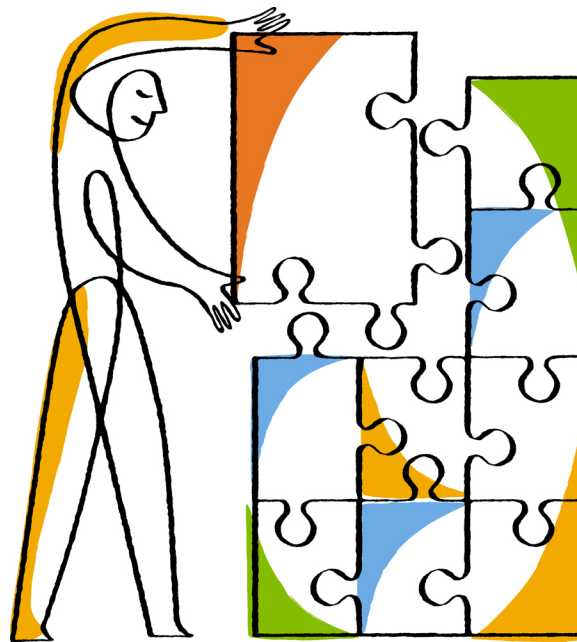




**NetApp®**

## SnapManager® 2.1.1 for Hyper-V®

### Release Notes



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## Product overview

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SnapManager for Hyper-V provides you with a solution for data protection and recovery for Microsoft Hyper-V virtual machines (VMs) running on Data ONTAP on cluster shared volumes and Windows shared and dedicated volumes.

You can perform application-consistent and crash-consistent dataset backups according to protection policies set by your backup administrator. You can also restore VMs from these backups. Reporting features enable you to monitor the status of and get detailed information about your backup and restore jobs.

## New in this release

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This release of SnapManager for Hyper-V includes feature enhancements that build on the new and changed features and cmdlets in the previous version. This release supports the following new configuration:

- Support for clustered Data ONTAP 8.3.1

## Fixed issues

It is a good practice to review the known issues fixed in a new release before upgrading to it. If a Bugs Online report is available, the bug ID contains a hyperlink to the report.

| Bug ID                 | Description                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">786956</a> | SnapManager for Hyper-V application-consistent backups fail for several VMs.                                                                                                                           |
| <a href="#">886418</a> | In the distributed application-consistent backup, where volumes contain Cluster Shared Volumes (CSVs) LUNs, SnapManager for Hyper-V creates multiple SnapMirror update Snapshot copies.                |
| <a href="#">863807</a> | If SnapManager for Hyper-V is not installed on C:drive, and the report directory is set to the folder on the drive where SnapManager for Hyper-V is installed, then the configuration operation fails. |
| <a href="#">858724</a> | Creation of policy in SnapManager for Hyper-V fails, as the Add-SMHVPolicy command allows the creation of policy name with non-alphanumeric character such as whitespace.                              |

## Upgrade notes

Upgrade notes describe new requirements and changes in support between the last release of the product and this one, including any deprecated features. Review this information carefully before upgrading to the new release. See the NetApp Interoperability Matrix (IMT) for supported configurations and the product user documentation for complete system requirements.

SnapManager for Hyper-V has discontinued support for the following:

- x86 Windows installation package for management consoles

The latest version of SnapDrive for Windows is required.

To find the latest version of SnapDrive, go to the Interoperability Matrix.

[NetApp Interoperability Matrix Tool](#)

## Verifying support for your configuration in the IMT

You can use the NetApp Interoperability Matrix (IMT) to verify product support for your configuration: Data ONTAP software, host operating system, and so on. Verify support for your configuration before you install or upgrade to the new release.

### Steps

1. Access the IMT.

*NetApp Interoperability Matrix Tool*

2. If SnapManager for Hyper-V is not the selected Storage Solution, click **Change** and select it under the Software category.



3. In the **Component Explorer** pane, select each component you want to verify and click **Add** when prompted.

When you add an item, incompatible items are grayed out.

**Tip:** Select the parent of a set of components to select all of its children.

4. When you are satisfied with your choices, click **Show Results**.

The IMT lists each supported configuration.

5. You can:

- Scroll across a configuration to view the supported components and any notes or alerts for the configuration.
- Click the configuration name to display complete information for supported components, including support history and NetApp policies and guidelines for the selected Storage Solution category.

6. If no results are returned for your configuration, use the feedback wizard to report the problem to NetApp:

- a. Click **Feedback** in the upper right corner of the IMT.
- b. Select **I cannot find my configuration** and then click **Next**.
- c. Choose SnapManager for Hyper-V in the **Solution** drop-down list, and then type your comments and click **Submit**.

## Important cautions

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Important cautions identify issues that could severely degrade product functionality. Review these cautions carefully.

### **Restoring application-consistent backups after 7-Mode to clustered Data ONTAP transition**

You cannot restore application-consistent backups that reside on volumes that have been transitioned from 7-Mode to clustered Data ONTAP using the 7-Mode Transition Tool. However, you can back up and then restore from the new application-consistent backup copies you create after transition.

### **Restoring crash-consistent backups after 7-Mode to clustered Data ONTAP transition**

After transitioning volumes from 7-Mode to clustered Data ONTAP using the 7-Mode Transition Tool, you can restore VMs from crash-consistent backup copies using SnapManager for Hyper-V. The restore operation can be performed from the command-line interface.

### **Accessing dedicated and shared disks and virtual machines**

If you do not perform the following series of steps after transition from 7-Mode to clustered Data ONTAP, you cannot access your dedicated and shared LUNs.

1. Refer to the 7-Mode Transition Tool 2.0 for Data and Configuration Transition Supplement for SAN Hosts to bring up the disks in disk management on the host.  
[7-Mode Transition Tool 2.1 SAN Host Transition and Remediation Supplemental Guide](#)
2. After migration to clustered Data ONTAP using the 7-Mode Transition Tool, add the management LIF of the clustered Data ONTAP Storage Virtual Machine (SVM, formerly known as Vserver) to the transport protocol setting in SnapDrive for Windows.
3. Refresh the disks in the SnapDrive GUI or CLI to see the disks in SnapDrive along with the Snapshot copies created prior to the transition.
4. Power on the virtual machines from Failover Cluster Manager and verify that the VMs are running.
5. Set the SnapInfo settings again in the SnapManager for Hyper-V MMC GUI.
6. After the VMs are running, you can perform all new SnapManager for Hyper-V workflows on clustered Data ONTAP.

You must have reviewed the 7-Mode Transition Tool capabilities and limitations to understand the impact of these limitations on your transitioned volumes.

[7-Mode Transition Tool 2.1 Data and Configuration Transition Guide](#)

## Known limitations

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Known limitations identify platforms, devices, or functions that are not supported by this release of the product, or that do not interoperate correctly with it. Review these limitations carefully.

### **Post-transition limitations**

You cannot restore virtual machines from SnapManager for Hyper-V Snapshot copies after you use the 7-Mode Transition Tool to transition them from 7-Mode to clustered Data ONTAP. However, you can back up and restore virtual machines from the new Snapshot copies created after transition.

### **Application-consistent backup on NAS storage**

Creating an application-consistent backup of a virtual machine (VM) that is stored on NAS storage is not supported by Microsoft Hyper-V Server 2012. This limitation does not apply to crash-consistent backups and Microsoft Hyper-V Server 2012 R2.

### **Virtual switch name**

The virtual switch name for a VM must be exactly the same for the primary and secondary Windows hosts.

### **SMB 3.0**

Backup and restore operations require a FlexClone license when Hyper-V VMs are deployed over SMB 3.0.

### **SVM disaster recovery**

Storage Virtual Machine (SVM) disaster recovery (SVM DR) is supported in clustered Data ONTAP 8.3.1. If you use SnapManager for Hyper-V to manage volumes or LUNs, or SMB shares in an SVM and the SVM is configured for disaster recovery, then SnapManager is not supported in this configuration.

## Known issues

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Known issues identify problems that might prevent you from using this release of the product successfully. NetApp Bugs Online provides complete information for most known issues, including any workarounds.

[NetApp Bugs Online](#)

If a Bugs Online report is available, the bug ID contains a hyperlink to the report.

### Known issues identified in this release

The following issues have been added to the release notes since the previous release:

| Bug ID                 | Description                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">902132</a> | Restore with Snapshot copy verification operation fails for the crash-consistent backups that are transitioned from 7-Mode to clustered Data ONTAP. |

### Known issues identified in previous releases

The following issues were reported in previous editions of the release notes:

| Bug ID                 | Description                                                                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">852960</a> | Unable to delete a Snapshot copy using the SnapManager for Hyper-V retention policy because of credential errors.                                                  |
| <a href="#">852183</a> | A warning message for a VHD mismatch appears during a restore operation of an application-consistent backup for VMs with checkpoints.                              |
| <a href="#">850576</a> | Restore operations from crash-consistent backups fail with a “VM could not be realized due to errors in its configuration file which could not be resolved” error. |
| <a href="#">799219</a> | Disaster recovery restore from a crash-consistent backup of a VM with Hyper-V Manager Snapshot copies fails on non-English-language systems.                       |
| <a href="#">795389</a> | Unable to restart virtual machine with a shared VHDX after restoring from an application-consistent backup.                                                        |
| <a href="#">794538</a> | Unable to restore a virtual machine with a shared VHDX from a crash-consistent backup.                                                                             |
| <a href="#">794535</a> | Failed to restart virtual machine after restoring from crash-consistent backup.                                                                                    |
| <a href="#">787653</a> | Volume and qtree security styles must be NTFS for NAS application-consistent backups for SnapManager for Hyper-V versions 2.0.2 and 2.0.3.                         |
| <a href="#">727548</a> | The installation wizard lacks a service account type in the credentials form.                                                                                      |
| <a href="#">758197</a> | Restore of SnapManager 2.0.2 for Hyper-V backup fails for NAS VM when the volume or qtree has non-NTFS security.                                                   |

## Where to get help and find more information

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The NetApp Support Site provides access to troubleshooting tools, product documentation, and technical assistance. You can use NetApp Community forums to connect with peers, and the NetApp Library to access technical reports and white papers.

- [\*NetApp Support\*](#)  
Access troubleshooting tools, product documentation, and technical support assistance.
- [\*NetApp Communities\*](#)  
Connect with peers, ask questions, exchange ideas, find resources, and share best practices.
- [\*NetApp library of technical reports and white papers\*](#)  
Access technical reports, white papers, and other documents.

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