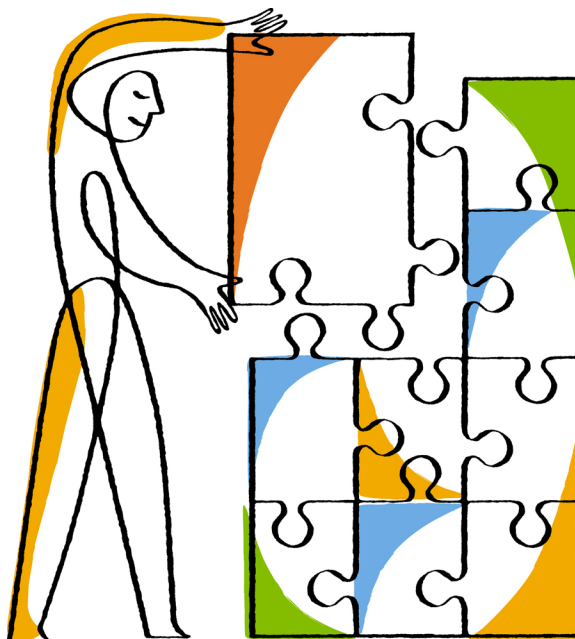




SnapManager[®] 7.1 for Microsoft[®] Exchange Server

Release Notes



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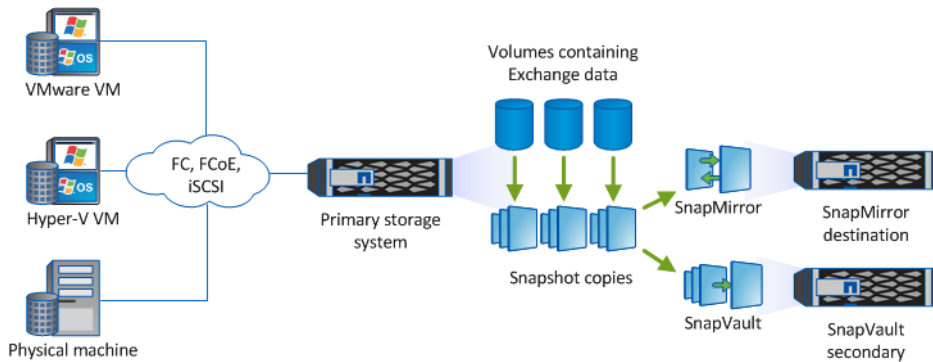
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Product overview

SnapManager for Microsoft Exchange Server is a host-side component of NetApp's integrated storage solution for Microsoft Exchange, offering application-aware primary Snapshot copies of Exchange databases. You can use SnapManager with NetApp's SnapMirror technology to create mirror copies of backup sets on another volume, and with NetApp's SnapVault product to archive backups efficiently to disk.

Together these tools offer a complete Snapshot-based data protection scheme, as scalable, reliable, and highly available as the underlying storage system. The following illustration shows the components in a SnapManager deployment with clustered Data ONTAP:



SnapManager highlights

SnapManager features seamless integration with Microsoft products on the Windows host and with NetApp Snapshot technology on the back end. It offers an easy-to-use, wizard-based administrative interface.

- *Integration with the Microsoft Volume Shadow Copy Service (VSS)* ensures that write requests are frozen and write caches flushed before backups are taken. SnapManager provides full support for Windows Volume Manager, Windows Server Failover Clustering, Microsoft Multipath I/O (MPIO), and Exchange Database Availability Groups.
- *Fast, nondisruptive Snapshot technology* using NetApp's SnapDrive for Windows (SDW) software lets you back up databases in seconds and restore them in minutes without taking Exchange Servers offline. Snapshot copies consume minimal storage space. You can store up to 255 copies per volume.
- *Automated central administration* offers hands-off, worry-free data management. You can schedule routine Exchange Server database backups, configure policy-based backup retention, set up point-in-time and up-to-the-minute restores, and proactively monitor your Exchange Server

environment with periodic email alerts. PowerShell cmdlets are available for easy scripting of backup and restore operations.

In addition to these major features, SnapManager offers the following:

- Integrated Single Mailbox Recovery lets you restore individual mailboxes, email messages or attachments, calendar items, deleted items, drafts, or contacts
- Simplified migration of existing databases to NetApp storage with an easy-to-use Configuration wizard
- Nondisruptive, automated backup verification
- Fast reseeding of databases in a Database Availability Group
- Support for physical and virtualized infrastructures
- Support for iSCSI, Fibre Channel, and FCoE
- Support for service-level Role-Based Access Control (RBAC)

New in this release

SnapManager for Microsoft Exchange Server 7.1 offers support for key features, platforms, and capacities. It also corrects known issues identified in previous releases of SnapManager for Exchange.

Support is now available for the following:

- Exchange Server 2010 and Exchange Server 2013
- Clustered Data ONTAP 8.3
- Native SnapVault integration with clustered Data ONTAP
You can now archive backups to SnapVault secondary volumes running on clustered Data ONTAP.
- Role-Based Access Control (RBAC)
The SnapManager service account can now be a domain user account assigned to a custom management role group. You can assign role entries to roles in any combination. For example, you might want to create a role that gives users permission to execute only a subset of available Exchange Server PowerShell cmdlets.
- DAG reseeding
You can now reseed a passive database copy in a failed state from a health copy on another DAG member. The reseed operation takes the passive database copy that is in a failed state and restores it to the latest local Snapshot copy, placing the passive database copy in a healthy state.
- ASUP tracking of SMBR operations run from SnapManager
Messages tracking SMBR usage are now sent automatically to NetApp when you invoke the **Run SMBR** option on the SnapManager **Restore** menu.
- Metrocluster
- New documentation architecture
 - A new *Installation and Setup Guide* (available for both clustered Data ONTAP and Data ONTAP operating in 7-mode) describes initial tasks you need to perform to deploy SnapManager. Topics include how to install and configure the product, how to migrate an Exchange database to a NetApp storage system, and how to back up, mirror, and archive the database.
 - A new *Administration Guide* replaces the former *Installation and Administration Guide*. This guide describes how to administer SnapManager after deployment is complete. Topics include how to restore the database, how to import configuration information from a control file, how to use the SnapManager Powershell cmdlets, and how to upgrade and uninstall the product.

Related information

[*SnapManager 7.1 for Microsoft Exchange Server Installation and Setup Guide For Clustered Data ONTAP*](#)

[*SnapManager 7.1 for Microsoft Exchange Server Installation and Setup Guide For Data ONTAP Operating in 7-Mode*](#)

[*SnapManager 7.1 for Microsoft Exchange Server Administration Guide*](#)

Upgrade notes

Upgrade notes describe important 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. Make sure to check the NetApp Interoperability Matrix (IMT) for the most up-to-date information about supported configurations.

Supported upgrade path

You can upgrade to SnapManager 7.1 for Exchange from version 6.0.4 and later.

Specify SnapMirror and SnapVault destination volumes before scheduling backup set verification

After installing or upgrading to this release, you must specify SnapMirror and SnapVault destination volumes in the Database Verification Settings dialog box before you can schedule backup set verification on those volumes. In the Database Verification Settings dialog box, click **Verification Server > Verification on Destination Volumes**, then choose the destination volumes.

FlexClone license no longer required for verification of mirrored or vaulted backup sets in most cases

A FlexClone license is no longer required for SnapManager verification of mirrored or vaulted backup sets except when the backup set is replicated to a SnapVault destination on Data ONTAP operating in 7-mode.

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 Exchange (SME) is not the selected Storage Solution, click **Change** and select it under the Application Suite 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**, then click **Next**.
- c. Choose SnapManager for Exchange (SME) in the **Solution** drop-down list, then type your comments and click **Submit**.

New and changed commands

Review these changes to product commands before upgrading to the new release. You need to be sure that the changes will not break any scripts that you use to execute the commands.

<cmdlet or command>	Change
reseed-database	The reseed-database cmdlet lets you reseed a passive database copy in a failed state from a health copy on another DAG member. The reseed operation creates a new copy of the database by replicating the data from the healthy copy.

<cmdlet or command>	Change
restore-backup	A new -SnapVaultSecondary option lets you restore the database from a SnapVault destination. The new option takes an <i>SVM:volume</i> pair.

Fixed issues

It is a good practice to review the known issues fixed in a new release before upgrading to it.

Bug ID	Description
825515	SnapManager service occasionally crashes during transaction log verification.
820596	SnapManager encounters an error during deletion of orphan snapshots.
781564	Passive database restore fails on node level with error VSS_E_WRITERERROR_NONRETRYABLE.

Important cautions

Important cautions identify issues that might cause data loss or system failure. Review these cautions carefully.

Backup verification and point-in-time restore fail on Snapshot copies transitioned from 7-mode to clustered Data ONTAP using the 7-Mode Transition Tool

You cannot perform backup verification and point-in-time (PIT) restore operations using Snapshot copies that reside on LUNs that have been transitioned from 7-mode to clustered Data ONTAP using the 7-Mode Transition Tool. However, you can back up and clone your transitioned Snapshot copies, and then verify and restore from the new Snapshot copies you create.

Limitations associated with this issue include the following:

- Mounting Snapshot copies that have been transitioned from Data ONTAP operating in 7-mode using the 7-Mode Transition Tool for backup verification will fail.
- File-level restoration of 7-mode Snapshot copies is not possible. But because SnapManager for Exchange limits you to using a one database per LUN, file-level restoration is not applicable to SnapManager for Exchange. In addition, the up-to-the-minute (UTM) restore operations will function properly; however, the PIT restore operations will fail.

Managing transitioned LUNs

After transitioning LUNs from 7-mode to clustered Data ONTAP using the 7-Mode Transition Tool, you must perform certain actions before you can use the 7-mode Snapshot copies for backup verification and restore operations.

Before you begin

You should review the 7-Mode Transition Tool capabilities and limitations to understand the impact of these limitations on your transitioned LUNs. See the 7-Mode Transition Tool documentation set.

About this task

Steps

1. Add the clustered Data ONTAP IP address and credentials in the transport settings in SnapDrive.
2. Create iSCSI sessions from SnapDrive to the iSCSI LIFs to identify the LUNs in the clustered Data ONTAP cluster.

3. Mount the databases residing on the LUNs on the Exchange server.
4. Continue with the normal backup operations.

Related information

[7-Mode Transition Tool 2.0 Data and Configuration Transition Guide](#)

Known limitations

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.

Backup verification and PIT restore fail on Snapshot copies transitioned from 7-mode to clustered Data ONTAP using the 7-Mode Transition Tool

- Mounting Snapshot copies that have been transitioned from Data ONTAP operating in 7-mode using the 7-Mode Transition Tool for backup verification will fail.
- File-level restoration of 7-mode Snapshot copies is not possible. But because SnapManager for Exchange limits you to using a one database per LUN, file-level restoration is not applicable to SnapManager for Exchange. In addition, the UTM restore operations will function properly; however, the PIT restore operations will fail.

SnapMirror and SnapVault relationships are not supported on the same clustered Data ONTAP source volume

SnapManager does not support both SnapMirror and SnapVault relationships on the same clustered Data ONTAP source volume. You can create a either SnapMirror relationship or a SnapVault relationship on a source volume, but not both.

Non-NetApp storage is not supported

You cannot use SnapManager to back up and restore Exchange databases stored on non-NetApp systems, except for databases on third-party storage arrays in NetApp V-Series systems.

Restoring to an alternate DAG location is not supported

You cannot restore an Exchange database to an alternate location in a DAG .

Configuring datasets outside member servers of a DAG is not supported

You cannot configure datasets outside the member servers of a DAG.

Deleting backups outside member servers of a DAG is not supported

You cannot delete backups outside the member servers of a DAG.

Exchange cmdlets are not supported in the SnapManager shell

You cannot run Exchange cmdlets from the default SnapManager shell. Run the cmdlets from the Exchange Management shell.

Exchange 5.5, Exchange 2000, and Exchange 2003 are not supported

Exchange 5.5, Exchange 2000, and Exchange 2003 are not supported.

Windows 2000, Windows 2003, and Windows Server 2008 IA-64 are not supported

Windows 2000, Windows 2003, and Windows Server 2008 IA-64 are not supported.

Known issues

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 last release:

Bug ID	Description
863877	Launch the SnapManager for Exchange MMC SnapIn by using the LaunchSME.bat file in the SnapManager installation directory
834913	SnapManager incorrectly moves the SnapInfo directory after Exchange blocks a move of the database and transaction logs because of inadequate RBAC permissions.
804775	SnapManager for Exchange integrated with OnCommand Unified Manager will not support LUNs mounted as both a drive-letter and a mountpoint.

Known issues identified in previous releases

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

Bug ID	Description
795187	SnapManager for Exchange Server incorrectly renames eloginfo__xxx__recent Snapshot copies.
776472	Restore operations in SnapManager for Exchange fail with a database mount error when the Global Catalog is not part of the Domain Controller (DC).
762024	SnapManager for Exchange should be more selective about which transaction log files to copy when restoring a Snapshot copy.
693375	The target LUN in a Snapshot for Exchange copy is inconsistent or does not exist and cannot be deleted when delete-backup is run from SnapManager for Exchange.
665212	SnapManager for Exchange service crashes on the remote verification server when running four or more deferred concurrent verification operations.

Bug ID	Description
653127	Restoring an archived backup copy from SnapManager for Exchange appears to succeed in reports, but it actually fails.
563452	During SnapManager for Exchange DAG-level backups, the backup operation might hang when running backup after the “cluster group” fails over.

Where to get help and find more information

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.

Resource	Description
<i>NetApp Support</i>	Access troubleshooting tools, product documentation, and technical support assistance.
<i>NetApp Communities</i>	Connect with peers, ask questions, exchange ideas, find resources, and share best practices.
<i>NetApp library of technical reports and white papers</i>	Access technical reports, white papers, and other documents.

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You can also contact us in the following ways:

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