

Ansible Modules for Dell EMC Isilon

Version 1.0

Product Guide

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CHAPTER 1

Introduction

Introduces the Ansible modules for Isilon.

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Product overview

Ansible Modules for Dell EMC Isilon automate configuration and deployment.

The Ansible Modules for Dell EMC Isilon provide management capabilities.

The following Ansible modules are available:

- [Gather facts](#)
- [User](#)
- [Group](#)
- [Access zone](#)
- [Filesystem](#)
- [NFS export](#)
- [SMB \(CIFS\) share](#)
- [Snapshot](#)
- [Snapshot schedule](#)

Each module performs actions, such as getting, modifying, creating, deleting, and so on. The gather facts module is intended to gather high-level facts about the array.

CHAPTER 2

Installation

Instructions on how to install the SDK and the Ansible modules.

- Supported platforms:
 - Isilon clusters with OneFS version 8.0 or above
 - Ansible 2.7 or above
- Supported (client) operating systems:
 - Red Hat Enterprise Linux 7.6

Prerequisites

Python library for Isilon (version 8.1.1) should be pre-installed on the client.

- [Install the SDK](#).....6
- [Install Ansible for Isilon modules](#)..... 6

Install the SDK

Instructions for installing the SDK.

Before you begin

Install the Python SDK named `isi-sdk-8-1-1`. The SDK can be installed using PIP, which is the installer package for Python.

About this task

The Python library for Isilon is available for download:

<https://pypi.org/project/isi-sdk-8-1-1/>

All modules check for the library. If it is not present, a message appears. The same version works for all OneFS versions from 8.0 through 8.2.2.

Procedure

1. On the command line, enter: `pip install isi-sdk-8-1-1`

Install Ansible for Isilon modules

Instructions on how to install Ansible for Isilon modules.

Before you begin

About this task

Procedure

1. Create the `dell EMC` folder in one of the following folders if it is not available:
 - For Python 2.7 `/usr/lib/python2.7/site-packages/ansible/modules/storage`
 - For Python 3.5 `/usr/lib/python3.5/site-packages/ansible/modules/storage`
2. Copy the Ansible modules to the appropriate locations in the virtual machine.
 - a. Copy `dell EMC_utils.py` from the `/utils` directory to one of the following locations:
 - For Python 2.7 `/usr/lib/python2.7/site-packages/ansible/module_utils/`
 - For Python 3.5 `/usr/lib/python3.5/site-packages/ansible/module_utils/`
 - b. Copy all the module python files from the `/library` directory to one of the following:
 - For Python 2.7 `/usr/lib/python2.7/site-packages/ansible/modules/storage/dell EMC/`
 - For Python 3.5 `/usr/lib/python3.5/site-packages/ansible/modules/storage/dell EMC/`
 - c. Copy the `dell EMC.py` from the `/doc_fragments` directory to one of the following:
 - For Python 2.7 `/usr/lib/python2.7/site-packages/ansible/plugins/doc_fragments/`

- For Python 3.5 `/usr/lib/python3.5/site-packages/ansible/plugins/doc_fragments/`

Results

 **Note:** The path may vary depending on the Python library version and the operating system and Ansible version.

CHAPTER 3

Ansible Modules for Isilon

This chapter contains the following topics:

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Module overview

The Ansible modules use common access parameters.

| Parameter name | Explanation | Mandatory/Optional | Default | Comments |
|----------------|---|--------------------|---------|---|
| onefs_host | IP address or FQDN of the Isilon cluster | Mandatory | | |
| port_no | Port number | Optional | 8080 | |
| api_user | Username for accessing the REST API | Mandatory | | Credentials can be encrypted using Ansible vault. Users must have admin access to the access zone on which they want to operate. |
| api_password | Password for accessing the REST API | Mandatory | | |
| verify_ssl | Boolean parameter to indicate insecure access | Mandatory | | |

Gather facts module

The gather facts module is used to gather high-level facts about the array.

This module collects information about the Isilon cluster.

The gather facts module supports the following functions:

- List high-level attributes of the Isilon cluster
- List all the access zones in an Isilon cluster
- List the nodes in an Isilon cluster
- List the authentication providers for an access zone
- List the users and groups of an access zone

Get attributes, access zones, and nodes of the Isilon cluster

The user can get attributes, access zones, and nodes of the Isilon cluster by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Get attributes, access_zones and nodes of the Isilon cluster
  dellemc_isilon_gatherfacts:
    onefs_host: "{{onefs_host}}"
    port: "{{isilonport}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    gather_subset:
      - attributes
```

- access_zones
- nodes

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Get the list of authentication providers, users, and groups for an access zone

The user can get a list of authentication providers, users, and groups for an access zone of the Isilon cluster by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Get list of authentication providers, users and groups for an access
  zone of the Isilon cluster
  dellemc_isilon_gatherfacts:
    onefs_host: "{{onefs_host}}"
    port: "{{isilonport}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    access_zone: "{{access_zone}}"
    gather_subset:
      - providers
      - users
      - groups
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Gather facts parameters

The following table lists the parameters that must be set before the user runs the playbook for the gather facts module:

Table 1 Parameters

| Parameter name | Explanation | Mandatory /Optional | Default |
|----------------|---|---------------------|---------|
| access_zone | The base access zone | Optional | System |
| gather_subset | <ul style="list-style-type: none"> List of string variables to specify the Isilon entities for which information is required List of all Isilon entities the module supports <ul style="list-style-type: none"> attributes access_zones nodes providers users groups | Mandatory | |

User module

The user module is used for managing users on the Isilon.

The user module supports the following functionality:

- Creation of a local user.
- Modification to a local user.
- Addition of roles to users of all provider types in system access zone.
- Removal of roles from users of all provider types in system access zone.
- Getting details of the local, ads, ldap, and file users. To get the details of the user authenticated by active directories `user_name` should include the domain name of the AD server in the specified format "DOMAIN-NAME\\user_name" or 'DOMAIN-NAME\\user_name'.
- Deletion of a local user.

Create a user with a role

A user can be created with an assigned role for the system access zone by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Create a user with a role
  dellemc_isilon_user:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    user_name: "test-user"
    password: "asdf"
    state: "present"
    role_name: "AuditAdmin"
    role_state: "present-for-user"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Create a user in a non-system access zone with an enabled account

A user can be created in a non-system access zone with an enabled account by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Create a user with enabled account
  dellemc_isilon_user:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    access_zone: "sample-zone"
    user_name: "test-user"
    password: "asdf"
```

```
enabled: "True"
state: "present"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Get the details of a user

The details of the user can be fetched by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Get details of a user
  dellemc_isilon_user:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    access_zone: "sample-zone"
    user_name: "test-user"
    state: "present"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Remove a role assigned to a user

A role that is assigned to a user can be removed by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Remove a role from an existing user
  dellemc_isilon_user:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    user_name: "test-user"
    state: "present"
    role_name: "AuditAdmin"
    role_state: "absent-for-user"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Update user details

User details can be modified using `user_id` or `user_name` by running the appropriate playbook.

This is an example of the syntax of a playbook for adding the email and full name to the existing user using `user_id`.

```
- name: Update user details
  dellemc_isilon_user:
    onefs_host: "{{onefs_host}}"
```

```

api_user: "{{api_user}}"
api_password: "{{api_password}}"
verify_ssl: "{{verify_ssl}}"
user_id: "2002"
email: "test-user@dell.com"
full_name: "Sample Test User"
state: "present"

```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Add a role to a user

A role can be added to a user of the system access zone by listing either `user_name` or `user_id`.

This is an example syntax of a playbook where a role AuditAdmin is added to a user using a `user_name`.

```

- name: Add role to existing user
  dellemc_isilon_user:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    user_name: "test-user"
    state: "present"
    role_name: "AuditAdmin"
    role_state: "present-for-user"

```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Delete a user

A user can be deleted by mentioning the state as absent for a given `user_id` or `user_name`.

This is an example of the syntax of a playbook where a user is deleted using `user_name`.

```

- name: Delete a user
  dellemc_isilon_user:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    access_zone: "sample-zone"
    user_name: "test-user"
    state: "absent"

```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

User module parameters

The following table lists the parameters that must be set before the user runs the playbook for the user module:

Table 2 Parameters

| Parameter | Explanation | Mandatory /Optional | Default | Comments |
|----------------------------|---|---------------------|---------|---|
| <code>user_name</code> | The name of the user account | Optional | | The name of the user account is required for user creation. For all other operations, either <code>user_name</code> or <code>user_id</code> is required. |
| <code>user_id</code> | The ID of the user account | Optional | | The <code>user_id</code> is autogenerated during creation. For all other operations, either <code>user_id</code> or <code>user_name</code> is required. |
| <code>password</code> | The password of the user account | Optional | | <ul style="list-style-type: none"> Mandatory for creation of user. If given for any other operation, it is ignored. |
| <code>access_zone</code> | The zone in which the user account exists | Optional | system | <ul style="list-style-type: none"> For all operations, <code>access_zone</code> is optional. If it is not mentioned, the operation is performed in the system access zone. |
| <code>provider_type</code> | The authentication type that is configured to allow users to authenticate | Optional | local | <ul style="list-style-type: none"> The <code>provider_type</code> specifies the authentication provider to authenticate the user. Supported authentication providers are ldap, ads, local, and file. The user creation, modification, and deletion are allowed only if the provider is local. The details of users who are authenticated by any provider type can be fetched. If it is not mentioned, then the operation is performed assuming the user is authenticated locally. |

Table 2 Parameters (continued)

| Parameter | Explanation | Mandatory /Optional | Default | Comments |
|-----------------------------|---|---------------------|---------|--|
| <code>home_directory</code> | The directory which is treated as home for the user | Optional | | <ul style="list-style-type: none"> Used in the creation and modification of the user account details. If not given during creation, <code>[access_zone base directory]/home/name</code> is assigned as home directory. |
| <code>primary_group</code> | The group to which the user account belongs. | Optional | | Used in the creation and modification of the user account details |
| <code>enabled</code> | Enables the users to the access rights | Optional | | <ul style="list-style-type: none"> Optional parameter for creation and modification. By default, Ansible creates a user with enabled as False. |
| <code>full_name</code> | The full name of the user | Optional | | Can be given during creating and updating the user account. |
| <code>email</code> | The email address of the user | Optional | | Can be given during creating and updating the user account. |
| <code>shell</code> | Specifies the path to the shell for the user | Optional | | Can be given during creating and updating the user account. |
| <code>state</code> | Mentions the function that is performed | Mandatory | | <ul style="list-style-type: none"> During creation and getting the user, the state is present. During deletion, the state is absent. |
| <code>role_name</code> | The name of the role that the user can perform | Optional | | <ul style="list-style-type: none"> While creating a user, it is optional. It is mandatory for adding and removing a user from a role. |
| <code>role_state</code> | State that mentions adding or removing the user from a role | Optional | | <ul style="list-style-type: none"> During create and update the field is optional. It is mandatory for adding and removing a user from a role. |

Table 2 Parameters (continued)

| Parameter | Explanation | Mandatory /Optional | Default | Comments |
|-----------|-------------|---------------------|---------|---|
| | | | | <ul style="list-style-type: none"> For adding a user to role, it is present-for-user. For removing a user from a role, it is absent-for-user. |

Group module

The group module manages group permissions and memberships in Isilon.

The creation, deletion, and modification of a group is allowed only for the local provider type.

The group details of any provider type can be fetched.

Only local users can be added and removed from the local groups.

The group module has the following functions:

- Create a local group
- Modify a local group
- Add local users to a local group
- Remove local users from a local group
- Get the details of a group
- Delete a local group

Create a local group in a system access zone

The user can create a local group in a system access zone by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Create a Group
  dellemc_isilon_group:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    access_zone: "{{access_zone}}"
    provider_type: "{{provider_type}}"
    group_name: "{{group_name}}"
    state: "present"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Create a local group in non-system access zone

The user can create a local group in a non-system access zone with a user member added to the group by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Create Group with Users
  dellemc_isilon_group:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    provider_type: "local"
    access_zone: "sample-zone"
    group_name: "{{group_name}}"
    users:
      - user_id: "2012"
      - user_name: "test_user_1"
      - user_id: "2014"
    user_state: "present-in-group"
    state: "present"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Get the details of a group

The user can get the details of the group using `group_name` or `group_id` by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Get Details of the Group using Group Id
  dellemc_isilon_group:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    provider_type: "{{provider_type}}"
    access_zone: "{{access_zone}}"
    group_id: "{{group_id}}"
    state: "present"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Add a user to a local group

The user can be added to the local group using the `user_name` or `user_id` by running the appropriate playbook.

This is an example of the syntax of a playbook where multiple users are added to a group:

```
- name: Add users to a Group.
  dellemc_isilon_group:
```

```

onefs_host: "{{onefs_host}}"
api_user: "{{api_user}}"
api_password: "{{api_password}}"
verify_ssl: "{{verify_ssl}}"
provider_type: "{{provider_type}}"
access_zone: "{{access_zone}}"
group_id: "{{group_id}}"
users:
  - user_id: "2012"
  - user_name: "test_user_1"
  - user_id: "2014"
user_state: "present-in-group"
state: "present"

```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Remove a user from a group

The user can be removed from the local group using the `user_name` with `user_id` by running the appropriate playbook.

This is an example of the syntax of a playbook for removing multiple users from a group:

```

- name: Remove users from a Group.
  dellemc_isilon_group:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    provider_type: "{{provider_type}}"
    access_zone: "{{access_zone}}"
    group_id: "{{group_id}}"
    users:
      - user_id: "2012"
      - user_name: "test_user_1"
      - user_id: "2014"
    user_state: "absent-in-group"
    state: "present"

```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Delete a group

The user can delete a local group using the `group-name` or `group-id` by running the appropriate playbook.

This is an example of the syntax of a playbook where a group is delete using `group_name`:

```

- name: Delete the Group using Group Name
  dellemc_isilon_group:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    provider_type: "{{provider_type}}"
    access_zone: "{{access_zone}}"

```

```
group_name: "{{group_name}}"
state: "absent"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Group module parameters

The following table lists the parameters that must be set before the user runs the playbook for the Group module:

Table 3 Parameters

| Parameter name | Explanation | Mandatory /Optional | Default | Comments |
|----------------|---|---------------------|---------|---|
| group_name | The name of the group | Optional | | The group name is required for creation of the group. For all other operations, either <code>group_name</code> or <code>group_id</code> is required. |
| group_id | The ID of the group | Optional | | In the creation of the group, <code>group_id</code> is not required (auto-generated). For all other operations, either <code>group_name</code> or <code>group_id</code> is required. |
| users | Multiple users can be specified either by the <code>user_name</code> or by the <code>user_id</code> | Optional | | In the users, multiple users can be mentioned using the <code>user_name</code> or <code>user_id</code> . The users section can be mentioned during creating, adding, and removing users from the group. <ul style="list-style-type: none"> • <code>users</code> • <code>user_name: sample_user</code> • <code>user_id: 2007</code> |
| access_zone | The zone in which the group exists | Optional | system | The zone in which the group exists. At the time of creation, it acts as a parameter. For all other operations, it acts as a filter. |
| provider_type | The authentication type for the group | Optional | local | At the time of creation, <code>provider_type</code> acts as a parameter. For all other operations, it acts as a filter. |

Table 3 Parameters (continued)

| Parameter name | Explanation | Mandatory /Optional | Default | Comments |
|-------------------------|--|---------------------|---------|---|
| <code>user_state</code> | The state of the users in the group Choices: [present-in-group, absent-in-group] | Optional | | To add the users to the group, the <code>user_state</code> is present-in-group. To remove the users from the group the <code>user_state</code> is absent-in-group. |
| <code>state</code> | The state of the group in the Isilon system choices: [present, absent] | Mandatory | | The state is present for all the operations except deletion. For deletion, the state is absent. |

Access zone module

The access zone module allows the user to get details and modify the settings of an access zone. Creation and deletion of access zones is not allowed through Ansible.

The access zone module has the following functions:

- Get access zone details.
- Modify the default SMB settings of an access zone.
- Modify the default NFS settings of an access zone.

Get access zone details

The user can get access zone details by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Get details of access zone including smb and nfs settings
  dellemc_isilon_accesszone:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    az_name: "{{access zone}}"
    state: "present"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Modify the default SMB settings of an access zone

The user can modify the default SMB settings of an access zone by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify smb settings of access zone
  dellemc_isilon_accesszone:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    az_name: "{{access_zone}}"
    state: "present"
    smb:
      create_permissions: 'default acl'
      directory_create_mask: '777'
      directory_create_mode: '700'
      file_create_mask: '700'
      file_create_mode: '100'
      access_based_enumeration: true
      access_based_enumeration_root_only: false
      ntfs_acl_support: true
      oplocks: true
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Modify the default NFS settings of an access zone

The user can modify the default NFS settings of an access zone by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify nfs settings of access zone
  dellemc_isilon_accesszone:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    az_name: "{{access_zone}}"
    state: "present"
    nfs:
      commit_asynchronous: false
      nfsv4_allow_numeric_ids: false
      nfsv4_domain: 'localhost'
      nfsv4_no_domain: false
      nfsv4_no_domain_uids: false
      nfsv4_no_names: false
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Access zone module parameters

The following table lists the parameters that must be set before the user runs the playbook for the access zone module:

Table 4 Parameters

| Parameter name | Explanation | Mandatory/Optional | Default | Comments |
|----------------|---|--------------------|---------|--|
| az_name | Name of the access zone | Mandatory | | Not case sensitive |
| state | State of the access zone choices: [absent, present] | Mandatory | | |
| smb | Default SMB settings of the access zone | Optional | | Sub-options to include: <ul style="list-style-type: none"> • <code>create_permissions</code> (choices: default acl, Inherit mode bits, Use create mask and mode, default value: default acl) • <code>directory_create_mask</code> (Type: str, Default Value=700 (octal)) • <code>directory_create_mode</code> (Type:str, Default Value=None) • <code>file_create_mask</code> (Type:str, Default Value=700 (octal)) • <code>file_create_mode</code> (Type:str, Default Value='100' (octal)) • <code>access_based_enumeration</code> (Type:bool, Default Value:false) • <code>access_based_enumeration_root_only</code> (Type:bool, Default Value:false) • <code>ntfs_acl_support</code> (Type:bool, Default Value:true) • <code>oplocks</code> (Type:bool, Default Value:true) |

Table 4 Parameters (continued)

| Parameter name | Explanation | Mandatory/Optional | Default | Comments |
|----------------|---|--------------------|---------|--|
| nfs | Default NFS settings of the access zone | Optional | | Sub-options to include: <ul style="list-style-type: none"> • <code>commit_asynchronous</code> (Type:bool, Default Value=false) • <code>nfsv4_allow_numeric_ids</code> (Type:bool, Default Value=true) • <code>nfsv4_domain</code> (Type:str, Default Value=localhost) • <code>nfsv4_no_domain</code> (Type:bool, Default Value=false) • <code>nfsv4_no_domain_uids</code> (Type:bool, Default Value=true) • <code>nfsv4_no_names</code> (Type:bool, Default Value=false) |

Filesystem module

The user can create, delete, modify, and get details of a filesystem.

The owner and group can be local, file, ldap, or ads.

The quota can be increased as well as reduced. Once a quota has been assigned to a filesystem, it can be removed by specifying its state as absent.

The filesystem module has the following functions:

- Create filesystem with quota in given access zone.
- Create filesystem without quota.
- Get filesystem details.
- Modify filesystem.
- Delete the filesystem.

Create filesystem with quota in given access zone

The user can create a filesystem with quota in a given access zone by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Create a filesystem with Quota and ACL in POSIX mode
```

```

dell EMC_isilon_filesystem:
  onefs_host: "{{onefs_host}}"
  verify_ssl: "{{verify_ssl}}"
  api_user: "{{api_user}}"
  api_password: "{{api_password}}"
  path: "{{path_ansible}}"
  access_zone: "{{access_zone}}"
  owner:
    name: 'ldap_test_user_1'
    provider_type: 'ldap'
  group:
    name: 'sample_ldap_group_2'
    provider_type: 'ldap'
  quota:
    include_snap_data: False
    include_data_protection_overhead: False
    soft_limit_size: 5
    hard_limit_size: 10
    cap_unit: "GB"
    quota_state: "present"
  access_control: "{{access_control}}"
  recursive: "{{recursive}}"
  state: "{{state_present}}"

```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Create filesystem without quota

The user can create a filesystem without quota in a default system access zone by running the appropriate playbook.

This is an example of the syntax of a playbook:

```

- name: Create a filesystem in System Access Zone
  dell EMC_isilon_filesystem:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    path: "{{new_path_system}}"
    owner:
      name: 'ldap_test_user_1'
      provider_type: 'ldap'
    group:
      name: 'sample_ldap_group_2'
      provider_type: 'ldap'
    access_control: "{{access_control}}"
    recursive: "{{recursive}}"
    state: "{{state_present}}"

```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Get filesystem details

The user can get filesystem details by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Get filesystem details
  dellemc_isilon_filesystem:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    path: "{{path}}"
    state: "{{state_present}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Modify filesystem hard quota

The user can modify a filesystem hard quota by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify Filesystem Hard Quota
  dellemc_isilon_filesystem:
    onefs_host: "{{isilonhost}}"
    port: "{{isilonport}}"
    verify_ssl: "{{verify_ssl}}"
    username: "{{user}}"
    password: "{{password}}"
    path: "{{path}}"
    access_zone: "{{access_zone}}"
    quota:
      hard_limit_size: 15
      cap_unit: "GB"
      quota_state: "present"
    state: "{{state_present}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Modify filesystem owner, group, and ACL

The user can modify the filesystem owner, group, and ACL by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify Filesystem Owner, Group and ACL
  dellemc_isilon_filesystem:
    onefs_host: "{{isilonhost}}"
    port: "{{isilonport}}"
    verify_ssl: "{{verify_ssl}}"
    username: "{{user}}"
    password: "{{password}}"
    path: "{{path}}"
    access_zone: "{{access_zone}}"
```

```

owner:
  name: 'ansible_user'
  provider_type: 'ldap'
group:
  name: 'ansible_group'
  provider_type: 'ldap'
access_control: "{{new_access_control}}"
state: "{{state_present}}"

```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Delete the filesystem

The user can delete the filesystem by running the appropriate playbook.

This is an example of the syntax of a playbook:

```

- name: Delete a filesystem
  dellemc_isilon_filesystem:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    path: "{{path_system}}"
    state: "{{state_absent}}"

```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Filesystem parameters

The following table lists the parameters that must be set before the user runs the playbook for the filesystem module:

Table 5 Parameters

| Parameter name | Explanation | Mandatory /Optional | Default | Comments |
|----------------|----------------------|---------------------|---------|--|
| path | The directory path | Mandatory | Nil | For non-system access zones, this path is a relative path from the base of the access zone. |
| access_zone | The base access zone | Optional | Nil | If no access zone is specified, the filesystem is in the system access zone. |
| owner | User permissions | Optional | Nil | Name is mandatory. Provider_type is optional with a default value of local. Owner is mandatory only for creating a filesystem. |

Table 5 Parameters (continued)

| Parameter name | Explanation | Mandatory /Optional | Default | Comments |
|----------------|--|---------------------|---------|--|
| group | Group permissions | Optional | Nil | Name is mandatory. Provider_type is optional with a default value of local. |
| access_control | The ACL value for the directory | Optional | Nil | User can either provide input, such as private_read, private, public_read, public_read_write, public or in POSIX format (that is, 0700). |
| recursive | Creates intermediate folders recursively when set to true. | Optional | Nil | If recursive is false and an intermediate path is missing, the error is propagated back from Isilon. |
| quota | | Optional | Nil | <ul style="list-style-type: none"> The following sub-options are supported: <ul style="list-style-type: none"> include_snap_data (boolean) include_data_protection_overhead (boolean) advisory_limit_size (int) soft_limit_size (int) hard_limit_size (int) cap_unit (MB, GB, or TB) quota_state (present or absent) The default grace period is 7 days. Modification of grace period is not supported. Modification of include_snap_data is not supported. The default capacity unit is GB. |

Table 5 Parameters (continued)

| Parameter name | Explanation | Mandatory /Optional | Default | Comments |
|-----------------------------|---|---------------------|---------|---|
| <code>list_snapshots</code> | If set to True, filesystem snapshot details are returned. | Optional | Nil | |
| <code>state</code> | The state of the filesystem choices: [present, absent] | Mandatory | Nil | The state is present for all the operations except deletion. For deletion, the state is absent. |

NFS export

Managing NFS exports on an Isilon system includes creating NFS export for a directory in an access zone, adding or removing clients, modifying different parameters of the export and deleting export.

The NFS export module has the following functions:

- Create an NFS export.
- Get NFS export details.
- Assign/remove access of clients (clients, root-clients, read-write clients, and read-only clients).
- Set parameters, such as `read_only` flag and `sub_directories_mountable` flag.
- Delete NFS export.

Create an NFS export

The user can create an NFS export by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Create an NFS export
  dellemc_isilon_nfs:
    onefs_host: "{{onefs_host}}"
    api_user: "{{user}}"
    api_password: "{{password}}"
    path: "{{path}}"
    access_zone: {{access_zone}}
    read_write_clients:
      - client1
    sub_directories_mountable: True
    client_state: 'present-in-export'
    description: 'description'
    state: 'present'
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Get NFS export details

The user can get NFS export details by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Get NFS Export details
  dellemc_isilon_nfs:
    onefs_host: "{{onefs_host}}"
    api_user: "{{user}}"
    api_password: "{{password}}"
    verify_ssl: "{{verify_ssl}}"
    path: "{{path}}"
    access_zone: {{access_zone}}
    state: 'present'
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Add a root client

The user can add a client to NFS export by running the appropriate playbook.

This is an example of the syntax of a playbook for adding a root client.

```
- name: Add a root client
  dellemc_isilon_nfs:
    onefs_host: "{{onefs_host}}"
    api_user: "{{user}}"
    api_password: "{{password}}"
    verify_ssl: "{{verify_ssl}}"
    path: "{{path}}"
    access_zone: {{access_zone}}
    root_clients:
      - {{client4}}
    client_state: 'present-in-export'
    state: 'present'
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Set sub_directories_mountable flag

The user can set `sub_directories_mountable` flag by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Set sub_directories_mountable flag to True
  dellemc_isilon_nfs:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    path: "{{path}}"
    access_zone: {{access_zone}}
```

```
sub_directories_mountable: True
state: 'present'
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Remove a root client

The user can remove a client by running the appropriate playbook.

This is an example of the syntax of a playbook for removing a root client.

```
- name: Remove a root client
  dellemc_isilon_nfs:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    path: "{{path}}"
    access_zone: {{access_zone}}
    root_clients:
      - {{Client4}}
    client_state: 'absent-in-export'
    state: 'present'
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Set read_only flag to False

The user can modify the NFS export in system access zone to read-only by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Set read_only flag to False
  dellemc_isilon_nfs:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    path: "{{path}}"
    access_zone: "{{access_zone}}"
    read_only: False
    state: 'present'
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Modify the description

The user can modify the description by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify description
  dellemc_isilon_nfs:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    path: "{{path}}"
    access_zone: {{access_zone}}
    description: "new description"
    state: 'present'
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Delete NFS export

The user can delete the NFS export by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Delete NFS Export
  dellemc_isilon_nfs:
    onefs_host: "{{onefs_host}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    verify_ssl: "{{verify_ssl}}"
    path: "{{path}}"
    access_zone: "{{access_zone}}"
    state: 'absent'
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

NFS export module parameters

The following table lists the parameters that must be set before the user runs the playbook for the NFS export module:

Table 6 Parameters

| Parameter name | Explanation | Mandatory /Optional | Format | Default | Comments |
|----------------|--|---------------------|--------|---------|--|
| path | Directory path to be exported. For non-system access zones, this | Mandatory | str | | Ansible module only supports one export for a given path. If there multiple exports present with the same path, |

Table 6 Parameters (continued)

| Parameter name | Explanation | Mandatory /Optional | Format | Default | Comments |
|---------------------------------|--|---------------------|-----------|---------|---|
| | path is a relative path from the base of the access zone. The path must exist. The NFS module does not create the path. | | | | operations of such exports fail. |
| <code>access_zone</code> | Specifies the zone in which the export is valid. | Optional | str | system | <zone> is used in the documentation. |
| <code>clients</code> | Specifies the clients to the export. The type of access to clients in this list is determined by the <code>read_only</code> parameter. | Optional | list[str] | | This list can be changed anytime during the lifetime of the NFS export. |
| <code>root_clients</code> | Specifies the clients with root access to the export. | Optional | list[str] | | This list can be changed anytime during the lifetime of the NFS export. |
| <code>read_only_clients</code> | Specifies the clients with read-only access to the export even when the export is read/write. | Optional | list[str] | | This list can be changed anytime during the lifetime of the NFS export. |
| <code>read_write_clients</code> | Specifies the clients with both | Optional | list[str] | | This list can be changed anytime during the lifetime of the NFS export. |

Table 6 Parameters (continued)

| Parameter name | Explanation | Mandatory /Optional | Format | Default | Comments |
|--|---|---|--------|---------|---|
| | read and write access to the export even when the export is set to read-only. | | | | |
| <code>read_only</code> | Specifies whether the export is read-only or read-write. This parameter only has effect on the <code>clients</code> list and not the other three lists. | Optional | bool | | <read_only> is used in the documentation. This setting can be modified any time. If it is not set at the time of creation, the export is of type read/write. |
| <code>sub_directories_mountable</code> | True if all directories under the specified paths are mountable. If not set, sub-directories are not mountable. | Optional | bool | | <all_dirs> is used in the documentation. This setting can be modified any time. If it is not set at the time of creation, the sub-directories are not mountable. |
| <code>state</code> | [present, absent] | Mandatory | str | | |
| <code>client_state</code> | [present-in-export, absent-in-export] | Mandatory when adding or removing clients from the export | | | Define whether the clients can access the NFS export. present-in-export indicates that the clients can access the NFS export. absent-in-export indicates that the client cannot access the NFS export. Required when adding or removing |

Table 6 Parameters (continued)

| Parameter name | Explanation | Mandatory /Optional | Format | Default | Comments |
|----------------|-------------|--------------------------------|--------|---------|---|
| | | | | | access of clients from the export. While removing clients, only the specified clients are removed from the export. Others remain as is. |
| description | | Optional, can be modified too. | str | | Can be modified by passing a new value. |

SMB (CIFS) shares

The SMB shares module allows the user to create, modify, and delete an SMB share.

The SMB shares module has the following functions:

- Create SMB share for a system or non-system access zone.
- Modify various supported attributes of an SMB share.
- Add, remove, or modify permissions for users, groups, and wellknown.
- Get SMB share details.
- Delete an SMB share.

Create an SMB share for a system access zone

The user can create an SMB share for a system access zone by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Create SMB share for system access zone
  dell EMC_isilon_smb:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    share_name: "{{name}}"
    path: "{{system_az_path}}"
    description: "{{description}}"
    permissions:
      - user_name: "{{system_az_user}}"
        permission: "full"
        permission_type: "allow"
      - group_name: "{{system_az_group}}"
        permission: "read"
        permission_type: "allow"
      - wellknown: "everyone"
        permission: "read"
        permission_type: "allow"
    state: "{{state_present}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Create SMB share for non-system access zone

The user can create an SMB share for a non-system access zone by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Create SMB share for non system access zone
  dellemc_isilon_smb:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    share_name: "{{name}}"
    path: "{{non_system_az_path}}"
    access_zone: "{{non_system_access_zone}}"
    description: "{{description}}"
    permissions:
      - user_name: "{{non_system_az_user}}"
        permission: "read"
        permission_type: "allow"
      - group_name: "{{non_system_az_group}}"
        permission: "read"
        permission_type: "allow"
      - wellknown: "everyone"
        permission: "read"
        permission_type: "allow"
    state: "{{state_present}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Get SMB share details

The user can get SMB share details by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Get SMB share details
  dellemc_isilon_smb:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    share_name: "{{name}}"
    state: "{{state_present}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Modify the name of an existing SMB share

The user can modify the name of an existing SMB share by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify name for an existing SMB share
  dellemc_isilon_smb:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    share_name: "{{name}}"
    new_share_name: "{{new_name}}"
    access_zone: "{{non_system_access_zone}}"
    description: "new description"
    state: "{{state_present}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Modify an SMB share to add user permission

The user can modify an SMB share to add user permission by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify user permission for SMB share
  dellemc_isilon_smb:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    share_name: "{{name}}"
    path: "{{system_az_path}}"
    description: "{{description}}"
    permissions:
      - user_name: "{{system_az_user}}"
        permission: "full"
        permission_type: "allow"
      - group_name: "{{system_az_group}}"
        permission: "write"
        permission_type: "allow"
      - wellknown: "everyone"
        permission: "write"
        permission_type: "deny"
    state: "{{state_present}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Modify user permission for an SMB share

The user can modify user permission for an SMB share by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify user permission for smb share
  dellemc_isilon_smb:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    share_name: "{{name}}"
    path: "{{non_system_az_path}}"
    access_zone: "{{non_system_access_zone}}"
    description: "{{description}}"
    permissions:
      - user_name: "{{non_system_az_user}}"
        permission: "full"
        permission_type: "allow"
    state: "{{state_present}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Modify an SMB share to remove group permission

The user can modify an SMB share to remove group permission by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify SMB share to remove group permission
  dellemc_isilon_smb:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    name: "{{name}}"
    access_zone: "{{non_system_access_zone}}"
    permissions:
      - group_name: "{{group1}}"
        permission: "write"
        permission_type: "deny"
        provider_type: "ads"
    state: "{{state_present}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Modify group permission for an SMB share

The user can modify group permission for an SMB share by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify group permission for smb share
```

```

dellemc_isilon_smb:
  onefs_host: "{{onefs_host}}"
  verify_ssl: "{{verify_ssl}}"
  api_user: "{{api_user}}"
  api_password: "{{api_password}}"
  name: "{{name}}"
  path: "{{path}}"
  access_zone: "{{non_system_access_zone}}"
  permissions:
    - group_name: "{{group1}}"
      permission: "write"
      permission_type: "allow"
      provider_type: "ads"
  description: "smb description"
  state: "{{state_present}}"

```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Modify the description for an existing SMB share

The user can modify the description for an existing SMB share by running the appropriate playbook.

This is an example of the syntax of a playbook:

```

- name: Modify description for an existing SMB share
  dellemc_isilon_smb:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    share_name: "{{name}}"
    access_zone: "{{non_system_access_zone}}"
    description: "new description"
    state: "{{state_present}}"

```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Delete an SMB share

The user can delete an existing SMB share by running the appropriate playbook.

This is an example of the syntax of a playbook:

```

- name: Delete SMB share
  dellemc_isilon_smb:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    share_name: "{{name}}"
    state: "{{state_absent}}"

```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

SMB shares parameters

The following table lists the parameters that must be set before the user runs the playbook for the Group module:

Table 7 Parameters

| Parameter name | Type | Explanation | Mandatory /Optional | Default | Comments |
|----------------|------------|--|---------------------|---------|--|
| share_name | str | Name of the SMB share | Mandatory | | All the operations are supported through this parameter. |
| path | str | Path of the SMB share | Optional | | This parameter is mandatory only for the create operation. |
| access_zone | str | Access zone that contains this share | Optional | system | If not specified, it is system access zone. For non-system access zone, the effective path where the SMB is created is determined by the base path of the access zone and the path provided by the user in the playbook. For system access zone, the effective path is the absolute path provided by the user in the playbook. |
| description | str | Description about the SMB share | Optional | | |
| permissions | list[dict] | Specifies permission for specific user, group, or trustee. Valid options read, | Optional | | Permission: - user_name: <code>"{{system_az_user}}"</code> permission: <code>"full"</code> |

Table 7 Parameters (continued)

| Parameter name | Type | Explanation | Mandatory /Optional | Default | Comments |
|----------------|------|--|---------------------|---------|--|
| | | <p>write, and full. This is a list of dictionaries. Each dictionary entry has 3 mandatory values:</p> <ol style="list-style-type: none"> 1. user_name/group_name/wellknown can have actual name of the trustee like user/group/wellknown 2. Permissions can be read/write/full 3. permission_type can be allow/deny 4. provider_type can be local, filesystem, ads, or ldap. <p>The fourth entry provider_type is optional (default is local) and applicable to user and group only.</p> | | | <p>permission_type: "allow"</p> <p>provider_type: "ads"</p> <p>- group_name: "{{system_az_group}}"</p> <p>permission: "read"</p> <p>permission_type: "allow"</p> <p>provider_type: "file"</p> <p>- wellknown: "everyone"</p> <p>permission: "read"</p> <p>permission_type: "allow"</p> |
| state | str | State of the SMB share. Options are: [present, absent] | Mandatory | | |
| new_share_name | str | New name of the SMB share | | | |

Table 7 Parameters (continued)

| Parameter name | Type | Explanation | Mandatory /Optional | Default | Comments |
|------------------------------------|------|---|---------------------|--|--|
| access_based_enumeration | bool | Only enumerate files and folders the requesting user has access to. | Optional | False | |
| access_based_enumeration_root_only | bool | Access-based enumeration on only the root directory of the share. | Optional | False | |
| browsable | bool | Share is visible in net view and the browse list. | Optional | False | |
| ntfs_acl_support | bool | Support NTFS ACLs on files and directories. | Optional | True | |
| directory_create_mask | str | Directory create mask bits. | Optional | System AZ: 700 (octal) Non-system AZ: 777 (octal) | Octal value for owner, group, others vs read, write, execute |
| directory_create_mode | str | Directory create mode bits. | Optional | System AZ: 0 Non-system AZ: 777 (octal) | Octal value for owner, group, others vs read, write, execute |
| file_create_mask | str | File create mask bits. | Optional | System AZ: 700 (octal) Non-system AZ: 700 (octal) | Octal value for owner, group, others vs read, write, execute |
| file_create_mode | str | File create mode bits. | Optional | System AZ: 100 (octal) Non-system AZ: 100 (octal) | Octal value for owner, group, others vs read, write, execute |

Snapshot module

The snapshot module manages the snapshots available in Isilon.

The snapshot module supports the following functions:

- Create a filesystem snapshot.
- Get details of a filesystem snapshot.
- Modify a filesystem snapshot.
- Delete filesystem snapshot.

Create a snapshot for a Isilon filesystem

The user can create a snapshot of a filesystem by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Create a filesystem snap on Isilon
  dellemc_isilon_snapshot:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    path: "{{new_path_ansible_1}}"
    access_zone: "{{access_zone}}"
    snapshot_name: "{{snapshot_name}}"
    desired_retention: "{{desired_retention}}"
    retention_unit: "{{retention_unit_days}}"
    alias: "{{ansible_snap_alias}}"
    state: "{{state_present}}"
```

The parameters must be set before the user runs the playbook. See the [Parameters table](#) for more information about the parameters.

Get details of a filesystem snapshot

The user can get the details of a snapshot of a filesystem by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Get details of a filesystem snapshot
  dellemc_isilon_snapshot:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    path: "{{new_path_ansible_1}}"
    access_zone: "{{access_zone}}"
    snapshot_name: "{{snapshot_name}}"
    state: "{{state_present}}"
```

The parameters must be set before the user runs the playbook. See the [Parameters table](#) for more information about the parameters.

Modify filesystem snapshot desired retention

The user can modify a snapshot desired retention by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify filesystem snapshot desired retention
  dellemc_isilon_snapshot:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    path: "{{new_path_ansible_1}}"
    access_zone: "{{access_zone}}"
    snapshot_name: "{{snapshot_name}}"
    desired_retention: "{{desired_retention_new}}"
    retention_unit: "{{retention_unit_days}}"
    state: "{{state_present}}"
```

The parameters must be set before the user runs the playbook. See the [Parameters table](#) for more information about the parameters.

Modify expiration timestamp of the snapshot

The user can modify a snapshot expiration timestamp by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify filesystem snapshot expiration timestamp
  dellemc_isilon_snapshot:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    snapshot_name: "{{snapshot_name}}"
    expiration_timestamp: "{{expiration_timestamp_new}}"
    state: "{{state_present}}"
```

The parameters must be set before the user runs the playbook. See the [Parameters table](#) for more information about the parameters.

Modify filesystem snapshot alias

The user can modify a filesystem snapshot alias by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify filesystem snapshot alias
  dellemc_isilon_snapshot:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    snapshot_name: "{{snapshot_name}}"
    alias: "{{ansible_snap_alias_new}}"
    state: "{{state_present}}"
```

The parameters must be set before the user runs the playbook. See the [Parameters table](#) for more information about the parameters.

Delete snapshot alias

The user can delete a filesystem snapshot alias by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Delete snapshot alias
  dellemc_isilon_snapshot:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    path: "{{new_path_ansible_1}}"
    access_zone: "{{access_zone}}"
    snapshot_name: "{{snapshot_name}}"
    alias: ""
    state: "{{state_present}}"
```

The parameters must be set before the user runs the playbook. See the [Parameters table](#) for more information about the parameters.

Rename filesystem snapshot

The user can rename a filesystem snapshot by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Rename filesystem snapshot
  dellemc_isilon_snapshot:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    path: "{{new_path_ansible_1}}"
    access_zone: "{{access_zone}}"
    snapshot_name: "{{snapshot_name}}"
    new_snapshot_name: "{{new_snapshot_name}}"
    state: "{{state_present}}"
```

The parameters must be set before the user runs the playbook. See the [Parameters table](#) for more information about the parameters.

Delete filesystem snapshot

The user can delete a filesystem snapshot by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Delete filesystem snapshot
  dellemc_isilon_snapshot:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
```

```
path: "{{new_path_ansible_1}}"
access_zone: "{{access_zone}}"
snapshot_name: "{{new_snapshot_name}}"
state: "{{state_absent}}"
```

The parameters must be set before the user runs the playbook. See the [Parameters table](#) for more information about the parameters.

Snapshot module parameters

The following table lists the parameters that must be set before the user runs the playbook for the snapshot module:

Table 8 Parameters

| Parameter name | Explanation | Mandatory /Optional | Default | Comments |
|----------------------|---|---------------------|---------|---|
| snapshot_name | Name of the snapshot | Mandatory | Nil | |
| path | The path on which the snapshot will be taken | Optional | Nil | For non-system access zones, this path is relative to the base path of the access zone. For system access zones, it is the absolute path. |
| access_zone | the access zone | Optional | System | The effective path where the snapshot is created is determined by the base path of the access zone and the path provided by the user in the playbook. |
| new_snapshot_name | The new name of the snapshot | Optional | Nil | This parameter is for renaming the snapshot. |
| expiration_timestamp | The timestamp on which the snapshot will expire (UNIX epoch format) | Optional | Nil | Either this or desired retention can be specified but not both. |
| desired_retention | The number of days for which the snapshot can be retained. | Optional | Nil | Either this or expiration timestamp can be specified but not both. |
| retention_unit | The retention unit for the snapshot. | Optional | Nil | Hours is the default. Choices : [hours, days] |

Table 8 Parameters (continued)

| Parameter name | Explanation | Mandatory /Optional | Default | Comments |
|----------------|--------------------------------------|---------------------|---------|--|
| alias | The alias for the snapshot. | Optional | Nil | User can remove the alias by specifying empty string (""). |
| state | The state of the snapshot on Isilon. | Mandatory | Nil | Choices: [present, absent] |

Snapshot schedule module

The user can create, modify, delete, and get details of snapshot schedules.

To create a snapshot schedule, name, path, pattern, and schedule parameters are compulsory.

If `desired_retention` is not specified while creating snapshot schedule, the snapshot created with that schedule never expires.

Modification of path is not allowed through the Ansible module.

For a system access zone, the path has to be absolute. For non-system access zone, the path is relative.

The snapshot schedule module has the following functions:

- Create a snapshot schedule.
- Get the details of the snapshot schedule.
- Modify the snapshot schedule.
- Delete a snapshot schedule.

Create snapshot schedule

The user can create a snapshot schedule by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Create snapshot schedule
  dellemc_isilon_snapshotschedule:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    name: "{{name}}"
    access_zone: '{{access_zone}}'
    path: '{{path1}}'
    alias: "{{alias1}}"
    desired_retention: "{{desired_retention1}}"
    pattern: "{{pattern1}}"
    schedule: "{{schedule1}}"
    state: "{{state_present}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Get the details of the snapshot schedule

The user can get the details of a snapshot schedule by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Get details of snapshot schedule
  dellemc_isilon_snapshotschedule:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    name: "{{name}}"
    state: "{{state_present}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Modify the pattern of the snapshot schedule

The user can modify the pattern of a snapshot schedule by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify pattern of snapshot schedule on Isilon
  dellemc_isilon_snapshotschedule:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    name: "{{name}}"
    pattern: "{{pattern2}}"
    state: "{{state_present}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Modify the schedule of the snapshot schedule

The user can modify the schedule of a snapshot schedule by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify schedule of snapshot schedule
  dellemc_isilon_snapshotschedule:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    name: "{{new_name}}"
    schedule: "{{schedule2}}"
    state: "{{state_present}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Rename a snapshot schedule

The user can rename a snapshot schedule by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Rename snapshot schedule on Isilon
  dellemc_isilon_snapshotschedule:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    name: "{{name}}"
    new_name: "{{new_name}}"
    state: "{{state_present}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Modify the alias of a snapshot schedule

The user can modify the alias of a snapshot schedule by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify alias of snapshot schedule on Isilon
  dellemc_isilon_snapshotschedule:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    name: "{{new_name}}"
    alias: "{{alias2}}"
    state: "{{state_present}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Modify the retention of a snapshot schedule

The user can modify the retention of a snapshot schedule by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Modify retention of snapshot schedule
  dellemc_isilon_snapshotschedule:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    name: "{{new_name}}"
    desired_retention: 2
    retention_unit: "{{retention_unit_days}}"
    state: "{{state_present}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Delete a snapshot schedule

The user can delete a snapshot schedule by running the appropriate playbook.

This is an example of the syntax of a playbook:

```
- name: Delete snapshot schedule on Isilon
  dellemc_isilon_snapshotschedule:
    onefs_host: "{{onefs_host}}"
    verify_ssl: "{{verify_ssl}}"
    api_user: "{{api_user}}"
    api_password: "{{api_password}}"
    name: "{{new_name}}"
    state: "{{state_absent}}"
```

The parameters must be set before running the playbook. See the [Parameters table](#) for more information about the parameters.

Snapshot schedule module parameters

The following table lists the parameters that must be set before the user runs the playbook for the snapshot schedule module:

Table 9 Parameters

| Parameter name | Explanation | Mandatory /Optional | Default | Comments |
|----------------|--|---------------------|---------|---|
| name | Name of the snapshot schedule | Mandatory | | |
| path | The path on which the snapshot is taken | Optional | | This path is relative to the base path of the access zone. |
| access_zone | The access zone | Optional | System | The effective path for the snapshot schedule is determined by the base path of the access zone and the path provided by the user in the playbook. The effective path where the snapshot is created is determined by the base path of the access zone and the path provided by the user in the playbook. |
| new_name | New name of the snapshot schedule. | Optional | | Used for rename operation. |
| pattern | Pattern expanded with strftime to create | Optional | | Mandatory while creating the snapshot schedule. |

Table 9 Parameters (continued)

| Parameter name | Explanation | Mandatory /Optional | Default | Comments |
|--------------------------------|---|---------------------|---------|---|
| | snapshot names | | | For example: If the pattern is "Demo_%Y-%m-%d_%H:%M", the snapshot that is generated is named "Demo_2020-01-17_12:00". |
| <code>schedule</code> | The isdate compatible natural language description of the schedule It specifies the frequency of the schedule. | Optional | | Mandatory while creating the snapshot schedule. <ul style="list-style-type: none"> To run schedule daily at 1:00 AM, the value of schedule is every 1 day at 1:00 AM. To run schedule daily every 4 hours, the value of schedule is every day every 4 hours between 12:00 AM and 11:59 PM. |
| <code>desired_retention</code> | The number of days/hours for which snapshot is retained | Optional | | |
| <code>retention_unit</code> | The retention unit for the snapshot | Optional | Hours | Hours is the default. Choices: [hours, days] |
| <code>alias</code> | The alias for the snapshot | Optional | | |
| <code>state</code> | State of the snapshot schedule | Mandatory | | Choices: [present, absent] |

