CSI Driver for Dell EMC Unity

Version 1.2

Release Notes

June 2020

These release notes contain supplemental information about the CSI Driver for Dell EMC Unity. Topics include:

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Revision history

The following table presents the revision history of this document.

Table 1. Revision history

Revision	Date	Description
03	June 2020	Updated for version 1.2.
02	April 2020	Updated for version 1.1.
01	November 2019	First release of the product.

Product description

This section describes the CSI Driver for Dell EMC Unity.

The CSI Driver for Dell EMC Unity is a plug-in that is installed into Kubernetes to provide persistent storage using Dell EMC Unity storage systems.

The CSI Driver adheres to the Container Storage Interface (CSI) specification \lor 1.1. It is compatible with Kubernetes versions 1.14 and 1.16. The Red Hat Enterprise Linux 7.6 and 7.7, and CentOS 7.6 and 7.7, host operating systems are supported.

Features of the CSI Driver for Dell EMC Unity

The CSI Driver for Dell EMC Unity supports the following features:

- · Persistent volume (PV) capabilities:
 - o Create
 - o List
 - o Delete
 - Mount
 - Unmount
- · Supports multiple storage arrays with a single CSI Driver
- · Supports mounting volume as file system
- · Supports snapshot creation
- · Supports creation of a volume from a snapshot for FC and iSCSI protocols
- · Supports static volumes and dynamic volumes
- Supports Bare Metal machine type
- Supports Virtual Machine type
- · Supports RWO for FC and iSCSI protocols, and supports RWO, ROX, and RWX for NFS protocol
- Supports CentOS 7.6 and 7.7 as host operating system
- · Supports Red Hat Enterprise Linux versions 7.6 and 7.7 as host operating system
- · Supports HELM charts installer
- Supports Kubernetes versions 1.14 and 1.16
- Supports installation of the csi-unity driver in OpenShift 4.3 environment by using HELM v3.x
- Supports Unity OE 5.0
- Supports FC Protocol
- · Supports iSCSI Protocol
- · Supports NFS Protocol versions 3 and 4

Known problems and limitations

This section describes the known problems and limitations associated with this release of the product.

Known problems

Issue	Resolution or workaround, if known
526: Driver is crashing while doing install.unity with wrong unityUsername, wrong unityPassword, or both.	Uninstall the CSI driver installation and re-install using the proper username and password.
603: Volume and snapshot name cannot have more than 63 characters.	All volume names and snapshot names (including prefix) must be less than 63 characters.
670: While creating a new pod, if the multipath driver on Kubernetes nodes is not able to issue the dm-uuid-mpath device for a given PVC, the driver picks the wwn-0x standard device to perform the mount operation. This may lead to data unavailability.	Restart the multipath driver, and ensure all devices are claimed with dm-uuid-mpath.
632: Pod stuck at container creating state for over 1 minute. Pod description shows Unable to find device after multiple discovery attempts: rpc error: code = NotFound desc = Check for disk path /dev/disk/by-id/wwn-0xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	 Check if the zoning is done correctly for the FC channel (if an FC-based volume is used), or that at least 1 iSCSI target is up on the array (if an iSCSI-based volume is used). If the problem persists, execute /usr/bin/rescan-scsi-bus.sh -a -r. The script cleans up any stale devices present on the node. Install the sg3_utils package if the script is not present on the node.
659: unity namespace got deleted.	 Re-create the unity namespace. Uninstall the controller and node pods, and then re-install the pods. You should be able to continue the creation and deletion of Kubernetes objects as usual.
566: When creating a PVC from a snapshot, the PVC is automatically given the attributes of the default storage class.	Create a new custom storage class. The new custom storage class should have the following properties with the same value as in the default storage class: storage pool thin provision data reduction size You must provide this storage class when creating a PVC from an existing snapshot.
326: When the same machine has two hosts with different hostnames but with the same IQN, the CSI Driver for Unity (v1.1) gives the following error: REP 0125: unable to find host.	Ensure that each host has a unique initiator IQN, and that the correct IQN was added to the corresponding host object on the array.
532: Not able to find storage class with xfs filetype.	Create a custom storage class for this type of requirement. An example follows of a custom storage class (in yaml format) that can be created in order to mount pvcs as an xfs filesystem. apiVersion: storage.k8s.io/v1 kind: StorageClass metadata: name: sc-xfs-iscsi parameters: FsType: xfs isDataReductionEnabled: "false" storagepool: pool_1

Issue	Resolution or workaround, if known
	thinProvisioned: "true" tieringPolicy: "3" protocol: "iSCSI" provisioner: csi-unity.dellemc.com reclaimPolicy: Delete.
After installing CSI Unity, the username/password of Unisphere changed.	Refer to the <i>CSI Unity Product Guide</i> for creating or replacing a new secret.
Make sure that the isDefaultArray parameter matches where necessary.	Make sure that the isDefaultArray parameter is set to true against the same storage array in both myvalues.yaml and secret.json files.

Software media, organization, and files

This section provides information about where you can find the software files for this release of the CSI Driver for Dell EMC Unity.

The software package is available for download from the CSI Driver for Dell EMC Unity GitHub page.

Additional resources

This section provides information about the CSI Driver for Dell EMC Unity, how to get support, and provide feedback.

Documentation

This section lists the related documentation for CSI Driver for Dell EMC Unity.

The CSI Driver for Dell EMC Unity is available on the CSI Driver for Dell EMC Unity GitHub page. The documentation includes the following:

- · CSI Driver for Dell EMC Unity Release Notes (this document)
- · CSI Driver for Dell EMC Unity Product Guide

Troubleshooting and getting help

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

Product information

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

Technical support

For any CSI driver configuration, setup issues, or questions, use the Dell EMC container forum. For any issues with Dell EMC Storage, contact Dell EMC Online Support.

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.