IBM Storage Management Pack for Microsoft
System Center Operations Manager (SCOM)
2.8.0

Release Notes

IBM

Contents

Overview

The IBM Storage Management Pack for Microsoft System Center Operations Manager (SCOM) is a set of software modules, or management packs, which allow you to access and monitor IBM storage systems using the host-based Microsoft SCOM interface.

Each individual management pack includes modules for monitoring the storage system's alerts, events, health state, physical components, and logical components. In addition, graphic diagrams show a visual representation of the hierarchy and relationship of selected storage system components, with more detailed information.

You can download the IBM Storage Management Pack for Microsoft SCOM software package at any time from the IBM Fix Central website (www.ibm.com/support/fixcentral).

What's new in 2.8.0

IBM Storage Management Pack for Microsoft System Center Operations Manager 2.8.0 introduces the following new features.

Additional storage system support

IBM Storage Management Pack for Microsoft SCOM 2.8.0 adds additional storage system support for the new FlashSystem 7300 and 9500 models.

Microsoft Windows 2022 support

IBM Storage Management Pack for Microsoft SCOM 2.8.0 adds Microsoft Windows Server 2022 support.

Compatibility and requirements

This section specifies the compatibility and requirements of IBM Storage Management Pack for Microsoft SCOM 2.8.0.

Supported operating systems

The IBM Storage Management Pack for Microsoft SCOM can be installed on any Microsoft Windows or Windows Server operating system that is supported by the Microsoft SCOM version that you are using.

Note: This version of the IBM Storage Management Pack for Microsoft SCOM can be installed on all site servers that run SCOM agents, in addition to the regular installation on the SCOM management server.

- For a complete list of operating systems supported by Microsoft System Center Operations Manager 2012 (including SP1 and R2), see the Microsoft System Center Operations Manager 2012 technical information website (technet.microsoft.com/en-us/library/hh205990.aspx).

Supported storage systems

IBM Storage Management Pack for Microsoft SCOM 2.8.0 supports different IBM storage systems, as listed in the following table.

Important: The IBM Storage Management Pack for Microsoft SCOM can detect the following IBM storage systems over IPv4 connections only.

Storage system	Microcode version	Compatibility note
IBM FlashSystem® A9000	12.3.2.b or later	N/A
IBM FlashSystem A9000R	12.3.2.b or later	N/A
IBM XIV® Storage System	11.6.2.x	N/A
IBM Spectrum Accelerate	11.5.3.c, 11.5.4	N/A
IBM DS8880	8.3, 8.4	N/A
IBM SAN Volume Controller	7.8, 8.2.x, 8.3.x, 8.4.x, 8.5.0.0	N/A
IBM Storwize® V3500	7.8.1	N/A
IBM Storwize V3700	7.8.1	N/A
IBM Storwize V5000	7.8, 8.1, 8.2.1, 8.3.1	N/A
IBM Storwize V5000E	8.3.1, 8.4.x	N/A
IBM Storwize V5100	8.4.x	N/A
IBM Storwize V7000	7.8, 8.1, 8.2.x, 8.3.1, 8.4.x	N/A
IBM FlashSystem V9000	7.8, 8.1, 8.2.1	N/A
IBM FlashSystem 5000	8.3.1, 8.4.x	
IBM FlashSystem 5100	8.2.1, 8.3.x, 8.4.x	N/A
IBM FlashSystem 5200	8.4.0.1 or later, 8.5.0.0	N/A
IBM FlashSystem 7200	8.3.1, 8.4.x	N/A
IBM FlashSystem 7300	8.5.0.0	N/A
IBM FlashSystem 9100	8.2.x, 8.3.1, 8.4.x	N/A

Storage system	Microcode version	Compatibility note
IBM FlashSystem 9200	8.3.1, 8.4.x	N/A
IBM FlashSystem 9500	8.5.0.0	N/A

Note: Newer microcode versions may also be compatible. When a newer microcode version becomes available, refer to the Lifecycle and support matrix page in IBM Documentation to check whether the new microcode version is also supported.

⚠️ **Attention:** Although the proxy DS8000® CIM agent supports IBM DS8000, IBM DS6000™, and IBM Enterprise Storage Server® (ESS) systems, the DS6000 and ESS systems are not supported by the IBM Storage Management Pack for Microsoft SCOM.

Required software on the host

Prior to installing the IBM Storage Management Pack for Microsoft SCOM, one of the following Microsoft SCOM versions must be installed on the host system.

- Microsoft System Center Operations Manager 2012
- Microsoft System Center Operations Manager 2012 SP1
- Microsoft System Center Operations Manager 2012 R2
- Microsoft System Center Operations Manager 2016
- Microsoft System Center Operations Manager 2019

Note: Newer supported versions may also be compatible. Refer to the Lifecycle and support matrix in IBM Documentation to see the latest supported versions.

Change log

This section summarizes the changes made in different version releases of the IBM Storage Management Pack for Microsoft SCOM.

2.8.0 (February 2022)

IBM Storage Management Pack for Microsoft System Center Operations Manager 2.8.0 adds support for the following:

- Microsoft Windows Server 2022
- IBM FlashSystem 7300 and IBM FlashSystem 9500 storage systems

2.7.0 (December 2017)

IBM Storage Management Pack for Microsoft System Center Operations Manager 2.7.0 added support for Microsoft System Center Operations Manager 2016 and the following storage system releases:

- IBM FlashSystem A9000 12.0.x, 12.1.x, and 12.2.x
- IBM FlashSystem A9000R 12.0.x, 12.1.x, and 12.2.x
- IBM Storwize V3500 7.8 and 8.1.x
- IBM Storwize V3700 7.8 and 8.1.x
- IBM Storwize V5000 7.8 and 8.1.x
- IBM Storwize V7000 7.8 and 8.1.x
- IBM SAN Volume Controller 7.8 and 8.1.x
- IBM FlashSystem V9000 7.8 and 8.1.x
- IBM DS8880 8.2 and 8.3

This version also included the following enhancement:

Ticket ID	Description
SCOM-261272	**Enhancement**: The following properties have been added to the IBM Storage Management Pack for Microsoft System Center Operations Manager user interface for the IBM Spectrum Virtualize Family management pack to make it easier to distinguish between different IBM Spectrum Virtualize Family storage systems being managed: • **code_level:** The software release version on the storage system being managed. • **product_name:** The IBM product name of the storage system being managed.

2.6.0 (August 2016)

IBM Storage Management Pack for Microsoft System Center Operations Manager 2.6.0 added support for IBM FlashSystem V9000 7.7 and included the following enhancement.

Ticket ID	Description
SCOM-261263	**Enhancement**: The former IBM SAN Volume Controller and Storwize series management packs have been combined into one IBM Spectrum Virtualize Family management pack, which also includes support for IBM FlashSystem V9000.

2.5.0 (June 2016)

IBM Storage Management Pack for Microsoft System Center Operations Manager 2.5.0 added support for the following storage system releases:

- IBM FlashSystem A9000 12.0.1
- IBM FlashSystem A9000R 12.0.1
- IBM Storwize V3500 7.7
- IBM Storwize V3700 7.7
- IBM Storwize V5000 7.7
- IBM Storwize V7000 7.7
- IBM SAN Volume Controller 7.7

Additional fix in this version:

Ticket ID	Description
SCOM-261255	**Fixed**: SCOM could not connect to XIV or Spectrum Accelerate using LDAP.

2.4.0 (June 2015)

IBM Storage Management Pack for Microsoft System Center Operations Manager 2.4.0 added support for the following storage system releases:

- IBM Storwize V3500 7.5
- IBM Storwize V3700 7.5
- IBM Storwize V5000 7.5
- IBM Storwize V7000 7.5
- IBM SAN Volume Controller 7.5
- IBM XIV Storage System 11.6.x
- IBM Spectrum Accelerate 11.5.0.b

Additional enhancements and fix in this version:

Ticket ID	Description
SCOM-261245	**Enhancement**: Minimal VVOL support added for IBM Storwize V3500 7.5, IBM Storwize V3700 7.5, IBM Storwize V5000 7.5, IBM Storwize V7000 7.5, and IBM SAN Volume Controller 7.5.
SCOM-261244	**Enhancement**: Minimal VVOL support and compression visibility support added for IBM XIV Storage System 11.6.x.
SCOM-261242	**Fixed**: The status of the SAN Volume Controller iSCSI port or Storwize iSCSI port is incorrect if the port is configured and the state of the link is not active.

2.3.0 (December 2014)

IBM Storage Management Pack for Microsoft System Center Operations Manager 2.3.0 added support for the XIV multi-tenancy feature, which applies only to XIV microcode version 11.5 or later (non-domain users have access only when the access policy is set to "Open").

Additional fixes in this version:

Ticket ID	Description
SCOM-261162	**Fixed**: For SAN Volume Controller and Storwize systems, cluster monitoring is dependent on FlashCopy® consistency group unit monitoring, while single system monitoring is dependent on array unit monitoring. If either of the required unit monitoring is not used, the cluster or system monitoring returns to the uninitialized state.
SCOM-261241	**Fixed**: Updated the IBM Storage Solutions External Runtime Components (previously named "XPyV") to version 1.4.4 to resolve man-in-the-middle (MITM) security attacks.

2.2.1 (June 2014)

IBM Storage Management Pack for Microsoft System Center Operations Manager 2.2.1 resolved the following critical issue.

Ticket ID	Description
SCOM-261210	**Fixed**: OpenSSL security vulnerability (also known as the Heartbleed bug) could have an impact on the connection to storage systems. Version 2.2.1 uses OpenSSL 1.0.1h, which resolves this security issue.

2.2.0 (December 2013)

IBM Storage Management Pack for Microsoft System Center Operations Manager 2.2.0 added support for the following storage systems:

• IBM Storwize V5000

• IBM Storwize V7000 Unified

IBM Storage Management Pack for Microsoft SCOM 2.2.0 also added support for newer microcode versions of the previously supported storage systems (see "Supported storage systems" on page 5), and for:

• Microsoft Windows Server 2012 R2

• Microsoft System Center Operations Manager 2012 R2

Additional fix in this version:

Ticket ID	Description
SCOM-261154	**Fixed**: For XIV storage systems, only one volume is displayed as a logical component in SCOM if there are two or more volumes that share the same name with different uppercase and lowercase letters.

2.1.0 (July 2013)

IBM Storage Management Pack for Microsoft System Center Operations Manager 2.1.0 added support for the IBM Storwize V3700 and IBM Storwize V3500 storage systems and for newer microcode versions of the already supported storage systems.

Additional enhancements and fixes in this version:

Ticket ID	Description
SCOM-249670	**Enhancement**: Only active alerts are provided in the alerts view. Closed alerts are filtered out.
SCOM-255587	**Enhancement**: Support for device type renaming.

Ticket ID	Description
SCOM-255882	**Enhancement**: IBM Hyper-Scale Mobility (online volume migration) operations can now be monitored for XIV systems of microcode 11.3 or later.
SCOM-238291	**Fixed**: When the IBM Storage Management Pack is installed on a SCOM agent and the connected storage system has a large amount of volumes (about 300 volumes per storage system), the discovery data package may exceed the SCOM size limit (4MB).
SCOM-242651	**Fixed**: XIV remote mirroring information cannot be viewed from SCOM if the user account is not defined on the XIV storage system as a storage administrator.

Note: If you are upgrading to version 2.1.0 by installing it over version 1.1.1, run the `upgrade_config.cmd` CLI utility after version 2.1.0 is installed. For more information, refer to the user guide.

Known issues

This section details the known issues in IBM Storage Management Pack for Microsoft System Center Operations Manager 2.8.0, along with possible workarounds (if workarounds are available).

Note:

- For comprehensive information about known issues in Microsoft System Center Operations Manager 2012, see the Microsoft System Center Operations Manager 2012 online release notes (technet.microsoft.com/en-us/library/hh561709.aspx).

Ticket ID	Description
SCOM-238811	The detection of DS8000 storage systems stops if volumes on these systems have names with non-ASCII characters. Currently there is no workaround or solution for this limitation (SCOM-238811).
SCOM-260923	In some cases, the monitoring host can not be discovered after a certain IBM management pack is manually deleted and then and imported again. To resolve this issue, delete the same management pack again and then import it again. Alternatively, you can shorten the management pack object discovery interval to 30 seconds or less (for more information, refer to the relevant Microsoft SCOM documentation).
SCOM-261133	After upgrading to the latest version by installing it over version 1.1.0, the configuration that was made with version 1.1.0 is no longer valid. To resolve this issue, run the **upgrade_config.cmd** CLI utility after to the latest version is installed. For more information, refer to the user guide.
SCOM-261147	For SAN Volume Controller and Storwize systems, the same event might be displayed several times under **Events**, each time with a different timestamp. This occurs if the event is reported by the storage system each time with an updated timestamp. This is a design behaviour that might be changed in a future management pack version. Currently there is no workaround or solution for this limitation (SCOM-261147).
SCOM-261151	Physical drives with an empty enclosure ID are not displayed for Storwize V3500 or Storwize V3700 systems. Currently there is no workaround or solution for this limitation (SCOM-261151).
SCOM-261196	XIV volume information is not updated after the volume is migrated to another storage pool. To resolve this issue, remove the XIV storage system and then add it again by using the **scomu.cmd** utility.

Ticket ID	Description
SCOM-261197	Information regarding the relationship between FlashCopy consistency group and FlashCopy mapping is not updated for Storwize systems.
	Currently there is no workaround or solution for this limitation (SCOM-261197).
SCOM-261198	For IBM Flex System® systems, only the target volume is displayed in the FlashCopy mapping relationship list.
	Currently there is no workaround or solution for this limitation (SCOM-261198).
SCOM-261200	The IBM Storage Management Pack only works when the SCOM Root Management Server (RMS) and SCOM agents reside in the same domain.
	Currently there is no other workaround or solution for this limitation (SCOM-261200).
SCOM-261238	The digital signature cannot be verified in Windows 2008.
SCOM-261243	The ID and System Name of the system are showing as the same value in the web console.

Related information and publications

You can find additional information and publications related to the IBM Storage Management Pack for Microsoft SCOM on the following information sources.

- IBM Storwize V3500 in IBM Documentation (ibm.com/docs/en/v3500)
- IBM Storwize V3700 in IBM Documentation (ibm.com/docs/en/v3700)
- IBM FlashSystem 5200, 5000, 5100, Storwize V5100 and V5000E in IBM Documentation (ibm.com/docs/en/flashsystem-5x00)
- IBM FlashSystem 7200 and Storwize V7000 in IBM Documentation (ibm.com/docs/en/flashsystem-7x00)
- IBM Storwize V7000 Unified in IBM Documentation (ibm.com/docs/en/flashsystem-v7000u)
- IBM SAN Volume Controller (2145 and 2147) in IBM Documentation (ibm.com/docs/en/sanvolumecontroller)
- IBM DS8880 in IBM Documentation (ibm.com/docs/en/ds8880)
- IBM XIV Storage System in IBM Documentation (ibm.com/docs/en/xiv-storage-system)
- IBM Spectrum Accelerate in IBM Documentation (ibm.com/docs/en/spectrum-accelerate)
- IBM FlashSystem A9000 in IBM Documentation (ibm.com/docs/en/flashsystem-a9000)
- IBM FlashSystem A9000R in IBM Documentation (ibm.com/docs/en/flashsystem-a9000r)
- Microsoft System Center website (www.microsoft.com/en-us/system-center)
- Microsoft System Center Technical Resources website (technet.microsoft.com/en-us/systemcenter)

Getting information, help, and service

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