

Ansible modules for Dell EMC VPLEX

Release Notes

Version 1.2

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.

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Release Notes

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

Topics:

- [Revision history](#)
- [Product description](#)
- [New features and changes](#)
- [Fixed defects](#)
- [Known problems and limitations](#)
- [Software media, organization, and files](#)
- [Additional resources](#)

Revision history

| Date | Document revision | Description of changes |
|---------------|-------------------|--|
| 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.

The Ansible Modules for Dell EMC VPLEX are used for managing Storage views, Initiators, Ports, Backend ports, Consistency groups, Virtual volumes, Devices, Extents, Storage volumes, Distributed devices, Distributed virtual volumes, Distributed consistency groups, Data migration, and also able to do 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.

The Ansible Modules for Dell EMC VPLEX support 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 1.2

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 done 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 the new features of Ansible modules that are added for support 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

Issues fixed in Release 1.2

The following issues are 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 <code>shellcheck</code> . |
| VPLEX-34487 | The vplexlog_collection module is getting warning message <code>InsecureRequestWarning</code> . |
| VPLEX-34442 | Initiators: If the user provides invalid timeout value, there is a failure in rediscovery task. |
| VPLEX-34440 | Devices: There is a requirement to get the proper error message for <code>transfer_size</code> update -ve scenarios. |
| VPLEX-33755 | MapsAPI playbook: The parameter <code>entity_name</code> should be a variable. |
| VPLEX-33506 | Gather facts filtering: If you give specific range of capacity, then getting storage volume fails. |
| VPLEX-33210 | The extent patch operation check should be modified in 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. |

Issues fixed in Release 1.1

The following issues are 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 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 be 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 device, correct the error messages. |
| VPLEX-30389 | In consistency group, when rename and add virtual volume are given, then two PATCH operations are issued. |
| VPLEX-32362 | If vplexhost, vplexuser, and password fields are empty, then module execution fails. |

| Defect numbers | Summary |
|----------------|--|
| VPLEX-30319 | In extent, 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-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 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 virtual volume (local) module, there is a requirement to update the create operation with the user-specified name. |
| VPLEX-30198 | In 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

Known problems in Release 1.2

| Issue Number | Description | Workaround |
|--------------|--|--|
| VPLEX-29199 | Virtual Volumes: Expand idempotency fails for ordered devices list having more than 2 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. |

Known problems in Release 1.1

| Issue Number | Description | Workaround |
|--------------|--|--|
| VPLEX-29199 | Virtual Volumes: The expand idempotency is failed for ordered list for the devices, if it has more than two items. | The workaround is not available in this release. |

| Issue Number | Description | Workaround |
|--------------|--|--|
| 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. |

Known problems in Release 1.0

| Issue Number | Description | Workaround |
|--------------|---|--|
| VPLEX-29199 | Virtual Volumes: The expand idempotency is failed for 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 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 <https://github.com/dell/ansible-vplex> 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 <https://github.com/dell/ansible-vplex>. 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](#).