Dell EMC VxFlex OS - CSI Driver for Kubernetes

Version 1.0

Release Notes

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DELL EMC

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CHAPTER 1

Release Notes

These release notes contain supplemental information about Dell EMC VxFlex OS - CSI 1.0 Driver for Kubernetes. Topics include:

Revision history

The following table presents the revision history of this document.

Revision	Date	Description
01	April 2019	First release of the product

Product description

This section describes the VxFlex OS - Container Storage Interface (CSI) 1.0 Driver for Kubernetes

The VxFlex OS - CSI driver is a plug-in that is installed into Kubernetes to provide persistent volumes using Dell EMC VxFlex OS storage system. The VxFlex OS CSI driver and Kubernetes communicate using the Container Storage Interface protocol v 1.0. The VxFlex OS CSI driver is compatible with Kubernetes 1.13.x.

New features and changes

This section describes the new features of the Dell EMC VxFlex OS - CSI driver in this release.

The VxFlex OS CSI driver supports the following features:

- Persistent volume (PV) capabilities - create, list, delete, and create-from-snapshot
- Dynamic and static PV provisioning
- Snapshot capabilities - create, delete, and list
- Volume mount as *ext4* or *xfs* file system on the worker node
- Supports the following access modes:
  - multi-node-single-writer
  - single-node-writer
  - single-node-reader-only
  - multi-node-reader-only
  - multi-node-single-writer
- Volume prefix for easy LUN identification
- Supports HELM charts installer
- Supports CSI 1.0
- Supports Kubernetes version 1.13.1, 1.13.2 and 1.13.3
- Compatible with VxFlex OS version 3.0 with medium granularity storage pools.

Known problems

The table in this section lists the known problems for this release.

Symptoms	Prevention, resolution, or workaround
The basic allocation granularity is 8 GB for the volume size on VxFlex OS. For any Persistent Volume Claim (PVC) between 1 GB - 8 GB, the created volume in VxFlex OS defaults to 8 GB. Any PVC less than 1 GB would result in a failure.	Persistent Volume Claim (PVC) requests should follow the basic allocation granularity of 8 GB for the volume sizes that are defined in the VxFlex OS guidelines.

Software media, organization, and files

This section provides information on where to find the software files for this release of driver.

The software package is available for download from VxFlex OS GitHub page.

Additional resources

This section provides information about VxFlex OS - CSI driver, get support, and provide feedback.

Documentation

This section lists the related documentation for driver.

The VxFlex OS - CSI driver is available on VxFlex OS GitHub page. The documentation includes the following:

- VxFlex OS - Container Storage Interface (CSI) 1.0 Driver for Kubernetes Release Notes (this document)
- VxFlex OS - Container Storage Interface (CSI) 1.0 Driver for Kubernetes Product Guide

Troubleshooting and getting help

Use the resources in this topic 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

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