Ansible Modules for Dell EMC Unity

Version 1.0

Release Notes

Rev. 01
June 2020

These release notes contain supplemental information about Ansible Modules for Dell EMC Unity and include the following topics:

Revision history

The table in this section lists the revision history of this document.

Table 1. Revision History

Revision	Date	Description
01	June 2020	Initial release of the product.

Product description

Learn about Ansible Modules for Dell EMC Unity and the supported features.

The Ansible modules for Dell EMC Unity are used to automate and orchestrate the deployment, configuration, and management of Dell EMC Unity Family systems, including Unity, Unity XT, and the UnityVSA. The capabilities of Ansible modules are managing volumes (LUNs), consistency groups, storage pools, hosts, snapshots, and snapshot schedules, and obtaining Unity system information. The options available for each capability are list, show, create, delete, and modify.

New features

List of features that are supported in this release.

The Ansible Modules for Dell EMC Unity Version 1.0 initial release supports the following tasks for block-based storage:

- Gather Facts Module
  - List of volumes
  - List of consistency groups
  - List of fibre channel (FC) initiators
  - List of iSCSI initiators
  - List of hosts
  - List of snapshot schedules
- Volume Module (LUNs)
  - Create volume
    - In a pool
    - Assign an I/O limit policy
    - Assign a tiering policy
    - Assign a snap schedule
    - Map to a host
  - Modify Volume
    - Expand a volume by name or ID
    - Modify volume details including description, compression, and default SP
    - Modify host by volume name or ID
    - Modify host mapping by host name or host ID
  - Delete volume
    - Delete a volume by volume name or ID
- Consistency Group Module
  - Create a consistency group
  - Get details for a consistency group by consistency group name or ID
  - Add volumes to a consistency group
  - Modify consistency group details
  - Rename a consistency group
  - Remove volumes (LUNs) from a consistency group
  - Delete a consistency group
- Storage Pool Module
  - Get storage pool details using a pool name or pool ID
  - Modify storage pool attributes using the pool name or pool ID

- Host Module
  - Create a host
  - Create a host with FC or iSCSI initiators
  - Add FC or iSCSI initiators to a host
  - Get details of a host
  - Modify host attributes
  - Rename a host
  - Remove FC and iSCSI initiators from a host
  - Delete a host
- Snapshot Module
  - Create a snapshot for a consistency group
  - Create a snapshot for a volume (LUN)
  - Get snapshot details
  - Map a host to a snapshot
  - Unmap a host from a snapshot
  - Modify attributes of a snapshot for a volume (LUN)
  - Delete a snapshot
- Snapshot Schedule Module
  - Create a snapshot schedule with an hourly rule
  - Create a snapshot schedule with a daily rule
  - Create a snapshot schedule with an every n days rule
  - Create a snapshot schedule with a weekly rule
  - Create a snapshot schedule with a monthly rule
  - Get details of a specific snapshot schedule
  - Modify the attributes of a snapshot schedule
  - Delete snapshot schedule

Known problems and limitations

List of known problems and limitations for the Ansible Modules for Dell EMC Unity version 1.0 release.

Known problems

There are no known problems in this release.

Limitations and considerations

Note the following considerations when using Ansible Modules for Dell EMC Unity 1.0:

- Storage pools module
  - Only the `get` and `modify` operations are supported in this release.
  - The `create` and `delete` operations are not applicable in 1.0.
- Consistency groups module
  - If a consistency group has snapshots, you cannot add or remove volumes from it.
  - Consistency groups cannot be mapped to a host. Only the individual volumes (LUNs) that comprise the consistency group can be mapped to a host.
  - If a consistency group has volumes, it cannot be deleted.
  - Tiering policies cannot be applied to an empty consistency group.
- Volumes module
  - You cannot delete a volume that has mapped hosts.
  - You must first unmap the hosts using the `unmap` operation for any volumes you need to delete.
- Snapshot schedules module
  - Snapshot schedules created using Ansible can only have one rule applied.
  - For the `create` and `modify` operations, the `type` is mandatory.

- You cannot modify a rule type once the schedule is created. However, you can modify other parameters within the same rule type.
- A rule cannot have both autodelete and a desired retention time set at the same time. These parameters are mutually exclusive.
- If an existing snapshot schedule has more than one rule applied to it, only the `get` and `delete` operations are available when using Ansible for those snapshots schedules.

- Host module
  - Host initiators can only be removed when they are in a logged off state, meaning, there are no active initiator paths associated with the initiator.

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 https://github.com/dell/ansible-unity page.

Additional resources

Learn how to find more information about the product and get support.

Documentation

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

The latest documentation for Ansible Modules for Dell EMC Unity is available on the https://github.com/dell/ansible-unity page. This documentation includes the following:

- Ansible Modules for Dell EMC Unity Release Notes (this document)
- Ansible Modules for Dell EMC Unity Product Guide

Troubleshoot and get help

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

Technical support

Ansible modules for Unity are supported by Dell EMC, and are provided under the terms of the license that is attached to the source code. Dell EMC does not provide support for any source code modifications.

For Ansible configuration, setup issues, or questions, use the Dell EMC Automation community. For any issues with Dell EMC Storage, contact Dell EMC Online 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.