Release Notes

Ansible Modules for Dell EMC Isilon

Version 1.1

Release Notes
June 2020

These release notes contain supplemental information about Ansible Modules for Dell EMC Isilon. Topics include:

D≪LLEMC

Revision history

The table summarizes the revision history of the release notes.

Revision	Date	Description
1	June 2020	Current release of Ansible Modules for Dell EMC Isilon 1.1

Product Description

This section describes the Ansible Modules for Dell EMC Isilon.

The Ansible Modules for Dell EMC Isilon allow Data Center and IT administrators to use RedHat Ansible to automate and orchestrate the configuration and management of Dell EMC Isilon arrays.

The Ansible Modules for Dell EMC Isilon support the following features:

- Create user, groups, filesystem, NFS export, smart quotas, SMB share, snapshot and snapshot schedule of a filesystem.
- Modify user, groups, filesystem, access zone, NFS export, smart quotas, SMB share, snapshot and snapshot schedule of a filesystem.
- Delete user, groups, filesystem, NFS export, smart quotas, SMB share, snapshot and snapshot schedule of a filesystem.
- Get details of user, Groups, filesystem, access zone, NFS export, smart quotas, SMB share, snapshot and snapshot schedule of a filesystem.
- Get attributes and entities of the array.

The Ansible modules use playbooks, written in yaml syntax, to list, show, create, delete, and modify each of these entities.

Features

This section describes the features of the Ansible Modules for Dell EMC Isilon for this release.

The Ansible Modules for Dell EMC Isilon release 1.1 supports the following features:

Idempotency

- Has been handled in all modules
- Allows the playbook to be run multiple times
- Avoids the need for complex rollbacks

Access Zones

Isilon has a concept of access zones. These are to partition the cluster into multiple isolated sections.

- Ansible modules support access zone operations that can also operate on the default (system) access zone.
- Users and Groups can be specific to a particular access zone.
- For non-system access zones, the path provided by the playbook is a relative path.

  Absolute path = Access zone base path + relative path provided by the user

Modules

- The User module supports the following functionality:

  - Create a local user.
  - Modify a local user.
  - Add roles to users of all provider type in system access zone.
  - Remove roles from users of all provider type in system access zone.
  - Get details of the local/AD/LDAP/File users.
  - Delete local user
- The Group module supports the following functionality:

  - Create a local group.
  - Modify a local group.
  - Add local users to a local group.
  - Remove local users from a local group.
  - Get details of local/AD/LDAP/file group.
  - Delete a local group.

- The File System module supports the following functionality:

  - Create a filesystem.
  - Quota definitions or modification for filesystem.
  - Get filesystem details like quota, list of snapshots, size occupied, number of files, and so on.
  - Delete an empty filesystem.
- The Access Zone module supports the following functionality:

  - Get details of the access zone.
  - Modify default settings of SMB share and NFS export.
- The NFS Export module supports the following functionality:

  - Create the NFS export for a filesystem
  - Modify attributes of NFS export.
  - Get details of NFS export.
  - Delete the NFS export.
- The SMB Share module supports the following functionality:

  - Create SMB share for a filesystem.
  - Modify the attributes of SMB share.
  - Get the details of SMB share.
  - Delete the SMB share.
- The Snapshot module supports the following functionality:

  - Create the snapshot of a filesystem.
  - Modify the attributes of the snapshot.
  - Rename the snapshot.
  - Get details of the snapshot.
  - Delete the snapshot.
- The Snapshot Schedule module supports the following functionality:

  - Create the snapshot schedule.
  - Modify attributes of the snapshot schedule.
  - Get details of the snapshot schedule.
  - Delete the snapshot schedule.
- The Gather Facts module supports the following functionality:

  - Get details of the any entity listed below:

    - Attributes
    - Access_zone
    - Nodes
    - Providers
    - Users
    - groups
- The Smart Quotas module supports the following functionality:

  - Create a quota.
  - Modify the attributes of quota like `include_overheads`, `soft_grace_period`, `hard_limit_size`.
  - Get details of the quota.
  - Delete the quota.

Known problems and limitations

This section lists the known problems and limitations of Ansible modules for Dell EMC Isilon.

- Known problems
- Limitations

Known problems

Known problems in this release are listed.

Snapshot schedule

If the playbook has a `desired_retention` field, running same the playbook again returns the changed as True (Idempotency does not work).

Filesystem creation

Creation of a filesystem can fail when `api_user`: "admin" because it is possible that the admin user may not have privileges to set an ACLs.

In that case, create a filesystem with `api_user`: "root".

Limitations

This section lists the limitations in this release of Ansible Modules for Dell EMC Isilon.

Gatherfacts

Getting the list of users and groups with very long names may fail.

Users and Groups

Only local users and groups can be created.

Operations on users and groups with very long names may fail.

Access Zone

Creation and deletion of access zones is not supported.

Filesystems

ACLs can only be modified from POSIX to POSIX mode.

Only directory quotas are supported but not user or group quotas.

Modification of `include_snap_data` flag is not supported.

NFS Export

If there multiple exports present with the same path in an access zone, operations on such exports fail.

Smart Quota:

Once the limits are assigned to the quota, then the quota can't be converted to accounting. Only modification to the threshold limits is permitted.

No support for advanced Isilon features

Advanced Isilon features include SyncIQ, tiering, replication, and so on.

Software media, organization, and files

This section provides information about where to find the software files for this release of the product.

The software package is available for download from the Ansible Modules for Isilon GitHub page.

Additional resources

This section provides more information about the product, how to get support, and provide feedback.

Documentation

This section lists the related documentation for Ansible Modules for Dell EMC Isilon.

The documentation is available on the Ansible Modules for Isilon GitHub page. The documentation includes the following:
- Ansible Modules for Dell EMC Isilon Release Notes (this document)
- Ansible Modules for Dell EMC Isilon Product Guide

Troubleshooting and support

Use the resources in this section to get help and support.

Troubleshooting and technical support

The Dell Container Community provides your primary source of support services.

For any setup, configuration issues, questions or feedback, join the Dell EMC Container community at https://www.dell.com/community/Containers/bd-p/Containers.

Technical support

Dell EMC Online Support also provides technical support services. To open a service request, you must have a valid support agreement. To get a valid support agreement or for other questions about your account, contact your Dell EMC sales representative.

For documentation, release notes, software updates, and other information about Dell EMC products, go to Dell EMC Online Support.

Support

Use the resources in this topic to get help and support.

The source code available on Github is unsupported and provided solely under the terms of the license attached to the source code. For clarity, Dell EMC does not provide support for any source code modifications.

For any Ansible module setup, configuration issues, questions or feedback, join the Dell EMC Automation community at https://www.dell.com/community/Automation/bd-p/Automation?ref=lithium_menu

For any Dell EMC storage issues, please contact Dell support at: https://www.dell.com/support.

Notes, cautions, and warnings

ⓘ **NOTE:** A NOTE indicates important information that helps you make better use of your product.

⚠ **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

⚠ **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.