Ansible modules for Dell EMC VPLEX

Release Notes

1.3

DELLTechnologies

Notes, cautions, and warnings

(i) **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.**

Contents

Release Notes

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

Topics:

Revision history

Table 1. Document Revision History

Date	Document revision	Description of changes
July 2025	04	Ansible Modules for Dell EMC VPLEX release 1.3
March 2021	03	Ansible Modules for Dell EMC VPLEX release 1.2
December 2020	02	Ansible Modules for Dell EMC VPLEX release 1.1
October 2020	01	Ansible Modules for Dell EMC VPLEX release 1.0

Product description

This section describes the Ansible Modules for Dell EMC VPLEX.

This section describes the Ansible Modules for Dell EMC VPLEX. The Ansible Modules for Dell EMC VPLEX are used for managing Storage Views, Initiators, Ports, Back End Ports, Consistency Groups, Virtual Volumes, Devices, Extents, Storage Volumes, Distributed Devices, Distributed Virtual Volumes, Distributed Consistency Groups, Data Migration, and also perform gather facts operation on the storage array. The modules use playbooks to list, show, create, delete, and modify each of the entities. The modules are also supported for local and distributed for metro node 9.0.

The Ansible Modules for Dell EMC VPLEX supports the following features:

- Create Device, Virtual volume, Extent, Consistency group, Storage view, Claim storage volumes, and Add initiator.
- Modify Virtual volume, Devices, Extents, Storage volumes, Consistency group, Storage view, and Initiator.
- Delete Virtual Volume, Device, Extents, Consistency group, and Storage View.
- Register and Unregister Initiator.
- Get details of the Initiator, Virtual volume, Storage volume, Device, FE port, BE port, Extent, Consistency groups, Storage view, Initiators, and Array
- List Virtual volumes, Devices, Extents, Storage volumes, Ports, Storage arrays, Consistency groups, Storage views, Initiators, ITLs.
- Set Thin rebuild.
- Rediscover Initiators and connected Array.
- Claim or Unclaim Storage volumes.
- Enable or Disable FE port
- Create, List, Commit, Pause, Resume, Delete, and Cancel Data Migration job.
- Update-Transfer size.

- Cache-invalidate a virtual volume.
- Expand virtual volume through backend array storage volume expansion.

New features and changes

This section describes the new features of the Ansible Modules for Dell EMC VPLEX.

Ansible 1.3

The following is the list of the new features of Ansible modules that are supported in this release:

- Optimized entity collection from clusters to enhance performance.
- Updated GET support for retrieving specific entities from the database.
- Enhanced gatherfact module to support AMP data for VPLEX 6.2.
- Updated playbooks for compatibility with Python 3.13 and Ansible 2.18.
- Auto Installer and configuration script update.
- Distributed device ruleset deprecation.
- Maps module improvement.
- Validated Playbooks with VPLEX SDK 6.2, 7.0, 8.0, 8.1, and 9.0.

Ansible 1.2

The following is the list of the new features and modules that are added for support in this release:

- Ansible modules are RedHat certified.
- Ansible modules that are released as a collection.
- Auto installer and configuration script
- Maps module

The following is the list of improvements that are included in this release:

- Consistency group module improvement.
- Device module improvement.
- Initiators module improvement.
- Virtual volume (local and distributed) modules improvement.
  - Expand using backend array storage volume expansion.
  - Creation of Virtual volume during the rebuild
  - VPLEX Cache-invalidate (only for 6.2)
- Data migration module Improvement- Extent migration operation is implemented.
- Filter operation implementation in Gather Facts module
- Added common debug parameter
- Added vplex_timeout parameter

Ansible 1.1

The following is the list of new features of Ansible modules that are supported in this release:

- Distributed virtual volume
- Distributed consistency group
- Distributed device
- Data migration

Ansible 1.0

The following is the list of Ansible modules that are supported in this release:

- Gather facts

- Storage Volume
- Extent
- Device
- Virtual Volume
- Consistency Group
- Port
- Initiator
- Storage View
- Rediscover Array

Fixed defects

Table 2. Issues fixed in Release 1.3

Defect numbers	Summary
VPLEX-62824	Resolve sanity and lint issues.
VPLEX-61398	Validate Playbooks in metro node 9.0 and VPLEX 6.2.
VPLEX-61113	Remove with_sequence deprecation from playbooks.
VPLEX-60900	Maps Modules validation on different flavors of ansible and vplex versions.
VPLEX-49464	VPLEX Ansible should remove rule-sets on distributed devices.
VPLEX-47353	Ansible is making requests to refreshes which are slow even when its not required.
VPLEX-35799	Auto install script Improvement.
VPLEX-29199	Ansible Virtual Volumes: Expand idempotency failed for ordered devices list having more than two items.

Table 3. Issues fixed in Release 1.2

Defect numbers	Summary
VPLEX-34851	Logs mechanism: The directory name **Log** should be **log**, created through log collection utility.
VPLEX-34811	Installer utility: Add (recommended) string with each choice.
VPLEX-34762	Utils: Add vplexapi request timeout parameter as user input.
VPLEX-34710	Installer utility: Sanity test fails for `shellcheck`.
VPLEX-34487	The vplexlog_collection module is getting a warning message `InsecureRequestWarning`.
VPLEX-34442	Initiators: If the user provides an invalid timeout value, there is a failure in rediscovery task.
VPLEX-34440	Devices: There is a requirement to get the proper error message for `transfer_size update -ve` scenarios.
VPLEX-33755	MapsAPI playbook: The parameter `entity_name` should be a variable.
VPLEX-33506	Gather facts filtering: If you provide a specific range of capacity, then getting storage volume fails.
VPLEX-33210	The extent patch operation check should be modified in the local device of the Ansible module.
VPLEX-33031	The execution of the playbooks fails intermittently to establish connection with the VPLEX setup.
VPLEX-29426	Update on debug log parameter and vplexapi request timeout in sample playbooks.

Table 4. Issues fixed in Release 1.1

Defect numbers	Summary
VPLEX-32489	Utils::VPLEX version is not coming in Ansible logs.
VPLEX-32442	In distributed virtual volume, **Create the distributed_virtual_volume** name does not happen on an already created volume.
VPLEX-32441	Remove the parameter **storage** from **dellemc_vplex_data_migration** module .
VPLEX-32422	In storage volume, **Claim idempotency** and **Rename** are not working.
VPLEX-32292	In storage view, **Create** and **Rename** are not allowed in a same task.
VPLEX-31897	In distributed devices, response must have details of source device and target device.
VPLEX-31896	In distributed consistency group, **Update the doc with the detach rule**, **Create**, and **Rename** are not allowed in a same task.
VPLEX-31854	In distributed virtual volumes, there is a requirement to rework on expand operation based on parameter change.
VPLEX-31785	**Create** and **Rename** of a distributed device are not allowed in a same task.
VPLEX-30391	In the device, correct the error messages.
VPLEX-30389	In the consistency group, when rename and add virtual volume are given, then two PATCH operations are issued.
VPLEX-32362	If the vplexhost, vplexuser, and password fields are empty, then module execution fails.
VPLEX-30319	In extent, when both the operations POST and PATCH are specified in a single task and if an invalid new name is provided for PATCH call, then POST does not happen.
VPLEX-30317	In storage volume, when both the operations POST and PATCH are specified in a single task and if invalid new name is provided for PATCH call, then POST does not happen.
VPLEX-32301	Change the module name **dellemc_vplex_data_transfer** to **dellemc_vplex_data_migration**.
VPLEX-30280	The module restricts the renaming of extent. It restricts at 60 (as per the UI) where the maximum limit of the characters is 63 according to the VPLEX API.
VPLEX-30269	The module restricts the creating or renaming a device. It at 60 (as per the UI) where the maximum limit of the characters is 63 according to VPLEX API.
VPLEX-30267	In extent, rename extent along with POST call with the existing extent name must be updated with the exact name in the output.
VPLEX-31989	In a virtual volume (local) module, there is a requirement to update the create operation with the user-specified name.
VPLEX-30198	In a device, when both POST and PATCH are issued in a single task, then only POST call is handled.
VPLEX-30197	In extent module, there is a requirement to update the create operation with the user-specified name.
VPLEX-30192	In initiator, when POST and PATCH are given in a single task, then only one of the POST and PATCH operation is issued.

Known problems and limitations

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

- Known problems
- Limitations

Known problems

Table 5. Known Issues in release 1.3

Issue Number	Description	Workaround
VPLEX-31889	VPLEX Python SDK 6.2 testing against python version 3.7+ is not working and ends in failure.	VPLEX SDK uses variable which is used as Python keyword in 3.7+ . Hence VPLEX SDK 6.2 is not supported with 3.7+. No workaround.

Table 6. Known Issues in release 1.2

Issue Number	Description	Workaround
VPLEX-29199	Virtual Volumes: Expand idempotency fails for ordered devices list having more than two items.	For idempotency, as per the requirement, users must pass added devices in the same order as the first-time expansion. MapsAPI is not always returning correct expanding or adding device order in VPLEX, and it results in failing order verification.
VPLEX-31889	The VPLEX python SDK testing against python version 3.7+ is not working and ends in failure.	The workaround is not available in this release.

Table 7. Known Issues in Release 1.1

Issue Number	Description	Workaround
VPLEX-29199	Virtual Volumes: The expand idempotency is failed for the ordered list for the devices, if it has more than two items.	The workaround is not available in this release.
VPLEX-29426	Update on debug log parameter and default timeout in sample playbooks.	The workaround is not available in this release.
VPLEX-30418	Ansible module supports for Maps API across supported storage elements in VPLEX.	The workaround is not available in this release.
VPLEX-31889	VPLEX Python SDK testing against python version 3.7+ is not working and ends in failure.	The workaround is not available in this release.

Table 8. Known Issues in Release 1.0

Issue Number	Description	Workaround
VPLEX-29199	Virtual Volumes: The expand idempotency is failed for the ordered list for the devices, if it has more than two items.	The workaround is not available in this release.
VPLEX-30192	Initiator-only one of POST and PATCH operation is issued when both are given in a single task.	Specify each call in a separate task.
VPLEX-30198	Device-only POST call gets handled when both POST and PATCH is issued in a single task.	Specify each call in a separate task.
VPLEX-30267	Extent: Rename extent along with POST call with the existing extent name should be updated with the exact name in the output.	When create and rename an extent is given in the same task, the new_extent_name should be different than the name of the newly created extent.

Limitations

Ansible 1.2

There are no limitations in this release.

Ansible 1.1

There are no limitations in this release.

Ansible 1.0

● The metro configurations are not supported.

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 VPLEX 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 VPLEX.

The Ansible Modules for Dell EMC VPLEX is available on Github. The documentation includes the following:

● Ansible Modules for Dell EMC VPLEX Release Notes.
● Ansible Modules for Dell EMC VPLEX Product Guide.

Get help

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

Product Information

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

Technical support

Ansible modules for VPLEX are supported by Dell, and are provided under the terms of the license that is attached to the source code.

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