



SnapManager® 7.2.1 for Microsoft® Exchange Server

Release Notes

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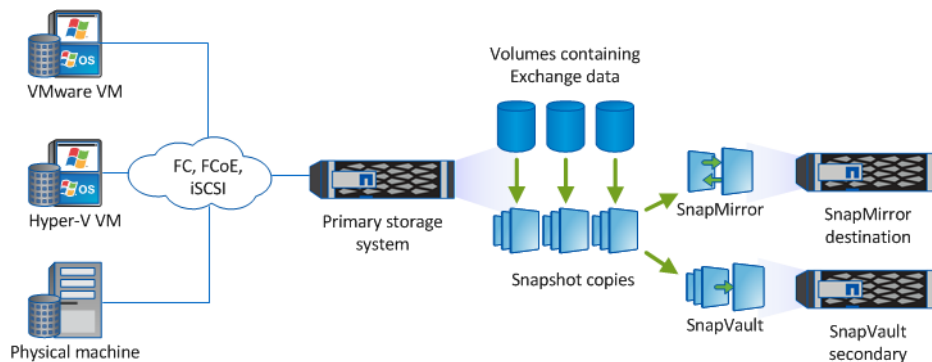
Contents

Product overview	4
New in this release	6
Fixed issues	6
Upgrade notes	7
Important cautions	8
Known limitations	9
Known issues	10
Where to get help and find more information	11
Copyright information	12
Trademark information	13
How to send comments about documentation and receive update notifications	14

Product overview

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

Together these tools offer a complete Snapshot-based data protection scheme that is 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 are flushed before backups are taken. SnapManager supports Windows Volume Manager, Windows Server Failover Clustering, Microsoft Multipath I/O (MPIO), and Exchange Database Availability Groups.
- *Fast, nondisruptive Snapshot technology* using NetApp SnapDrive for Windows software enables you back up databases in seconds and restore them in minutes without taking Exchange Servers or databases 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 restore operations 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 enables you to restore individual mailboxes, email messages or attachments, calendar items, deleted items, drafts, or contacts (Single Mailbox Recovery must be installed separately)
- 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

Starting with the release of SnapManager 7.2.1 for Microsoft Exchange, the installation package includes the SnapDrive 7.1.5P1 for Windows software. You do not need to download a separate installation package for SnapDrive for Windows from the NetApp Support Site. For information about installing or upgrading SnapDrive for Windows, see the product documentation. This release also includes critical bug fixes and support for ONTAP 9.4.

Related information

[*SnapManager 7.2.1 for Microsoft Exchange Server Installation and Setup Guide For Clustered Data ONTAP*](#)

[*SnapManager 7.2.1 for Microsoft Exchange Server Installation and Setup Guide for Data ONTAP operating in 7-Mode*](#)

[*SnapManager 7.2 for Microsoft Exchange Server Administration Guide*](#)

[*SDW 7.1.5 product documentation*](#)

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
1137327	SMEJobLauncher.exe might fail with an exception message when there are too many connections to PowerShell.
983922	Timeout failures occur in SnapManager for Microsoft Exchange Server when Windows BitLocker Drive Encryption is enabled.
969918	The SnapManager for Microsoft Exchange Server backup operation fails when two pipelines run in parallel.
1000365	The PowerShell command with ' ' character cannot be used in remote instances.
997247	The SnapManager for Microsoft Exchange Server backup operation takes hours for marking the subsequent frequent recovery point backups.
964666	SnapManager for Microsoft Exchange Server 7.x triggers separate SnapVault updates for SnapInfo and database logs even if both are on the same LUN.
1001375	The Recovery Storage Group (RSG) operation fails in BitLocker-enabled drives.
1048208	SnapManager for Microsoft Exchange Server does not enumerate all databases in the database availability group (DAG) if there is a standby node in it.
1060870	The up-to-the-minute restore operation might fail with Microsoft Exchange Server 2016 Cumulative Update 4.
1086454	SnapManager for Microsoft Exchange Server 7.2P2 no longer updates SnapVault for SnapInfo on the LUN even if SnapInfo is available on a separate volume.
1051173	SnapManager for Microsoft Exchange Server 7.2 shows Microsoft Exchange 2016 CU2 Database Availability Group (DAG) as standalone.
1049782	SnapManager for Microsoft Exchange Server displays an error message in the event viewer for successful backup operations.

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.

Supported upgrade path

You can upgrade to SnapManager 7.2.1 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, you must click **Verification Server > Verification on Destination Volumes**, and 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.

Important cautions

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

Deferred 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 deferred 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 that 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 deferred verification will fail.
- File-level restoration of 7-Mode Snapshot copies is not possible.
Because SnapManager for Exchange limits you to using 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.

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.

Managing transitioned LUNs

You must perform the following steps after transition from 7-Mode to clustered Data ONTAP, to access your dedicated and shared LUNs.

1. Add the clustered Data ONTAP storage virtual machine (SVM) IP address and credentials in the **Transport Protocol Settings** in SnapDrive.
2. Create iSCSI sessions from SnapDrive to the SVM iSCSI LIFs to identify the LUNs in the clustered Data ONTAP system.
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 3.3 Copy-Based Transition Guide](#)
[7-Mode Transition Tool 3.3 Release Notes](#)

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.

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. You must run the cmdlets from the Exchange Management shell.

Some Exchange versions are not supported

Exchange 5.5, Exchange 2000, Exchange 2003, and Exchange 2007 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.

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 Microsoft Exchange Server to manage volumes or LUNs in an SVM and the SVM is configured for disaster recovery, then SnapManager is not supported in this configuration.

Limitations of Frequent Recovery Point backup (FRP) schedules in an active-active Exchange Windows Microsoft Cluster Server (MSCS)

In a high-availability configuration, SnapManager does not support having a FRP backup schedule for each Exchange instance because you can have only one FRP schedule per instance. If one cluster node fails, the FRP backup configured for the main instance of the surviving node will continue to run because you can have only one FRP task per server called FRPBackup. However, the FRP backup for the failed node will resume after the Windows cluster node is failed back.

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

No known issues have been identified in this release:

Known issues identified in previous releases

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

Bug ID	Description
800122	SnapManager for Microsoft Exchange Server fails with a PowerShell cmdlet error when SnapManager tries to obtain the globally unique identifier (GUID) of the database to restore the database to a Recovery Storage Group (RSG) or replicated database (RDB).
863877	Launch the SnapManager for Exchange MMC SnapIn by using the LaunchSME.bat file in the SnapManager installation directory.
804775	SnapManager for Exchange integrated with OnCommand Unified Manager does not support LUNs mounted as both a drive-letter and a mountpoint.
795187	SnapManager for Exchange Server incorrectly renames eloginfo__xxx__recent Snapshot copies.
697901	When installed on Microsoft Exchange Server 2013, SnapManager for Microsoft Exchange Server 7.0 does not include the SnapManager Microsoft Management Console (MMC) SnapIn in the Start menu.
665212	The SnapManager for Exchange service crashes on the remote verification server when running four or more deferred concurrent verification operations.
653127	Restoring an archived backup copy from SnapManager for Exchange appears to succeed in reports, but it actually fails.
563452	During SnapManager for Exchange Database Availability Group (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.

- [*NetApp Support*](#)
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