assignment entities%2Cassignment filters%2Capp marker%2Capp package%2Cap
p marker.app package%2Capp product%2Capp assignment entities.target&page%5
Bnumber%5D=1&page%5Bsize%5D=3",
    "next": "http://localhost:3000/app volumes/app_assignments?include=ap
p assignment entities%2Cassignment filters%2Capp marker%2Capp package%2Cap
p marker.app package%2Capp product%2Capp assignment entities.target&page%5
Bnumber%5D=2&page%5Bsize%5D=3",
    "last": "http://localhost:3000/app volumes/app assignments?include=ap
p assignment entities%2Cassignment filters%2Capp marker%2Capp package%2Cap
p_marker.app_package%2Capp_product%2Capp assignment entities.target&page%5
Bnumber%5D=6&page%5Bsize%5D=3"
```

In the following example, the response is obtained when the GET request contains only the include parameter and no pagination parameters. All available assignments are listed. In this example, only two application assignments are available.

```
"data": [
    {
        "id": 1,
        "description": null,
        "app product id": 1,
        "app product name": "EmEditor",
        "app package id": null,
        "app package name": null,
        "app marker id": 1,
        "app_marker_name": "CURRENT",
        "priority": 0,
        "mount prefix": "",
        "delivery": "on trigger",
        "created at": "2022-02-04 14:40:50 +0530",
        "created at human": "Feb 04 2022",
        "updated at": "2022-02-04 14:40:50 +0530",
        "updated at human": "Feb 04 2022",
        "app marker": {
            "id": 1,
            "name": "CURRENT",
            "app product id": 1,
            "app product name": "EmEditor",
            "app_package_id": null,
"created at": "2022-02-03 18:34:10 +0530",
            "created at human": "Feb 03 2022",
            "updated at": "2022-02-03 18:34:10 +0530",
            "updated at human": "Feb 03 2022",
            "assignable": "Available",
            "app package": null
        },
```

```
"app package": null
        },
            "id": 2,
            "description": null,
            "app product id": 2,
            "app product name": "Microsoft Office",
            "app package id": 2,
            "app_package_name": "Office 2019",
            "app_marker_id": null,
            "app_marker_name": null,
            "priority": 0,
            "mount prefix": "",
            "delivery": "default",
            "created at": "2022-02-07 18:24:09 +0530",
            "created at human": "Feb 07 2022",
            "updated at": "2022-02-07 18:24:09 +0530",
            "updated at human": "Feb 07 2022",
            "app marker": null,
            "app package": {
                "id": 2,
                "name": "Office 2019",
                "quid": "357a1ef2-1568-4dac-95be-874b910c6a46",
                "app product id": 2,
                "lifecycle stage id": 4,
                "state": "Package",
                "version": "16.0.10358.20061",
                "description": null,
                "note": null,
                "display_delivery": "Classic",
                "delivery": "classic",
                "capable of on demand": true,
                "status": "enabled",
                "programs count": 4,
                "icon": "/snapvols/14/Office_16_Click-to-Run_Localizatio
n Component.png",
                "operating systems count": 1,
                "delete status": null,
                "deleted at": null,
                "deleted at human": null,
                "created at": "2022-02-03 18:34:47 +0530",
                "created at human": "Feb 03 2022",
                "updated at": "2022-02-03 18:34:48 +0530",
                "updated_at_human": "Feb 03 2022",
                "added at": "2022-02-03 18:34:47 +0530",
                "added at human": "Feb 03 2022",
                "attachment count": 0,
                "type": "AppPackage",
                "format": "AV",
                "path": "appvolumes/packages",
                "filename": "Office!20!2019.vmdk",
                "enabled": true,
                "writable": false,
                "datastore name": "datastore",
                "files count": 1,
                "total use count": 0,
                "provision uuid": null,
                "provisioning": false,
```

```
"provision completed at": "2021-08-25 10:38:24 +0530",
                "provision started at": "2021-08-25 10:31:05 +0530",
                "size mb": 2343,
                "size human": "2.29 GB",
                "assignment count": 0,
                "volume guid": "{a671f795-fb2c-497a-844f-b152d356ff9d}",
                "snapvol version id": null,
                "mount prefix": null,
                "mounted at": null,
                "template_file_name": "[datastore] appvolumes/packages_tem
plates/template.vmdk",
                "template version": null,
                "missing": false,
                "protected": true,
                "agent version": "4.5.0.932U",
                "capture version": "4.0",
                "free mb": 0,
                "total mb": 0,
                "attachment limit": null,
                "reachable": true,
                "provision_duration": "7 minutes",
                "primordial os id": 2,
                "primordial os name": "Windows 10 (x64)"
            }
       }
  ]
}
```

Working with Package APIs

You can perform various operations on packages using the APIs.

You can get information about a package, list all packages of an application, view all the assignments for a specific package of the application, and list the programs present within a package.

Note: If the <code>User</code> belongs to a <code>Group</code> which is assigned the Applications Owners role, then the <code>User</code> can access applications (<code>app_product_id</code>) and other application related information such as assignments, App Links, packages, and, so on only for those applications that are either directly owned by the <code>User</code> or the <code>Group</code> where the <code>User</code> is a member. As a result, a successful API response returns records of only those applications (<code>app_product_id</code>) to which the <code>User</code> has access. Additionally, the <code>User</code> can perform operations such as assign entity, remove application, update packages and, so on only for such applications.

For more information about the Applications Owners role and the privileges, see the *Managing Admin Roles* section in the *Omnissa App Volumes 4 Administration Guide* at Omnissa Product Documentation.

List Details of a Package

You can list several details about a package such as the name, ID, application ID to which the package belongs, current state, delivery mode (on-demand and classic), number of programs in the package, and so on.

Prerequisites

You must be aware of the package ID for which you want to list the information. To obtain the package ID, use the GET /app_volumes/app_packages API. This API lists several details about a package including the package ID. For more information, see List All Available Packages.

Procedure

1. Make a GET request with the package ID to obtain all the details of the package.

```
GET AV_Manager_URL/app_volumes/app_packages/{id}
```

- 2. Examine the response.
 - A successful response returns the package details with an HTTP status 200.

```
"data": {
    "id": 0,
    "name": "Notepad-7.0.1",
    "guid": "14848eb3-169b-4e8a-bcb7-556f1811c08c",
    "app_product_id": 3,
    "lifecycle_stage_id": 1,
    "state": "Package",
    "version": "7.0.1",
    "description": "This package is on its latest version 7.0.1",
```

```
"note": "The Package is best suited for development and HR dep
t.",
      "display delivery": "Classic",
      "delivery": "classic",
      "capable of on demand": true,
      "status": "enabled",
      "programs count": 2,
      "icon": "/snapvols/9/Notepad++.7.0.1.png",
      "operating systems_count": 0,
      "delete status": "deleting",
      "deleted at": "2021-12-04 13:10:13 -0800",
      "deleted at human": "Dec 04 2021",
      "created at": "2021-12-03 13:10:13 -0800",
      "created at human": "Dec 03 2021",
      "updated at": "2021-12-03 13:10:13 -0800",
      "updated at human": "Dec 03 2021",
      "added at": "2021-12-03 13:10:13 -0800",
      "added at human": "Dec 04 2021",
      "attachment count": 2,
      "type": "AppPackage",
      "format": "AV",
      "path": "appvolumes/packages",
      "filename": "Notepad++.vmdk",
      "enabled": true,
      "writable": false,
      "datastore name": "datastore1",
      "files count": 2,
      "total use count": 5,
      "provision uuid": "string",
      "provisioning": false,
      "provision_completed at": "2021-08-17 10:32:32 +0530",
      "provision started at": "2021-08-17 10:30:26 +0530",
      "size mb": 73,
      "size human": "83.00 MB",
      "assignment count": 1,
      "volume guid": "{4f949610-35c1-4e52-9f71-89d899150007}",
      "snapvol version id": 0,
      "mount_prefix": "",
      "mounted at": "2021-08-17 11:00:32 +0530",
      "template file name": "[data.1] appvolumes/packages templates/
template.vmdk",
      "template version": "2.10.0.709",
      "missing": false,
      "protected": true,
      "agent version": "4.5.0.922D",
      "capture version": "4.0",
      "free mb": 0,
      "total mb": 0,
      "attachment limit": 2,
      "reachable": true,
      "provision duration": "2 minutes",
      "primordial os id": 2,
      "primordial os name": "Windows 10 (x64)",
      "feedback count": 25,
      "feedback config": {
        "enabled": true,
        "prompt after minutes": 2
      },
```

```
"app package feedback": {
      "total": 25,
      "positives": 15,
      "comments": 10,
      "positives percentage": "60",
      "negative percentage": "40"
   },
    "concurrent usage": 68,
    "target concurrent usage": 257,
    "total_concurrent_usage": 325,
    "peak usage": 2056,
   "target peak usage": 409,
   "total peak usage": 2465,
    "usage refreshed at": "2025-04-16 21:41:25 +0530",
    "active peak usage": {
      "usage count": 4056,
      "reset at": "2025-04-14 13:26:09 UTC"
 }
}
```

 If Omnissa App Volumes is unable to locate the package, an HTTP error code 404 is returned with an error message.

For example:

Update a Package

You can update properties of a package when you want to associate a package with another application, change the lifecycle stage of the package, specify the package delivery type, and add notes and description.

· app product id

If you want to move a package to another application, you can use this parameter to specify the application to which you want to associate the package.

You can also use the <code>app_product_guid</code> parameter to specify the application for package move.

Note: When both parameters are mentioned, app product id takes precedence.

To obtain the app_product_id or app_product_guid, see List All Available Applications.

· lifecycle stage name

If you want to specify the lifecycle stage of a package, you can use this parameter.

The lifecycle stages of a package are as follows: New, Tested, Published, and Retired.

You can also use the <code>lifecycle_stage_id</code> parameter to specify the lifecycle stage of a package. This parameter value can be obtained from the *Get Lifecycle stages* API. Each ID is associated with one of the lifecycle stages.

Note: When both parameters are mentioned, lifecycle stage name takes precedence.

For information about the <code>lifecycle_stage_id</code> or <code>lifecycle_stage_name</code>, see List All Lifecycle Stages.

For more information about the package stages, see *Lifecycle of a Package* in the *Omnissa App Volumes 4 Administration Guide* at Omnissa Product Documentation.

delivery

Determines the delivery mechanism of an application package to the end user. The supported values for this parameter are classic and on-demand.

For information about the package delivery modes, see *Understanding Package Delivery Modes in App Volumes* in the *Omnissa App Volumes 4 Administration Guide* at Omnissa Product Documentation.

Prerequisites

To obtain the package ID whose properties you choose to update, see List All Available Packages.

Procedure

1. Make a PUT request to update the properties of a package.

```
PUT AV_Manager_URL/app_volumes/app_packages/{id}
```

```
"data": {
    "app_product_id": 1,
    "lifecycle_stage_id": 1,
    "lifecycle_stage_name": "Tested",
    "app_product_guid": "654723bc-09de-4d9b-806c-9cd1d231a0ab",
    "note": "The Package is best suited for development and HR dept.",
    "name": "Notepad-7.0.1",
    "description": "This package is on its latest version 7.0.1.",
    "delivery": "classic",
    "feedback_config": {
        "enabled": true,
        "prompt_after_minutes": 2
    }
}
```

Examine the response.

A successful response returns the package details with an HTTP status 200

```
{
    "data": {
      "id": 0,
      "name": "Notepad-7.0.1",
      "guid": "14848eb3-169b-4e8a-bcb7-556f1811c08c",
      "app product_id": 3,
      "lifecycle stage id": 1,
      "state": "Package",
      "version": "7.0.1",
      "description": "This package is on its latest version 7.0.1",
      "note": "The Package is best suited for development and HR dep
t.",
      "display delivery": "Classic",
      "delivery": "classic",
      "capable of on demand": true,
      "status": "enabled",
      "programs count": 2,
      "icon": "/snapvols/9/Notepad++.7.0.1.png",
      "operating_systems_count": 0,
      "delete status": "deleting",
      "deleted at": "2021-12-04 13:10:13 -0800",
      "deleted at human": "Dec 04 2021",
      "created at": "2021-12-03 13:10:13 -0800",
      "created at human": "Dec 03 2021",
      "updated at": "2021-12-03 13:10:13 -0800",
      "updated at human": "Dec 03 2021",
      "added at": "2021-12-03 13:10:13 -0800",
      "added_at_human": "Dec 04 2021",
      "attachment count": 2,
      "type": "AppPackage",
      "format": "AV",
      "path": "appvolumes/packages",
      "filename": "Notepad++.vmdk",
      "enabled": true,
      "writable": false,
      "datastore_name": "datastore1",
      "files count": 2,
      "total use count": 5,
      "provision uuid": "string",
      "provisioning": false,
      "provision completed at": "2021-08-17 10:32:32 +0530",
      "provision started at": "2021-08-17 10:30:26 +0530",
      "size mb": 73,
      "size human": "83.00 MB",
      "assignment count": 1,
      "volume guid": "{4f949610-35c1-4e52-9f71-89d899150007}",
      "snapvol version_id": 0,
      "mount prefix": "",
      "mounted at": "2021-08-17 11:00:32 +0530",
      "template file name": "[data.1] appvolumes/packages templates/
template.vmdk",
      "template version": "2.10.0.709",
      "missing": false,
      "protected": true,
      "agent version": "4.5.0.922D",
      "capture version": "4.0",
```

```
"free mb": 0,
    "total mb": 0,
    "attachment_limit": 2,
    "reachable": true,
    "provision duration": "2 minutes",
    "primordial os id": 2,
    "primordial os name": "Windows 10 (x64)",
    "feedback count": 25,
    "feedback config": {
      "enabled": true,
      "prompt after minutes": 2
    },
    "app package feedback": {
      "total": 25,
      "positives": 15,
      "comments": 10,
      "positives percentage": "60",
      "negative percentage": "40"
    "concurrent usage": 68,
    "target concurrent usage": 257,
    "total concurrent usage": 325,
    "peak usage": 2056,
    "target peak usage": 409,
    "total peak usage": 2465,
    "usage refreshed at": "2025-04-16 21:41:25 +0530",
    "active peak usage": {
      "usage count": 4056,
      "reset at": "2025-04-14 13:26:09 UTC"
  }
}
```

 If you do not provide the required data in the request body, an HTTP status code 400 is returned.

```
"param is missing or the value is empty: data"
```

 If Omnissa App Volumes is unable to locate the package, an HTTP error code 404 is returned with an error message:

List All Available Packages

You can get a list of all available packages and the information associated with each package such as the ID, name, GUID, application ID to which the package belongs, current state of the package, delivery mode (classic or on-demand), status of the package, number of programs in a package, number of package assignments, and so on.

Procedure

1. Make a GET request to obtain the list of packages.

```
GET AV_Manager_URL/app_volumes/app_packages
```

2. Examine the response.

A successful response returns an HTTP status 200 with list of available applications and associated information about the application.

For example:

```
"data": [
   "id": 0,
   "name": "Notepad-7.0.1",
    "guid": "14848eb3-169b-4e8a-bcb7-556f1811c08c",
    "app product id": 3,
    "lifecycle stage id": 1,
    "state": "Package",
    "version": "7.0.1",
    "description": "This package is on its latest version 7.0.1",
    "note": "The Package is best suited for development and HR dept.",
    "display delivery": "Classic",
    "delivery": "classic",
    "capable of on demand": true,
    "status": "enabled",
    "programs count": 2,
    "icon": "/snapvols/9/Notepad++.7.0.1.png",
    "operating systems count": 0,
    "delete status": "deleting",
    "deleted at": "2021-12-04 13:10:13 -0800",
    "deleted at human": "Dec 04 2021",
    "created at": "2021-12-03 13:10:13 -0800",
    "created at human": "Dec 03 2021",
    "updated at": "2021-12-03 13:10:13 -0800",
    "updated at human": "Dec 03 2021",
    "added at": "2021-12-03 13:10:13 -0800",
    "added at human": "Dec 04 2021",
    "attachment count": 2,
    "type": "AppPackage",
    "format": "AV",
    "path": "appvolumes/packages",
    "filename": "Notepad++.vmdk",
    "enabled": true,
    "writable": false,
```

```
"datastore name": "datastore1",
        "files count": 2,
        "total use count": 5,
        "provision_uuid": "string",
        "provisioning": false,
        "provision completed at": "2021-08-17 10:32:32 +0530",
        "provision started at": "2021-08-17 10:30:26 +0530",
        "size mb": 73,
        "size human": "83.00 MB",
        "assignment count": 1,
        "volume guid": "{4f949610-35c1-4e52-9f71-89d899150007}",
        "snapvol_version_id": 0,
        "mount prefix": "",
        "mounted at": "2021-08-17 11:00:32 +0530",
        "template file name": "[data.1] appvolumes/packages templates/temp
late.vmdk",
        "template_version": "2.10.0.709",
        "missing": false,
        "protected": true,
        "agent version": "4.5.0.922D",
        "capture_version": "4.0",
        "free mb": 0,
        "total mb": 0,
        "attachment_limit": 2,
        "reachable": true,
        "provision duration": "2 minutes",
        "primordial_os_id": 2,
        "primordial os name": "Windows 10 (x64)",
        "feedback count": 25,
        "feedback config": {
          "enabled": true,
          "prompt after minutes": 2
        "app package feedback": {
          "total": 25,
          "positives": 15,
          "comments": 10,
          "positives percentage": "60",
          "negative percentage": "40"
        },
        "concurrent usage": 68,
        "target concurrent usage": 257,
        "total concurrent usage": 325,
        "peak usage": 2056,
        "target peak usage": 409,
        "total peak usage": 2465,
        "usage refreshed at": "2025-04-16 21:41:25 +0530",
        "active peak usage": {
          "usage count": 4056,
          "reset at": "2025-04-14 13:26:09 UTC"
        }
      }
    ]
  }
```

List App Links for a Package

To retrieve App Links for an application package, use this API. A successful API response retrieves data such as App Link name, URI, entry point, app run command-line, and so on.

To understand about App Links, see the Launch an App Volumes Application with an App Link section in the Omnissa App Volumes 4, version 2306, Administration Guide.

Prerequisites

Package ID is provided as the input parameter. To obtain the package ID, use the <code>GET AV_Manager_URL/app_volumes/app_packages</code> API. For more information about the API, see List All Available Packages.

Procedure

1. Make a GET request to obtain the list of App Links for a package.

```
GET AV_Manager_URL/app_volumes/app_packages/{id}/app_links
```

2. Examine the response.

A successful response returns the list of App Links data for the package with HTTP status 200.

For example:

```
"data": [
        "id": 1,
        "name": "Notepad++",
        "launch_uri": "applink://deliver?app=e57afe60-704d-4fbf-8276-3cdc786
89b96&launch=7e9e4004-742c-e493-1def-e2ba1332ee07",
        "entry_point": "C:\\ProgramData\\Microsoft\\Windows\\Start Menu\\Pro
grams\\Notepad++.lnk",
        "app_run_command": "\"%svagent%svservice\" app run e57afe60-704d-4fb
f-8276-3cdc78689b96 \"C:\\ProgramData\\Microsoft\\Windows\\Start Menu\\Pro
grams\\Notepad++.lnk\"",
        "description": "string"
    }
]
```

If Omnissa App Volumes is unable to locate the package, an HTTP error code 404 is returned with an error message:

```
{
  "errors": [
    {
      "title": "Incorrect package id 0 passed",
      "meta": {
      "manager": {
           "title": "Incorrect package id 0 passed"
}
```

```
}

}

}
```

List Assignments for a Package

List all the assignments for an application package. An assignment for the package is represented by an ID using the id parameter. The number of IDs indicate the number of assignments present for this package. The API contains the package name, package id, entity type and related information to which the application is assigned, filters (computer prefix), and so on.

entities

The parameter indicates the type of entity to which the application package is assigned. Entity types are User, Computer, Group, and Organization Unit (OU). If an application package has multiple assignments, then all the entities are listed.

filters

If you have assigned an application package to a non-computer entity and want to limit the delivery of the package to computers by using a specific prefix of a computer name, then the filters parameter can be used. The value indicates the prefix of the computer name. This parameter is displayed only when an application package is assigned to a non-computer entity type (User, Group, and Organizational Unit (OU)).

Prerequisites

Ensure that you are aware of the package ID for which you choose to list the assignments. To obtain the package ID, use the GET AV_Manager_URL/app_volumes/app_packages API. For more information about the API, see List All Available Packages.

Procedure

1. Make a GET request to obtain the list of assignments for a specific package ID.

```
GET AV_Manager_URL/app_volumes/app_packages/{id}/assignments
```

2. Examine the response.

A successful response returns the list of assignments for the package with HTTP status 200.

For example:

```
"data": [
    "id": 0,
    "description": "This package is on its latest version 7.0.1",
    "app_product_id": 0,
```

```
"app product name": "Notepad++",
      "app package id": 0,
      "app_package_name": "Notepad-7.0.1",
      "app marker id": 0,
      "app marker name": "CURRENT",
      "priority": 0,
      "mount prefix": "",
      "created at": "2021-12-03 13:10:13 -0800",
      "created_at_human": "Dec 03 2021",
      "updated_at": "2021-12-03 13:10:13 -0800",
      "updated at human": "Dec 03 2021",
      "entities": [
          "id": 1,
          "entity_type": "User",
"name": "testuser-1",
          "account name": "testuser-1",
          "upn": "SNAPVOLUMES\\testuser-1",
          "distinguished name": "CN=testuser-1,OU=Domain Users,DC=Snapvolu
mes, DC=com"
        }
      ],
      "filters": [
          "id": 3,
          "type": "ComputerPrefixFilter",
          "value": "COMP"
      ]
  ]
```

If Omnissa App Volumes is unable to locate the package, an HTTP error code 404 is returned with an error message:

```
"errors": [
    "title": "Incorrect package id 0 passed",
    "meta": {
        "manager": {
            "title": "Incorrect package id 0 passed"
        }
    }
}
```

List of Programs for a Package

You can get a list of all programs that are present in a specific application package and related information such as name of the publisher, install location of the program, version, package ID for which the program is listed, and so on.

Prerequisites

Ensure that you are aware of the package ID for which you choose to list the programs. To obtain the package ID, use the GET AV_Manager_URL/app_volumes/app_packages API. For more information, see List All Available Packages.

Procedure

1. Make a GET request to obtain the list of programs for a specific package ID.

```
GET AV_Manager_URL/app_volumes/app_packages/{id}/programs
```

2. Examine the response.

A successful response returns the list of programs for the package with HTTP status 200.

For example:

```
"data": [
    "id": 0,
    "name": "Office 16",
    "publisher": "Microsoft Corporation",
    "install_location": "string",
    "version": "16.0.10358.20061",
    "icon": "/snapvols/19/Office_16.png",
    "created_at": "2021-12-03 13:10:13 -0800",
    "created_at_human": "Dec 03 2021",
    "updated_at": "2021-12-03 13:10:13 -0800",
    "updated_at_human": "Dec 03 2021",
    "app_package_id": 0
}
```

If Omnissa App Volumes is unable to locate the package, an HTTP error code 404 is returned with an error message:

List All Lifecycle Stages

Use this API to list all the lifecycle stages of a package with the corresponding lifecycle stage ID. To update the lifecycle stage of a package, you can either use the ID or the name of the lifecycle stage when updating the package properties.

To update package properties, see Update a Package.

Some of the parameters used in this API are as follows:

name

This parameter indicates the lifecycle stage name of a package.

The stages of a package are as follows: New, Tested, Published, and Retired. For more information about the package stages, see *Lifecycle of a Package* in the *Omnissa App Volumes 4 Administration Guide* at Omnissa Product Documentation.

· priority

This is a read-only parameter used for displaying the values of the Stage field in the App Volumes Manager admin UI.

Procedure

1. Make a GET request to obtain all the lifecycle stages of a package:

```
GET AV_Manager_URL/app_volumes/lifcycle_stages
```

2. Examine the response.

A successful response returns an HTTP status 200 with the list of lifecycle stages of the package.

```
"data": [
        "id": 1,
        "name": "New",
        "priority": 0,
        "created at": "2022-08-14 23:41:30 +0530",
        "created at human": "Aug 14 2022",
        "updated at": "2022-08-14 23:41:30 +0530",
        "updated at human": "Aug 14 2022"
    },
        "id": 2,
        "name": "Tested",
        "priority": 1,
        "created at": "2022-08-14 23:41:30 +0530",
        "created at human": "Aug 14 2022",
        "updated at": "2022-08-14 23:41:30 +0530",
        "updated at human": "Aug 14 2022"
    },
```

```
"id": 3,
        "name": "Published",
        "priority": 2,
        "created at": "2022-08-14 23:41:30 +0530",
        "created at human": "Aug 14 2022",
        "updated at": "2022-08-14 23:41:30 +0530",
        "updated at human": "Aug 14 2022"
        "id": 4,
        "name": "Retired",
        "priority": 3,
        "created at": "2022-08-14 23:41:30 +0530",
        "created at human": "Aug 14 2022",
        "updated at": "2022-08-14 23:41:30 +0530",
        "updated at human": "Aug 14 2022"
    }
]
```

List All Available Application Package Feedback

Use this API to retrieve all the feedback records available for all packages across all applications. If the optional parameter, app package id, is specified, then feedback is retrieved only for a specific package.

The API request body contains the package name, package ID, entity type, related information to which the application is assigned, filters (computer prefix), and so on.

The API response contains the package ID. For every package ID, the attributes related to package feedback, such as whether the feedback is positive or negative, feedback text, and the executable path of the application for which the feedback is provided, and so on.

All parameters except api version are optional. The api version parameter is mandatory.

```
api version
```

This parameter indicates the version of the REST API used in App Volumes. The value of the parameter must be 4170.

```
page[number]
```

This parameter indicates the page number for which the feedback records must be listed. By default, the value of this parameter is 1.

```
page[size]
```

This parameter indicates the number of feedback records that must be listed on a page. By default, the value of this parameter is 10.

```
include
```

This parameter fetches the relationships of each package feedback, which are package ID (package for which the feedback is available) and user ID (user who provided the feedback).

The values supported by this parameter are as follows: app package and user.

Prerequisites

For an understanding of how to seek feedback from end users about the delivered package and the end user experience, see the *Seek App Volumes Application Usage Feedback from Users* section in the *Omnissa App Volumes Administration Guide* at Omnissa Product Documentation.

Procedure

1. Make a GET request to obtain the list of available feedback for all packages or a specific package.

```
GET AV Manager URL/app volumes/app package feedback
```

2. Examine the response.

A successful response returns an HTTP status 200 with a list of available feedback for all packages across all applications.

For example:

```
"data": [
        "id": 1,
        "type": "app package_feedback",
        "links": {
            "self": "http://localhost:3000/app volumes/package feedback/1"
        "attributes": {
            "created at": "2021-12-03 13:10:13 -0800",
            "updated at": "2021-12-03 13:10:13 -0800",
            "captured at": "2021-12-03 13:10:13 -0800",
            "captured at human": "Dec 03 2021",
            "is positive": true,
            "comment": "This is a great package!",
            "executable path": "C:\\Program Files\\Notepad++\\notepad++.ex
e"
        },
        "relationships": {
            "app package": {
            "data": {
                "type": "app packages",
                "id": 1
            }
            } ,
            "user": {
            "data": {
                "type": "users",
                "id": 1
            }
        }
    ],
    "included": [
        "id": 1,
        "type": "app_packages",
```

```
"attributes": {
            "name": "Notepad++ 7.2.0",
            "quid": "b9421adb-d6cb-47f0-81ba-10718d3a8611",
            "app product id": 1,
            "state": "Package",
            "version": "7.2.0",
            "programs count": 1,
            "operating systems_count": 1,
            "description": "string"
        }
    ],
    "meta": {
        "total": 18,
        "filtered": 18,
        "page count": 6
    "links": {
        "first": "http://localhost:3000/app volumes/app package feedback?i
nclude=app package%2Cuser&page%5Bnumber%5D=1&page%5Bsize%5D=3",
        "next": "http://localhost:3000/app volumes/app package feedback?in
clude=app_package%2Cuser&page%5Bnumber%5D=2&page%5Bsize%5D=3",
       "last": "http://localhost:3000/app volumes/app package feedback?in
clude=app package%2Cuser&page%5Bnumber%5D=3&page%5Bsize%5D=3"
```

If the API request is missing parameters or App Volumes Manager is not configured correctly, an HTTP response of 400 is returned.

Delete Application Package Feedback

Use this API to delete a specific feedback record using the feedback ID or delete all feedback for a specific package using the package ID.

Both feedback ID and package ID can be provided in the API request. If only the feedback ID is given, then the specific feedback that matches the ID is deleted. If only the package ID (app_package_ID) is provided, then all available feedback for that specific package is deleted. If both feedback ID and package ID are provided together, then each feedback ID is matched with the package ID, and the specific feedback ID is deleted only if the feedback belongs to the package.

Note:

It is mandatory to provide at least one ID (feedback ID or package ID) as a parameter in the request

body.

 While multiple feedback IDs can be provided in the API request, only a single package ID can be specified in each request.

Prerequisites

Ensure that you are aware of the feedback ID or the package ID. To obtain these IDs, see List All Available Application Package Feedback.

For an understanding of how to seek feedback from end users about the delivered package and the end user experience, see the *Seek App Volumes Application Usage Feedback from Users* section in the *Omnissa App Volumes Administration Guide* at Omnissa Product Documentation.

Procedure

1. Make a POST request to the App Volumes server to delete a specific feedback record or all available feedback for a specific package.

```
POST AV_Manager_URL/app_volumes/app_package_feedback/delete_batch/
```

In the following example, feedback IDs 1 and 2, and app package id 1 are provided.

For example:

2. Examine the response.

A successful request returns an HTTP status code 200 and a message indicating success or failure.

```
"data": {
    "deleted": [
    {
        "id": "1"
    }
    ],
    "not_deleted": [
    {
        "id": "2"
    }
    ]
},
    "success": "Deleted 1 Feedback"
}
```

If the required parameter is not provided, an HTTP status code 400 is returned.

```
"error": "Missing required parameters. Request must include either
'app_package_id' to delete all feedback for a package, or 'ids' array to d
elete specific feedback""
}
```

Reprompt Feedback for an Application Package

Feedback data can be reset, and the user can once again be prompted for feedback for the same package. Use this API to re-prompt feedback for a specific package.

Prerequisites

Ensure that you are aware of the package ID for which you intend to re-prompt feedback. To obtain this ID, see List All Available Application Package Feedback.

For an understanding of how to seek feedback from end users about the delivered package and the end user experience, see the *Seek App Volumes Application Usage Feedback from Users* section in the *Omnissa App Volumes Administration Guide* at Omnissa Product Documentation.

Procedure

1. Make a PUT request to re-prompt feedback for a package.

```
PUT AV Manager URL/app volumes/app packages/{id}/re prompt feedback
```

Examine the response.

A successful response returns an HTTP status code 200 with a message indicating the success status of the re-prompt.

```
{
    "success": true
}
```

If sufficient permissions are not present or the session has expired, an HTTP status code 403 is returned.

Working with APIs for Managing App Volumes Integration with Third-party Services

Currently in App Volumes, you can configure the integration between App Volumes Manager and Azure Virtual Desktop. You can use APIs to register an integration between App Volumes Manager and Azure Virtual Desktop and manage (update and delete) existing integrations. In addition to these operations, you can retrieve the list of all integrations, synchronize all integrations at the same time, or perform the retrieve and synchronize operations for just a specific integration.

Alternately, you can also use the App Volumes Manager admin UI for these operations. For more information about integrating App Volumes with third-party services, see the *Integrate App Volumes with Third Party Services* chapter in the App Volumes Administration Guide.

Prerequisites

Ensure that you have read through and performed all actions as mentioned in the *Deploy App Volumes Manager through Azure Marketplace* chapter in the App Volumes Install Guide.

Configure an Integration between App Volumes Manager and Azure Virtual Desktop

Use this API to configure an integration between App Volumes Manager and Azure Virtual Desktop. With this integration, CURRENT packages and certain application properties between App Volumes Manager and Azure Virtual Desktop are synchronized.

Note: For an integration, two authorization methods are supported: Managed Identity and Application Registration. Tenant ID, Client ID, and Client Secret are required when using Application Registration.

Parameters

api_version is a mandatory parameter to be used with this API. This parameter indicates the version of the REST API used in App Volumes. The value of the parameter must be 4160.

Prerequisites

Ensure that you are aware of the prerequisites and other related information before configuring this integration. See the *Configure App Volumes Manager Integration with Azure Virtual Desktop* topic in the App Volumes Administration Guide.

Procedure

1. Make a POST request to configure an integration between App Volumes Manager and Azure Virtual Desktop.

```
POST AV Manager URL/app volumes/avd integrations
```

In the following example, type, and attributes such as name, organization, group, tenant, client id, client secret, and integration tags are provided.

```
"data": {
    "type": "avd_integrations",
    "attributes": {
        "name": "Prod West US Integration",
        "organization": "f68c64fd-870c-4d07-a9f6-b6ff41b76c38",
        "group": "ResourceGroup",
        "tenant": "e59c64fd-870c-4d07-a9f6-b6ff41b76d11",
        "client_id": "d79c64fd-870c-4d07-a9f6-b6ff41b76d18",
        "client_secret": "client_secret_value",
        "integration_tags": {
              "tag_key": "tag_value"
        }
    }
}
```

2. Examine the response.

A successful request returns an HTTP status code 200. In this example, Prod West US
Integration is the name of the integration configured between App Volumes Manager and Azure
Virtual Desktop. The response includes all details of this integration including the relationships
(integration_tags) and the data of the integration_tags is present within the
included parameter.

```
"data": {
    "id": "5F02DE3B-BAB1-4FDB-8065-ABB8711013EF",
    "type": "avd integrations",
    "links": {
       "self": "http://localhost:3000/app volumes/...?page%5Bnumber%5
D=1&page%5Bsize%5D=3"
    },
    "attributes": {
        "name": "Prod West US Integration",
        "organization": "f68c64fd-870c-4d07-a9f6-b6ff41b76c38",
        "group": "ResourceGroup",
        "tenant": "e59c64fd-870c-4d07-a9f6-b6ff41b76d11",
        "client id": "d79c64fd-870c-4d07-a9f6-b6ff41b76d18",
        "credential id": "118",
        "guid": "1b38f44f-cb39-46fa-bcac-d72af508ddee",
        "configuration id": null,
        "configuration message": "Works great!",
        "configuration status": "Active",
        "configuration type": "AVD",
        "enabled": true,
        "quota message": null,
        "quota status": null,
        "integration count": 0,
        "status": "active",
        "delete status": "deleting",
        "synced at": "2021-12-03 13:10:13 -0800",
        "synced at human": "Dec 03 2021",
        "deleted at": "2021-12-04 13:10:13 -0800",
        "deleted at human": "Dec 04 2021",
        "created at": "2021-12-03 13:10:13 -0800",
        "created at human": "Dec 03 2021",
        "updated at": "2021-12-03 13:10:13 -0800",
```

```
"updated at human": "Dec 03 2021",
        "sync scheduled at": "2021-12-03 13:10:13 -0800",
        "sync scheduled at human": "Dec 03 2021"
    },
    "relationships": {
        "integration tags": {
            "data": [
                "type": "integration_tags",
                "id": 20
            ]
        }
    }
"included": [
    {
        "id": 20,
        "type": "integration tags",
        "attributes": {
            "key": "environment",
            "value": "test",
            "parent guid": "5F02DE3B-BAB1-4FDB-8065-ABB8711013EF",
            "parent id": 0,
            "created at": "2021-12-03 13:10:13 -0800",
            "created at human": "Dec 03 2021",
            "updated at": "2021-12-03 13:10:13 -0800",
            "updated at human": "Dec 03 2021"
]
}
```

 If you do not provide the required data in the request, an HTTP status code 400 is returned. For example, if the client secret ID is provided instead of the client secret value in the request, then the following response is fetched:

Update an Existing App Volumes Manager and Azure Virtual Desktop Integration

Use this API to update an existing, specific integration between App Volumes Manager and Azure Virtual Desktop.

Note: All attributes except organization (subscription ID) and group can be edited. For more information about editing an integration, see the *What To Do Next* section in *Configure App Volumes Manager Integration with Azure Virtual Desktop* topic in the App Volumes Administration Guide.

Parameters

These are the mandatory parameters that must be used with this API.

· api version

This parameter indicates the version of the REST API used in App Volumes. The value of the parameter must be 4160.

• id

This parameter indicates a specific integration which you choose to update. To obtain the id of the integration, see List All App Volumes Manager and Azure Virtual Desktop Integrations.

Prerequisites

For information about using the API to configure an integration, see the *Configure App Volumes Manager Integration with Azure Virtual Desktop* topic in the App Volumes Administration Guide.

Procedure

1. Make a PUT request to update details of an existing integration by specifying the integration ID.

```
PUT AV_Manager_URL/app_volumes/avd_integrations/{id}
```

For example:

```
"data": {
    "type": "avd_integrations",
    "attributes": {
        "name": "Prod West US Integration",
        "organization": "f68c64fd-870c-4d07-a9f6-b6ff41b76c38",
        "group": "ResourceGroup",
        "tenant": "e59c64fd-870c-4d07-a9f6-b6ff41b76d11",
        "client_id": "d79c64fd-870c-4d07-a9f6-b6ff41b76d18",
        "client_secret": "updated_client_secret_value",
        "integration_tags": {
              "tag_key": "updated_tag_value"
        }
}
```

```
}
```

2. Examine the response.

A successful response returns the details of the updated integration with an HTTP status 200.

For example:

```
"data": {
        "id": "5F02DE3B-BAB1-4FDB-8065-ABB8711013EF",
        "type": "avd integrations",
        "links": {
            "self": "http://localhost:3000/app volumes/...?page%5Bnu
mber%5D=1&page%5Bsize%5D=3"
        },
        "attributes": {
            "name": "Prod West US Integration",
            "organization": "f68c64fd-870c-4d07-a9f6-b6ff41b76c38",
            "group": "ResourceGroup",
            "tenant": "e59c64fd-870c-4d07-a9f6-b6ff41b76d11",
            "client id": "d79c64fd-870c-4d07-a9f6-b6ff41b76d18",
            "credential id": "118",
            "quid": "1b38f44f-cb39-46fa-bcac-d72af508ddee",
            "configuration id": null,
            "configuration message": "Works great!",
            "configuration status": "Active",
            "configuration type": "AVD",
            "enabled": true,
            "quota message": null,
            "quota status": null,
            "integration count": 0,
            "status": "active",
            "delete status": "deleting",
            "synced at": "2021-12-03 13:10:13 -0800",
            "synced_at_human": "Dec 03 2021",
            "deleted at": "2021-12-04 13:10:13 -0800",
            "deleted at human": "Dec 04 2021",
            "created at": "2021-12-03 13:10:13 -0800",
            "created at human": "Dec 03 2021",
            "updated at": "2021-12-03 13:10:13 -0800",
            "updated_at_human": "Dec 03 2021",
"sync_scheduled_at": "2021-12-03 13:10:13 -0800",
            "sync scheduled at human": "Dec 03 2021"
        },
        "relationships": {
            "integration tags": {
                 "data": [
                         "type": "integration tags",
                         "id": 20
                1
            }
        }
    },
```

```
"included": [
        {
            "id": 20,
            "type": "integration tags",
            "attributes": {
                "key": "production",
                "value": "test",
                "parent guid": "5F02DE3B-BAB1-4FDB-8065-ABB8711013E
F",
                "parent id": 0,
                "created at": "2021-12-03 13:10:13 -0800",
                "created at human": "Dec 03 2021",
                "updated at": "2021-12-03 13:10:13 -0800",
                "updated at human": "Dec 03 2021"
        }
    ]
}
```

 If you do not provide the required data in the request, an HTTP status code 400 is returned. For example, if you provide the tag name which is a reserved keyword, then the following response is fetched:

Delete an App Volumes Manager and Azure Virtual Desktop Integration

Use this API to delete a specific integration between App Volumes Manager and Azure Virtual Desktop.

Note: When an integration is deleted, all the associated, synchronized App attach packages are deleted from Azure Virtual Desktop. In the App Volumes Manager admin UI, you can use the **DELETE** button to perform this action.

Parameters

api version and id are mandatory parameters whereas force is an optional parameter.

• api version

This parameter indicates the version of the REST API used in App Volumes. The value of the parameter must be 4150.

• id

This parameter indicates a specific integration which you choose to delete. To obtain the id of the integration, see List All App Volumes Manager and Azure Virtual Desktop Integrations.

force

This parameter deletes the integration record from the App Volumes database, but does not delete the App attach packages from Azure Virtual Desktop. After the record is deleted from the database, App attach packages must be manually deleted from Azure Virtual Desktop.

If an integration fails to get deleted due to issues in the network or within Azure, then such an integration is in the *Delete Failed* status. In such a situation, using the force parameter deletes the integration record from App Volumes database.

The values of this parameter can be true or false. By default, the value of this parameter is false.

Procedure

1. Send a DELETE request to delete a specific integration between App Volumes Manager and Azure Virtual Desktop.

```
DELETE AV Manager URL/app volumes/avd integrations/{id}
```

- 2. Examine the response.
 - A successful request returns an HTTP status code 200 with detailed information about the deleted integration.

```
"data": {
        "id": "5F02DE3B-BAB1-4FDB-8065-ABB8711013EF",
        "type": "avd integrations",
        "links": {
        "self": "http://localhost:3000/app volumes/...?page%5Bnumbe
r%5D=1&page%5Bsize%5D=3"
        },
        "attributes": {
        "name": "Prod West US Integration",
        "organization": "f68c64fd-870c-4d07-a9f6-b6ff41b76c38",
        "group": "ResourceGroup",
        "tenant": "e59c64fd-870c-4d07-a9f6-b6ff41b76d11",
        "client id": "d79c64fd-870c-4d07-a9f6-b6ff41b76d18",
        "credential id": "118",
        "quid": "1b38f44f-cb39-46fa-bcac-d72af508ddee",
        "configuration id": null,
        "configuration message": "Works great!",
        "configuration status": "Active",
        "configuration type": "AVD",
        "enabled": true,
        "quota message": null,
        "quota status": null,
        "integration count": 0,
        "status": "active",
```

```
"delete status": "deleting",
    "synced at": "2021-12-03 13:10:13 -0800",
    "synced at human": "Dec 03 2021",
    "deleted at": "2021-12-04 13:10:13 -0800",
    "deleted at human": "Dec 04 2021",
    "created at": "2021-12-03 13:10:13 -0800",
    "created at human": "Dec 03 2021",
    "updated at": "2021-12-03 13:10:13 -0800",
    "updated_at_human": "Dec 03 2021",
"sync_scheduled_at": "2021-12-03 13:10:13 -0800",
    "sync scheduled at human": "Dec 03 2021"
    "relationships": {
    "integration tags": {
        "data": [
             "type": "integration tags",
             "id": 20
"included": [
    "id": 20,
    "type": "integration tags",
    "attributes": {
        "key": "environment",
        "value": "test",
        "parent_guid": "5F02DE3B-BAB1-4FDB-8065-ABB8711013EF",
        "parent id": 0,
        "created at": "2021-12-03 13:10:13 -0800",
        "created at human": "Dec 03 2021",
        "updated at": "2021-12-03 13:10:13 -0800",
        "updated at human": "Dec 03 2021"
]
```

 If an invalid parameter is provided in the API request, then HTTP status code 400 is returned and the integration is not deleted.

For example, if api_version is provided incorrectly as 4240, then the following response is fetched:

```
{
    "errors": "Invalid or unsupported API version requested: 4240"
}
```

List All App Volumes Manager and Azure Virtual Desktop Integrations

Use this API to list all configured integrations and the information associated with each integration such as name,

organization (subscription ID), resource group, tenant ID, client ID, tag value and key, and so on.

Parameters

All parameters except api_version are optional. The api_version parameter is mandatory. You can choose to list the integrations on a specific page using the pagination parameters such as page[number] and page[size].

page[number]

This parameter indicates the page number for which the integration records must be listed. The default value is 1.

Note: At a time, only one page number can be provided as the parameter value.

page[size]

This parameter indicates the number of integration records that must be listed on a page. The default value is 10.

· api version

This parameter indicates the version of the REST API used in App Volumes. The value of the parameter must be 4160.

include

This parameter fetches relationships of each integration tag (integration_tags) added to the integration.

filter[name], filter[organization], filter[type], filter[status]
 filter[integration count]

The filter parameters allow retrieving integration records based on the name of the integration, organization (subscription ID), type of integration (AVD), status of the integration, and integration count (number of application packages that are available for synchronization in each integration).

• links

Displays the links to the first, next, and last pages of the integration records.

- first displays the link to the first page of the integration records
- next displays the link to the page next to the page number specified in the GET request (page[num])
- last displays the link to the last page of the integration records.

Procedure

1. Make a GET request to obtain all the integration records that exist between App Volumes Manager and Azure Virtual Desktop.

```
GET AV_Manager_URL/app_volumes/integrations
```

Note: If no pagination parameters are specified in the GET request, the first ten integration records are fetched in the response.

2. Examine the response.

A successful response returns available data for each integration record with HTTP status 200.
 If the include parameter is provided in the GET request, the response displays the included object.

```
"data": [
        "id": "2d3c3de2-dc8e-4cf9-8e26-ec36cdc79b26",
        "type": "avd integrations",
        "links": {
            "self": "http://localhost:3000/app volumes/avd integrations/2d
3c3de2-dc8e-4cf9-8e26-ec36cdc79b26"
        },
        "attributes": {
            "name": "ANUJ TEST 001",
            "guid": "2d3c3de2-dc8e-4cf9-8e26-ec36cdc79b26",
            "tenant": "43fd6a96-86b1-4515-becc-a03541265cea",
            "organization": "d6e21103-6f9f-4ef7-9e0b-a94bfb946fc4",
            "group": "ANUJ TEST 001",
            "configuration id": null,
            "configuration type": null,
            "configuration status": "Active",
            "configuration message": "",
            "quota status": null,
            "quota message": null,
            "integration count": 6,
            "enabled": true,
            "status": "Active",
            "credential id": 7,
            "synced at": "2024-11-26 09:02:08 -0800",
            "synced at human": "Nov 26 2024",
            "sync scheduled at": null,
            "sync scheduled at human": "",
            "created at": "2024-11-26 09:01:29 -0800",
            "created at human": "Nov 26 2024",
            "updated at": "2024-11-26 09:02:08 -0800",
            "updated at human": "Nov 26 2024",
            "delete status": null,
            "deleted at": null,
            "deleted at human": "",
            "client id": "609b7870-f8ce-47cf-aaf7-1d6f87f2e481"
        },
        "relationships": {
            "integration tags": {
            "data": [
                "type": "integration tags",
                "id": "280"
            ]
        }
        "id": "f5057946-aee7-44d7-8fc2-0d5c7a542c09",
        "type": "avd integrations",
        "links": {
```

```
"self": "http://localhost:3000/app volumes/avd integrations/f5
057946-aee7-44d7-8fc2-0d5c7a542c09"
        },
        "attributes": {
            "name": "DIGEUCVMW.onmicrosoft.com",
            "guid": "f5057946-aee7-44d7-8fc2-0d5c7a542c09",
            "tenant": "f0d0eb57-325a-4a72-8340-75708d7b69a9",
            "organization": "f5760cc9-f9b9-4429-afa6-83c6adae7904",
            "group": "App Volumes RG",
            "configuration id": null,
            "configuration type": null,
            "configuration status": "Active",
            "configuration message": "",
            "quota status": null,
            "quota message": null,
            "integration count": 6,
            "enabled": true,
            "status": "Active",
            "credential id": 8,
            "synced at": "2024-11-26 09:02:49 -0800",
            "synced at human": "Nov 26 2024",
            "sync scheduled at": null,
            "sync scheduled at human": "",
            "created at": "2024-11-26 09:02:22 -0800",
            "created at human": "Nov 26 2024",
            "updated at": "2024-11-26 09:02:49 -0800",
            "updated at human": "Nov 26 2024",
            "delete status": null,
            "deleted at": null,
            "deleted at human": "",
            "client id": "2159cf93-42f5-4161-95fc-a67184e9320b"
        "relationships": {
            "integration tags": {
            "data": [
                "type": "integration tags",
                "id": "281"
                "type": "integration tags",
                "id": "282"
            1
    ],
    "included": [
        "id": "280",
        "type": "integration tags",
        "attributes": {
            "key": "owner",
            "value": "anujp",
            "parent guid": "2d3c3de2-dc8e-4cf9-8e26-ec36cdc79b26",
            "parent id": null,
            "created at": "2024-11-26 09:01:29 -0800",
```

```
"created_at_human": "Nov 26 2024",
            "updated at": "2024-11-26 09:01:29 -0800",
            "updated at human": "Nov 26 2024"
        },
        "id": "281",
        "type": "integration tags",
        "attributes": {
            "key": "owner",
            "value": "anujp",
            "parent guid": "f5057946-aee7-44d7-8fc2-0d5c7a542c09",
            "parent id": null,
            "created at": "2024-11-26 09:02:22 -0800",
            "created at human": "Nov 26 2024",
            "updated at": "2024-11-26 09:02:22 -0800",
            "updated at human": "Nov 26 2024"
        },
        "id": "282",
        "type": "integration tags",
        "attributes": {
            "key": "testing",
            "value": "123",
            "parent guid": "f5057946-aee7-44d7-8fc2-0d5c7a542c09",
            "parent id": null,
            "created at": "2024-11-26 09:02:22 -0800",
            "created_at_human": "Nov 26 2024",
            "updated at": "2024-11-26 09:02:22 -0800",
            "updated at human": "Nov 26 2024"
        }
        }
    ],
    "meta": {
        "request id": 1,
        "total": 2,
        "filtered": 2,
        "page count": 1
    },
    "links": {
        "first": "http://localhost:3000/app volumes/integrations?include=i
ntegration tags&page%5Bnumber%5D=1&page%5Bsize%5D=10",
        "last": "http://localhost:3000/app volumes/integrations?include=in
tegration tags&page%5Bnumber%5D=1&page%5Bsize%5D=10"
```

 If you do not provide the required data in the request, an HTTP status code 400 is returned and the integration details are not fetched. For example, if api_version is incorrectly provided as 4240 in the request, then the following response is fetched:

```
{
    "errors": "Invalid or unsupported API version requested: 4240"
}
```

List Details of a Specific Integration

Use this API to list a specific integration and the information associated with that integration.

Parameters

api version and id are mandatory parameters whereas include is an optional parameter.

• api_version

This parameter indicates the version of the REST API used in App Volumes. The value of the parameter must be 4160.

• id

This parameter indicates a specific integration which you choose to list. To obtain the id of the integration, see List All App Volumes Manager and Azure Virtual Desktop Integrations.

include

This parameter fetches relationships of each integration tag (integration_tags) added to this integration.

Procedure

1. Make a GET request to obtain the details of a specific integration.

```
GET AV_Manager_URL/app_volumes/integrations/{id}
```

- 2. Examine the response.
 - A successful response returns details of that specific integration with HTTP status 200.

In this example, "id": "5F02DE3B-BAB1-4FDB-8065-ABB8711013EF" is provided in the request and the following details are fetched for the integration, Prod West US Integration.

```
"data": {
    "id": "5F02DE3B-BAB1-4FDB-8065-ABB8711013EF",
    "type": "avd_integrations",
    "links": {
        "self": "http://localhost:3000/app_volumes/...?page%5Bnumbe
r%5D=1&page%5Bsize%5D=3"
    },
    "attributes": {
        "name": "Prod West US Integration",
        "organization": "f68c64fd-870c-4d07-a9f6-b6ff41b76c38",
        "group": "ResourceGroup",
        "tenant": "e59c64fd-870c-4d07-a9f6-b6ff41b76d11",
        "client_id": "d79c64fd-870c-4d07-a9f6-b6ff41b76d18",
        "credential_id": "118",
        "guid": "1b38f44f-cb39-46fa-bcac-d72af508ddee",
```

```
"configuration id": null,
            "configuration message": "Works great!",
            "configuration status": "Active",
            "configuration type": "AVD",
            "enabled": true,
            "quota message": null,
            "quota status": null,
            "integration count": 0,
            "status": "active",
            "delete status": "deleting",
            "synced at": "2021-12-03 13:10:13 -0800",
            "synced_at_human": "Dec 03 2021",
            "deleted at": "2021-12-04 13:10:13 -0800",
            "deleted at human": "Dec 04 2021",
            "created at": "2021-12-03 13:10:13 -0800",
            "created at human": "Dec 03 2021",
            "updated at": "2021-12-03 13:10:13 -0800",
            "updated at human": "Dec 03 2021",
            "sync scheduled at": "2021-12-03 13:10:13 -0800",
            "sync scheduled at human": "Dec 03 2021"
        },
        "relationships": {
            "integration tags": {
                "data": [
                         "type": "integration tags",
                         "id": 20
                ]
        }
    },
    "included": [
        "id": 20,
        "type": "integration tags",
        "attributes": {
                "key": "environment",
                "value": "test",
                "parent quid": "5F02DE3B-BAB1-4FDB-8065-ABB8711013E
F",
                "parent id": 0,
                "created at": "2021-12-03 13:10:13 -0800",
                "created at human": "Dec 03 2021",
                "updated at": "2021-12-03 13:10:13 -0800",
                "updated_at_human": "Dec 03 2021"
        }
    ]
```

If you do not provide the required data in the request, an HTTP status code 400 is returned and
the integration details are not fetched. For example, if api_version is incorrectly provided as
4240 in the request, then the following response is fetched:

```
{
    "errors": "Invalid or unsupported API version requested: 4240"
```

Synchronize All App Volumes Manager and Azure Virtual Desktop Integrations

Use this API to initiate synchronization for all configured integrations between App Volumes Manager and Azure Virtual Desktop. This synchronization process ensures that all CURRENT packages across all integrations are synchronized with Azure Virtual Desktop.

Parameters

· api version

This parameter indicates the version of the REST API used in App Volumes. The value of the parameter must be 4150.

action

This parameter can be used to trigger synchronization for either a specific integration or for all configured integrations.

The values of this parameter are as follows:

- sync all triggers synchronization for all configured integrations
- sync triggers synchronization for a specific integration

Prerequisites

For information about synchronization, see *Synchronization Triggers between App Volumes Manager and Azure Virtual Desktop Integration* and *Manually Synchronize App Volumes Manager and Azure Virtual Desktop Integrations* topics in the App Volumes Administration Guide.

Procedure

1. Make a POST request to synchronize CURRENT application packages of all integrations with Azure Virtual Desktop.

```
POST AV Manager URL/app volumes/integrations
```

- 2. Examine the response.
 - A successful request returns an HTTP status code 200 and scheduled as true in the
 response. In the following example, the scheduled parameter indicates that synchronization is
 successfully scheduled for all enabled (active) integrations. As a result, all CURRENT packages
 across all integrations are synchronized with Azure Virtual Desktop.

```
{
   "meta": {
      "message": "Scheduled synchronization for all enabled integr
```

When synchronization is in progress and if you repeatedly try to synchronize, the following response is fetched:

```
{
    "meta": {
        "message": "Synchronization for all enabled integrations is
already scheduled",
        "scheduled": false
    }
}
```

 If an invalid parameter is provided in the API request, then HTTP status code 400 is returned and synchronization is not performed.

For example, if api_version is provided incorrectly as 4240, then the following response is fetched:

```
{
    "errors": "Invalid or unsupported API version requested: 4240"
}
```

Synchronize a Specific App Volumes Manager and Azure Virtual Desktop Integration

Use this API to initiate synchronization for a specific configured integration by providing an integration ID. This synchronization process ensures that all the CURRENT packages for that integration is synchronized with Azure Virtual Desktop.

Parameters

All parameters are mandatory when using this API.

· api version

This parameter indicates the version of the REST API used in App Volumes. The value of the parameter must be 4150.

action

This parameter can be used to trigger synchronization for either a specific integration or for all configured integrations.

The values of this parameter are as follows:

- sync all triggers synchronization for all configured integrations
- sync triggers synchronization for a specific integration

• id

This parameter indicates the specific integration which needs to be synchronized.

Prerequisites

For information about synchronization, see Synchronization Triggers between App Volumes Manager and Azure Virtual Desktop Integration and Manually Synchronize App Volumes Manager and Azure Virtual Desktop Integrations topics in the App Volumes Administration Guide.

Procedure

1. Make a POST request to synchronize CURRENT packages of this specific integration with Azure Virtual Desktop.

```
POST AV Manager URL/app volumes/integrations/{id}
```

- 2. Examine the response.
 - A successful request returns an HTTP status code 200 and scheduled as true. In the following example, synchronization is successfully done for TestAvdIntegration. As a result, all CURRENT packages of this integration are synchronized with Azure Virtual Desktop.

```
"meta": {
    "message": "Scheduled synchronization for integration TestAv
dIntegration",
    "scheduled": true
    }
}
```

 If an invalid parameter is provided in the API request, then HTTP status code 400 is returned and the synchronization is not performed.
 For example, if api_version is provided incorrectly as 4240, then the following response is fetched:

```
{
   "errors": "Invalid or unsupported API version requested: 4240"
}
```

Working with Writable Volumes APIs

You can perform various operations on the Writable Volumes using the APIs.

You can get detailed information about the Writable Volume, and expand, update, or delete a volume.

List Writable Volumes and Datastore Information

Retrieve a list of Writable Volumes and the associated datastore information such the volume GUID, the date and time it was created, whether the volume is attached, and so on.

Few attributes in this API are used for indicating the space on Writable Volumes. The unit of measurement for these attributes is in MB. They are as follows:

total_mb

Current total space present on the Writable Volume

This value can differ from size_mb and requested_mb due to datastore file formatting and expansion operations.

· free mb

Currently available free space on the Writable Volume

size_mb

Currently used space on the Writable Volume

· requested_mb

Requested size of the Writable Volume as mentioned in the API used for expanding the Writable Volume.

The value of this attribute is null after the volume is expanded or if no request for expansion has been made. This value can differ from total mb due to datastore file formatting and expansion operations.

Procedure

1. Send the following GET request to retrieve the list of Writable Volumes.

```
GET AV_Manager_URL/app_volumes/writables
```

2. Examine the response.

A list of volumes and associated information is returned. For example:

```
"owner name": "TestUser",
      "owner_type": "User",
      "owner upn": "SNAPVOLUMES\test user",
      "owner object guid": "8da04bfa-bbbe-45c3-9cbf-2d3d03897b84",
      "created at": "2021-12-03 13:10:13 -0800",
      "created at human": "Dec 03 2021",
      "updated at": "2021-12-03 13:10:13 -0800",
      "updated at human": "Dec 03 2021",
      "mounted_at": "2021-12-03 13:10:13 -0800",
      "mounted at human": "Dec 03 2021",
      "attached": "Attached",
      "status": "missing",
      "mount count": 0,
      "total mb": 10237,
      "free mb": 5237,
      "size mb": 5000,
      "requested mb": 20480,
      "percent available": "Unknown",
      "template version": "4.0.0",
      "version count": 0,
      "type": "DataDisk",
      "display type": "Writable Volume",
      "error action": "string",
      "busy": false,
      "state": "Moving",
      "filename": "snapvolumes test user.vmdk",
      "path": "appvolumes/writable",
      "datastore name": "SSD Disk Array RAID8",
      "volume guid": "volumeguid-8-volumeguid",
      "datastore host": "null",
      "can expand": true
    }
 ],
  "counts": {
    "total": 1,
    "warning": 0,
    "critical": 0
}
```

Retrieve Writable Volume Information

Retrieve information about a Writable Volume such as the name, owner, size, path to the Writable Volume, and so on.

Few attributes in this API are used for indicating the space on Writable Volumes. The unit of measurement for these attributes is in MB. For information about these attributes, see List Writable Volumes and Datastore Information.

Prerequisites

You must know the ID of the Writable Volume for which you want to retrieve the information.

Procedure

1. Send the following GET request to retrieve the list of volumes.

```
GET AV Manager URL/app volumes/writables/{id}
```

If the request is completed successfully, an HTTP status code of 200 is returned with information about the volume. For example:

```
"writable": {
   "id": 0,
   "name": "SNAPVOLUMES\test user",
    "name html": "SNAPVOLUMES\test user",
    "title": "SNAPVOLUMES\test user",
    "title html": "SNAPVOLUMES\test user",
    "owner": "<a href=\\\"/directory#/Users/2\\\" title=\\\"test use
r\\\">TESTDOMAIN\\\test user</a>",
    "link": "/directory#/Users/2",
    "owner id": 3,
    "owner name": "TestUser",
    "owner type": "User",
    "owner upn": "SNAPVOLUMES\test user",
    "owner upn html": "SNAPVOLUMES\test user",
    "owner object guid": "8da04bfa-bbbe-45c3-9cbf-2d3d03897b84",
    "description": "My writable volume",
    "created at": "2021-12-03 13:10:13 -0800",
    "created at human": "Dec 03 2021",
    "updated at": "2021-12-03 13:10:13 -0800",
    "updated at human": "Dec 03 2021",
    "mounted at": "2021-12-03 13:10:13 -0800",
    "mounted at human": "Dec 03 2021",
    "mounted on": "Machine <DESKTOP-VM123> (#{1234567812345678})",
    "mount count": 0,
    "attached": "Attached",
    "status": "enabled",
    "version count": 0,
    "version tag": "0",
    "error action": "",
    "block login": true,
    "enable version": false,
    "mount prefix": "DESKTOP",
    "defer create": true,
    "total mb": 10237,
    "free mb": 5237,
    "size mb": 5000,
    "requested mb": 20480,
    "template version": "4.0.0",
    "busy": false,
    "state": "Moving",
    "volume guid": "volumeguid-8-volumeguid",
    "datastore name": "SSD Disk Array RAID8",
    "machine manager host": "0.0.0.0",
    "machine_manager_type": "Machine Manager",
    "path": "appvolumes/writable",
    "filename": "snapvolumes test user 15.vmdk",
    "file location": "[SSD Disk Array RAID8] appvolumes/writable/snapvolum
es test user 15.vmdk",
```

If Omnissa App Volumes is unable to locate a Writable Volume, an HTTP error code 404 is returned with the following error message: Writable Volume was not found.

Expand a Writable Volume

Increase the size of a Writable Volume.

When expanding a Writable Volume, <code>size_mb</code> attribute is used to provide the requested size for the Writable Volume. When using the APIs for listing multiple Writable Volumes or a specific Writable Volume, the value of the <code>requested_mb</code> attribute is the same as the <code>size_mb</code> attribute used in this API. All units of measurement are in MB. For more information about <code>requested_mb</code>, see List Writable Volumes and Datastore Information.

Prerequisites

Before you expand the Writable Volume, ensure the following:

- · The Writable Volume is not attached.
- You have logged out from the Writable Volume.
- The App Volumes Manager is licensed and configured correctly.

Procedure

1. Make a POST request to expand the Writable Volume by including the volume ID and the size you want to expand the volume to in the POST request body.

```
POST AV_Manager_URL/app_volumes/writables/grow
```

The following example shows a request where a Writable Volume id 0 is expanded to 20480 MB:

```
{
    "size_mb": 20480,
```

```
"volumes": [
    0
    ]
}
```

2. Examine the response.

A successful request returns 200 with a message.

For example:

```
{
    "success": [
        "Successfully expanded the Writable VOlume to 20480 MB"
    ]
}
```

You might also get an HTTP response of 200 when there are warnings or errors.

For example: The following warning is displayed if you have not detached the volume or logged out from the Writable Volume

```
"warnings": [ "Writable Volume XYZ is attached. Make sure you shut down/l ogoff XYZ." ] }
```

For example: The following warning is displayed when there is a mismatch between the provided size of the Writable Volume and the current size.

```
"errors": [ "Error expanding Writable Volume XYZ" ]
```

If the request is missing parameters or if App Volumes Manager is not configured correctly, an HTTP response of 400 is returned.

If App Volumes is unable to locate a Writable Volume, an HTTP error code 404 is returned with the following error message: Writable Volume was not found.

Update a Writable Volume

You can update Writable Volume settings such as description, whether users can log in if there is a failure, prefix value of the computer the volume must be mounted to, and the operating system.

Prerequisites

Ensure that the Writable Volume you want to modify is not attached and that you have logged off from the given volume.

Procedure

1. Make a PUT request to update the volume. Include the properties of the volume that you want to update in the request body.

PUT AV_Manager_URL/app_volumes/writables/{id}

You can update the following properties of the Writable Volume:

Option	Description
Description (string)	Description of the Writable Volume.
error-action (string)	 continue_silently - skip attachments and do not alert the user. continue_alert - alert the end user that the writable was not attached. disable_and_alert - disable all virtualization and display an alert. disable_and_alert_on_error - disable all virtualization and display an alert only for error cases (conflicts due to multiple logins are not considered an error). Must set as "" if a) owner_type is "Computer" or b) block_login parameter is set to "1".
block_login (integer)	 Set to '0' to prevent users from logging in if there are failures related to this Writable Volume. Set to '1' to allow users to log in even if there are failures related to this Writable Volume.
mount_prefix	Prefix used to filter which computer the Writable Volume can be mounted to.
os	The IDs of OSes the Writable Volume can be mounted to.

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For example:

```
"description": "Writable Volume for Administrator",
  "error_action": "",
  "block_login": 0,
  "mount_prefix": "DESKTOP",
  "oses": [
    0
]
```

2. Examine the response.

A successful request returns HTTP response 200 with the following message:

```
Saved Writable changes.
```

If Omnissa App Volumes is unable to locate a Writable Volume, an HTTP error code 404 is returned with the following error message: Writable Volume was not found.

Delete a Writable Volume

When a Writable Volume is deleted, the volume is immediately detached from all computers. All associated data and settings are also permanently deleted.

Prerequisites

- Ensure that the Writable Volume you want to delete is not in use by any user or computer.
- You must know the ID of the Writable Volume that you want to delete.

Procedure

1. Send the following DELETE request to delete a volume. You can also set the volume to be deleted in the background.

```
DELETE /app_volumes/writables/{id}
```

2. Examine the response. If the volume is deleted successfully, you will receive an HTTP status code 200 with detailed information about the deleted volume.

For example:

```
"name html": "SNAPVOLUMES\test user",
        "title": "SNAPVOLUMES\test user",
        "title html": "SNAPVOLUMES\test user",
        "owner": "<a href=\\\"/directory#/Users/2\\\" title=\\\"test use
r\\\">TESTDOMAIN\\\test user</a>",
        "link": "/directory#/Users/2",
        "owner id": 3,
        "owner name": "TestUser",
        "owner type": "User",
        "owner upn": "SNAPVOLUMES\test user",
        "owner upn html": "SNAPVOLUMES\test user",
        "owner object guid": "8da04bfa-bbbe-45c3-9cbf-2d3d03897b84",
        "description": "My writable volume",
        "created at": "2021-12-03 13:10:13 -0800",
        "created at human": "Dec 03 2021",
        "updated at": "2021-12-03 13:10:13 -0800",
        "updated at human": "Dec 03 2021",
        "mounted at": "2021-12-03 13:10:13 -0800",
        "mounted at human": "Dec 03 2021",
        "mounted on": "Machine <DESKTOP-VM123> (#{1234567812345678})",
        "mount count": 0,
        "attached": "Attached",
        "status": "enabled",
        "version count": 0,
        "version tag": "0",
        "error action": "",
        "block login": true,
        "enable version": false,
        "mount_prefix": "DESKTOP",
        "defer create": true,
        "size mb": 0,
        "template version": "4.0.0",
        "busy": false,
        "state": "Moving",
        "volume guid": "volumeguid-8-volumeguid",
        "datastore name": "SSD Disk Array RAID8",
        "machine_manager host": "0.0.0.0",
        "machine manager type": "Machine Manager",
        "path": "appvolumes/writable",
        "filename": "snapvolumes test user 15.vmdk",
        "file location": "[SSD Disk Array RAID8] appvolumes/writable/snapv
olumes test user 15.vmdk",
        "type": "DataDisk",
        "display type": "Writable Volume",
        "files count": 1,
        "template file name": "[SSD Disk Array RAID8] appvolumes/writabl
e templates/template uia only persistent.vmdk",
        "protected": true,
        "free mb": 0,
        "total mb": 0,
        "percent available": "Unknown",
        "can expand": true,
        "datastore host": "null",
        "primordial os id": 15,
        "primordial os name": "Windows 8.1 (x64)",
        "oses": [
            "id": 0,
```

```
"name": "Windows 8.1 (x64)"
       1
      }
    ],
    "success": [
      {
        "id": 0,
        "name": "SNAPVOLUMES\test user",
        "name_html": "SNAPVOLUMES\test_user",
        "title": "SNAPVOLUMES\test user",
        "title html": "SNAPVOLUMES\test_user",
       "owner": "<a href=\\\"/directory#/Users/2\\\" title=\\\"test use
r\\\">TESTDOMAIN\\\test user</a>",
       "link": "/directory#/Users/2",
        "owner id": 3,
        "owner name": "TestUser",
        "owner type": "User",
        "owner upn": "SNAPVOLUMES\test user",
        "owner upn html": "SNAPVOLUMES\test user",
        "owner object guid": "8da04bfa-bbbe-45c3-9cbf-2d3d03897b84",
        "description": "My writable volume",
        "created at": "2021-12-03 13:10:13 -0800",
        "created at human": "Dec 03 2021",
        "updated at": "2021-12-03 13:10:13 -0800",
        "updated at human": "Dec 03 2021",
        "mounted at": "2021-12-03 13:10:13 -0800",
        "mounted at human": "Dec 03 2021",
        "mounted on": "Machine <DESKTOP-VM123> (#{1234567812345678})",
        "mount count": 0,
        "attached": "Attached",
        "status": "enabled",
        "version count": 0,
        "version tag": "0",
        "error action": "",
        "block login": true,
        "enable_version": false,
        "mount prefix": "DESKTOP",
        "defer create": true,
        "size mb": 0,
        "template version": "4.0.0",
        "busy": false,
        "state": "Moving",
        "volume guid": "volumeguid-8-volumeguid",
        "datastore name": "SSD Disk Array RAID8",
        "machine manager host": "0.0.0.0",
        "machine manager type": "Machine Manager",
        "path": "appvolumes/writable",
        "filename": "snapvolumes test user 15.vmdk",
       "file location": "[SSD Disk Array RAID8] appvolumes/writable/snapv
olumes test user 15.vmdk",
       "type": "DataDisk",
        "display type": "Writable Volume",
        "files count": 1,
        "template file name": "[SSD Disk Array RAID8] appvolumes/writabl
e templates/template uia only persistent.vmdk",
        "protected": true,
        "free mb": 0,
```

```
"total mb": 0,
        "percent available": "Unknown",
        "can expand": true,
        "datastore host": "null",
        "primordial os id": 15,
        "primordial os name": "Windows 8.1 (x64)",
        "oses": [
            "id": 0,
            "name": "Windows 8.1 (x64)"
        ]
      }
    ],
    "error": [
      {
        "id": 0,
        "name": "SNAPVOLUMES\test user",
        "name html": "SNAPVOLUMES\test user",
        "title": "SNAPVOLUMES\test user",
        "title html": "SNAPVOLUMES\test_user",
        "owner": "<a href=\\\"/directory#/Users/2\\\" title=\\\"test use
r\\\">TESTDOMAIN\\\test user</a>",
        "link": "/directory#/Users/2",
        "owner id": 3,
        "owner name": "TestUser",
        "owner type": "User",
        "owner upn": "SNAPVOLUMES\test user",
        "owner upn html": "SNAPVOLUMES\test user",
        "owner_object_guid": "8da04bfa-bbbe-45c3-9cbf-2d3d03897b84",
        "description": "My writable volume",
        "created at": "2021-12-03 13:10:13 -0800",
        "created at human": "Dec 03 2021",
        "updated at": "2021-12-03 13:10:13 -0800",
        "updated at human": "Dec 03 2021",
        "mounted at": "2021-12-03 13:10:13 -0800",
        "mounted at human": "Dec 03 2021",
        "mounted on": "Machine <DESKTOP-VM123> (#{1234567812345678})",
        "mount count": 0,
        "attached": "Attached",
        "status": "enabled",
        "version count": 0,
        "version tag": "0",
        "error action": "",
        "block login": true,
        "enable_version": false,
        "mount prefix": "DESKTOP",
        "defer create": true,
        "size mb": 0,
        "template version": "4.0.0",
        "busy": false,
        "state": "Moving",
        "volume guid": "volumeguid-8-volumeguid",
        "datastore name": "SSD Disk Array RAID8",
        "machine manager host": "0.0.0.0",
        "machine manager type": "Machine Manager",
        "path": "appvolumes/writable",
        "filename": "snapvolumes test user 15.vmdk",
```

```
"file location": "[SSD Disk Array RAID8] appvolumes/writable/snapv
olumes test user 15.vmdk",
        "type": "DataDisk",
        "display type": "Writable Volume",
        "files count": 1,
        "template file name": "[SSD Disk Array RAID8] appvolumes/writabl
e templates/template uia only persistent.vmdk",
        "protected": true,
        "free mb": 0,
        "total mb": 0,
        "percent available": "Unknown",
        "can expand": true,
        "datastore host": "null",
        "primordial os id": 15,
        "primordial os name": "Windows 8.1 (x64)",
        "oses": [
            "id": 0,
            "name": "Windows 8.1 (x64)"
        1
      }
    ],
    "scheduled": [
      {
        "id": 0,
        "name": "SNAPVOLUMES\test user",
        "name html": "SNAPVOLUMES\test user",
        "title": "SNAPVOLUMES\test user",
        "title html": "SNAPVOLUMES\test user",
        "owner\overline{}: "<a href=\\\"/director\\\"/users/2\\\" title=\\\"test use
r\\\">TESTDOMAIN\\\test user</a>",
        "link": "/directory#/Users/2",
        "owner id": 3,
        "owner name": "TestUser",
        "owner type": "User",
        "owner upn": "SNAPVOLUMES\test user",
        "owner upn html": "SNAPVOLUMES\test user",
        "owner object guid": "8da04bfa-bbbe-45c3-9cbf-2d3d03897b84",
        "description": "My writable volume",
        "created at": "2021-12-03 13:10:13 -0800",
        "created at human": "Dec 03 2021",
        "updated at": "2021-12-03 13:10:13 -0800",
        "updated at human": "Dec 03 2021",
        "mounted at": "2021-12-03 13:10:13 -0800",
        "mounted at human": "Dec 03 2021",
        "mounted on": "Machine <DESKTOP-VM123> (#{1234567812345678})",
        "mount count": 0,
        "attached": "Attached",
        "status": "enabled",
        "version count": 0,
        "version tag": "0",
        "error action": "",
        "block login": true,
        "enable version": false,
        "mount_prefix": "DESKTOP",
        "defer create": true,
        "size mb": 0,
```

```
"template version": "4.0.0",
        "busy": false,
        "state": "Moving",
        "volume guid": "volumeguid-8-volumeguid",
        "datastore name": "SSD Disk Array RAID8",
        "machine manager host": "0.0.0.0",
        "machine manager type": "Machine Manager",
        "path": "appvolumes/writable",
        "filename": "snapvolumes_test_user_15.vmdk",
        "file location": "[SSD Disk Array RAID8] appvolumes/writable/snapv
olumes test user 15.vmdk",
        "type": "DataDisk",
        "display type": "Writable Volume",
        "files count": 1,
        "template file name": "[SSD Disk Array RAID8] appvolumes/writabl
e templates/template uia only persistent.vmdk",
        "protected": true,
        "free mb": 0,
        "total mb": 0,
        "percent available": "Unknown",
        "can expand": true,
        "datastore host": "null",
        "primordial_os_id": 15,
        "primordial os name": "Windows 8.1 (x64)",
        "oses": [
            "id": 0,
            "name": "Windows 8.1 (x64)"
      }
    ]
  }
```

For example: If the operation has errors or the volume is missing, you receive a status 200.

```
"error": "Unable to delete 1 volume",
     "id": 0,
      "name": "SNAPVOLUMES\test user",
      "name html": "string",
      "title": "SNAPVOLUMES\test user",
      "title html": "string",
     "owner": "string",
      "link": "/directory#/Users/2",
      "owner name": "TestUser",
      "owner type": "User",
      "owner upn": "SNAPVOLUMES\test user",
      "owner upn html": "SNAPVOLUMES\test user",
      "description": "string",
      "created at": "string",
      "created at human": "string",
      "updated at": "string",
      "updated at human": "string",
      "mounted at": "string",
```

```
"mounted at human": "string",
    "mounted on": "Machine <DESKTOP-VM123> (#{1234567812345678})",
    "attached": "Attached",
    "status": "missing",
    "version count": 0,
    "version tag": 0,
    "block login": true,
    "enable version": true,
    "mount prefix": "string",
    "defer create": true,
    "size mb": 0,
    "template version": "string",
    "datastore name": "SSD Disk Array RAID8",
    "machine manager host": "string",
    "machine manager type": "string",
    "path": "cloudvolumes/writable",
    "filename": "snapvolumes_test_user_15.vmdk",
    "file location": "string",
    "mount count": 0,
    "type": "string",
    "display type": "string",
    "template file name": "string",
    "protected": true,
    "free mb": 0,
    "total mb": 0,
    "percent available": "string",
    "can expand": true,
    "storage_group": "string",
    "storage group members": "string",
    "primordial_os_id": 0,
    "primordial os name": "string",
    "oses": [
      { }
    1
  }
],
```

For example: If the operation has errors or the volume is missing, you receive a status 200.

```
"error": "Unable to delete 1 volume",

{
    "id": 0,
    "name": "SNAPVOLUMES\test_user",
    "name_html": "string",
    "title": "SNAPVOLUMES\test_user",
    "title_html": "string",
    "owner": "string",
    "link": "/directory#/Users/2",
    "owner_name": "TestUser",
    "owner_type": "User",
    "owner_upn": "SNAPVOLUMES\test_user",
    "owner_upn html": "SNAPVOLUMES\test_user",
    "description": "string",
    "created_at": "string",
    "created_at_human": "string",
```

```
"updated at": "string",
    "updated at human": "string",
    "mounted at": "string",
    "mounted at human": "string",
    "mounted on": "Machine <DESKTOP-VM123> (#{1234567812345678})",
    "attached": "Attached",
    "status": "missing",
    "version count": 0,
    "version tag": 0,
    "block_login": true,
    "enable version": true,
    "mount prefix": "string",
    "defer create": true,
    "size mb": 0,
    "template version": "string",
    "datastore name": "SSD Disk Array RAID8",
    "machine manager host": "string",
    "machine manager type": "string",
    "path": "cloudvolumes/writable",
    "filename": "snapvolumes test user 15.vmdk",
    "file location": "string",
    "mount count": 0,
    "type": "string",
    "display type": "string",
    "template file name": "string",
    "protected": true,
    "free mb": 0,
    "total mb": 0,
    "percent available": "string",
    "can expand": true,
    "storage group": "string",
    "storage group members": "string",
    "primordial os id": 0,
    "primordial os name": "string",
    "oses": [
      { }
   1
],
```

For example: When a Writable Volume deletion is scheduled:

```
"description": "My writable volume", "created at": "2016-11-23 13:1
0:13 -0800",
      "created at human":
      "Nov 23 \overline{2016}",
       "updated at": "2016-11-23 13:10:13 -0800",
      "updated at human": "Nov 23 2016",
      "mounted at": "2016-11-23 13:10:13 -0800",
      "mounted at human": "Nov 23 2016",
     "mounted on": "Machine <DESKTOP-VM123>
      (#{1234567812345678})",
      "mount count": 0,
      "attached": "Attached",
      "status": "enabled",
      "version count": 0,
      "version tag": 0,
      "block login": true,
       "error action": "",
       "enable version": false,
      "mount prefix": "DESKTOP",
      "defer create": true,
      "size mb": 0,
      "template version": "2.10.0.709",
      "datastore name": "SSD Disk Array RAID8",
      "machine manager host": "0.0.0.0",
      "machine manager type": "Machine Manager",
      "path": "cloudvolumes/writable",
      "filename": "snapvolumes test user 15.vmdk",
      "file location": "[SSD Disk Array RAID8]
      cloudvolumes/writable/snapvolumes test user 15.vmdk",
      "template file name": "[SSD Disk Array RAID8] cloudvolumes/writabl
e templates/template uia only persistent.vmdk",
      "protected": true,
      "free mb": 0,
      "total mb": 0,
      "percent available": "Unknown",
       "can expand": true,
      "storage group":
      "Storage group 1",
      "storage group members": 2,
      "primordial os id": 15,
      "primordial os name": "Windows 8.1 (x64)",
      "oses": [
      "id": 0,
      "name": "Windows 8.1 (x64)"
    ],
   "busy": false,
   "state": "Moving"
 }
]
}
 }
```

For example: If a Writable Volume does not exist, then an HTTP error code 404 is returned with an error message: