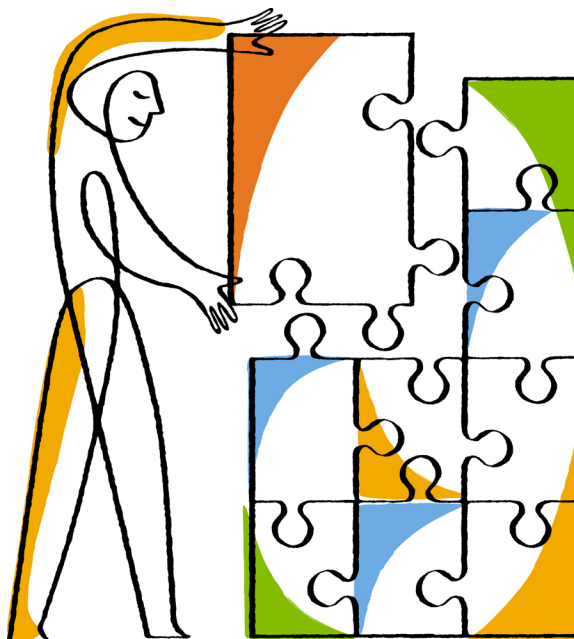




SnapManager® 2.0.1 for Hyper-V®

Release Notes



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What SnapManager for Hyper-V is

SnapManager for Hyper-V provides 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

New features in SnapManager 2.0.1 for Hyper-V

SnapManager 2.0.1 for Hyper-V includes the following enhancements:

- Bug fixes

Note: You must have SnapDrive 7.0.1 for Windows installed to upgrade to or install SnapManager 2.0.1 for Hyper-V.

New features in SnapManager 2.0 for Hyper-V

SnapManager 2.0 for Hyper-V included the following enhancements:

- Native SnapVault integration
- Support for both local (SAN) and remote VSS hardware providers (SMB 3.0) for backup
- Remote host installation
- SnapInfo Settings now support cluster-shared volume 2.0 (CSV) and SMB 3.0 shares
- Cmdlet reference information moved from the Installation and Administration Guide to the new Cmdlet Reference Guide
- New Manage Storage Connection Settings form
 - A new Update all nodes option has been added in the Manage Storage Connection Settings wizard
This updates storage connections to all nodes in a cluster. You must run this when you add a new node to a cluster
- Support for gMSA (Group Management Service Account)
- Ability to restore to an alternate path for disaster recovery
- Ability to restore a deleted VM from a crash-consistent backup (on Windows Server 2012 only)

Changed features in SnapManager 2.0 for Hyper-V

SnapManager 2.0 for Hyper-V included the following changed features:

- The Add Host functionality has been expanded into a full wizard
- The Backup Management wizard and the Policy Management wizard have been updated to include the **Update to SnapMirror/SnapVault** option on the Backup options page.
- Restore-backup has 3 new parameters for restoring to an alternate location: - VirtualMachinePath, -SnapShotFilePath, and -VHDs

New cmdlets in SnapManager 2.0 for Hyper-V

SnapManager 2.0 for Hyper-V included the following new cmdlets:

- Add-SMHVDataSet

- Add-SMHVHost
- Add-SMHVPolicy
- Get-SMHVDataSet
- Get-SMHVHost
- Get-SMHVPolicy
- Invoke-SMHVConfigureHost
- Invoke-SMHVRemoteHostInstall
- Invoke-SMHVRemoteHostUninstall
- Remove-SMHVDataSet
- Remove-SMHVHost
- Remove-SMHVPolicy
- Set-SMHVDataSet
- Set-SMHVPolicy

Upgrade notes

Upgrade notes describe new requirements for SnapManager 2.0.1 for Hyper-V. They also describe any changes in support between the last release of SnapManager for Hyper-V and this one, including any deprecated features. Review this information carefully before upgrading SnapManager for Hyper-V.

Changes to SnapDrive for Windows requirements

You must have SnapDrive 7.0.1 for Windows installed to upgrade to or install SnapManager 2.0.1 for Hyper-V.

Known limitations

Known limitations identify platforms, devices, or functions that are not supported by SnapManager 2.0.1 for Hyper-V and which you should review carefully.

Application-consistent backup on NAS storage

Making 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.

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 require a FlexClone license when Hyper-V VMs are deployed over SMB 3.0.

Qualifying your configuration in the IMT

You can use the NetApp Interoperability Matrix (IMT) to verify SnapManager for Hyper-V support for your configuration: Data ONTAP software, host operating system, and the like. You should qualify your configuration before you install or upgrade to SnapManager 2.0.1 for Hyper-V.

Steps

1. Go to support.netapp.com/matrix.
2. If SnapManager for Hyper-V is not the selected Storage Solution, click **Change** and select it under the Software> Management software> Server Suite category.
3. In the **Component Explorer** pane, select each component you want to qualify. After you make a selection, you are prompted to add the component to the worksheet. Click **Add**.

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

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

The Interoperability Matrix lists each supported configuration.

Note: Click **Feedback** in the upper right corner of the IMT if no results are returned for your configuration.

5. 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.

Known issues

Some behaviors are known to affect functionality in SnapManager 2.0.1 for Hyper-V. You can use the workarounds provided to manage some of these behaviors.

NetApp Bugs Online provides complete information about most bugs, including any workarounds. If a Bugs Online report is available, the bug ID contains a hyperlink that you can click to view the report.

Known issues identified in this release

The following issues have been added to the release notes since the last release.

Bug ID	Description
758545	Installer error 1316 when local upgrade is done by remote installation
767205	SnapManager for Hyper-V backups fail if the VM configuration or Snapshot copy location does not end in a trailing backslash

Known issues identified in previous releases

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

Bug ID	Description
588902	Higher memory use on SnapInfo owner node during backup
596337	SnapManager for Hyper-V fails to connect to a Hyper-V host
589363	SnapManager for Hyper-V does not automatically move files to a changed SnapInfo location
377102	Import (mount) of snapshot lun for a boot lun fails in Windows Server 2008 R2
622811	Windows installer does not display installer log file
627002	Backup fails with a VSS writer's retryable error when the virtual machine has SnapDrive for Windows (SDW) installed on it, and it has direct attached iSCSI LUNs or pass-through disk.
728935	The SnapManager for Hyper-V MMC might crash in some Windows 2008 R2 configurations
738403	SnapManager for Hyper-V does not load nodes added to the cluster
736356	Validation for restore operation from pre-upgrade backup Snapshot copies returns VHD warning

Bug ID	Description
718709	Application-consistent backup of VM on NAS not supported for Microsoft Hyper-V Server 2012
724664	When the SnapInfo path is unavailable, backup jobs fail with a misleading error message
727548	Installation wizard lacks service account type in the credentials form
677932	Remote installation does not work with x86 client
724663	Error: The device is not ready.
725737	Requirement when adding a new node to a cluster
721657	NAS backups taking a long time, compared to SAN backups
665108	Crash-consistent restore operation fails when the VM directories are renamed or deleted
741068	Create dataset operation fails due to mismatched port number
n/a	Remote installation fails if SnapDrive 7.0.x for Windows is already installed on the host or cluster node Issue: Remotely installing SnapManager for Hyper-V (through the Remote Host Install wizard or the Add Host dialog box) fails if SnapDrive 7.0.x for Windows was manually installed on the target host or cluster node previously. Cause: This issue occurs because the user credentials are incorrectly added to the administrator group of the remote host or cluster node. Manually installing SnapDrive 7.0.x for Windows fails to add your credentials to the administrator group of the remote host or cluster node. To use remote installation, you cannot manually install SnapDrive 7.0.x for Windows on any individual host or cluster node. Corrective action: You can perform one of two workarounds: uninstall SnapDrive 7.0.x for Windows and reinstall it using the Remote Host Install wizard, or manually install SnapManager for Hyper-V on the affected host or cluster node.

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