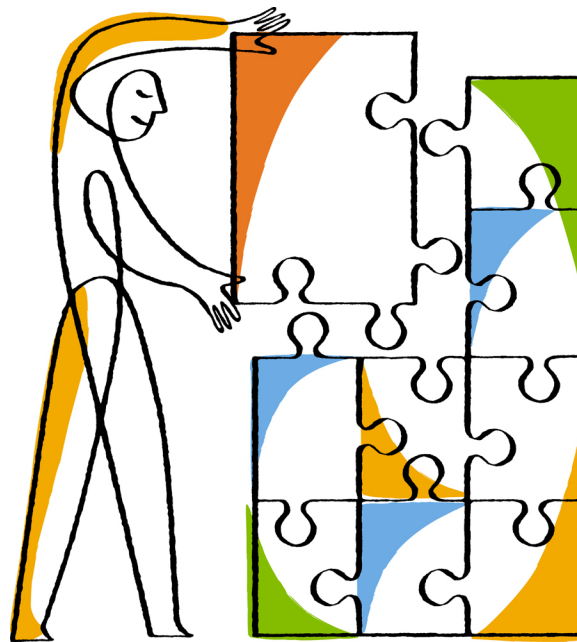




NetApp®

OnCommand® Plug-in 4.1.1 for Microsoft®

Release Notes



NetApp, Inc.
495 East Java Drive
Sunnyvale, CA 94089
U.S.

Telephone: +1 (408) 822-6000
Fax: +1 (408) 822-4501
Support telephone: +1 (888) 463-8277
Web: www.netapp.com
Feedback: doccomments@netapp.com

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Product overview

You can use OnCommand Plug-in for Microsoft to configure, monitor, and maintain your storage. The plug-in includes management packs for Microsoft System Center Operations Manager (SCOM) 2012, PowerShell cmdlets, and System Center Orchestrator integration packs (OIPs) that you can use to provision, clone, and recover Microsoft Hyper-V virtual machines.

New in this release

OnCommand Plug-in 4.1.1 for Microsoft includes support for Data ONTAP 8.3.1, performance improvements, and bug fixes.

- Support for Data ONTAP 8.3.1
- Support for 2-node MetroCluster configurations
- Performance improvements
- Bug fixes

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
829268	The storage-shelf-environment-list-info ZAPI reports power supplies as not installed for 2-PSU systems.
832322	Error event ID 22406 PowerShell script failed with exception.
852506	Performance improvements were made in OnCommand Plug-in for Microsoft 4.1.1 to reduce CPU demand on SCOM Management Servers
899056	Cannot add diagnostic and/or recovery tasks for 7-Mode Data ONTAP Monitors.

Upgrade notes

Upgrade notes describe important changes in support between the last release of OnCommand Plug-in for Microsoft and this one, including any deprecated features. You should review this information carefully before upgrading OnCommand Plug-in for Microsoft. You should also check the NetApp Interoperability Matrix (IMT) for the most up-to-date information on supported configurations.

Supported upgrade path

You can perform an in-place upgrade of OnCommand® Plug-in 4.1.1 for Microsoft® from version 4.0.1 and later.

If you are upgrading from versions prior to 4.0.1, you must first uninstall the existing version before installing 4.1.1.

Before upgrading from 4.1 to 4.1.1, you must uninstall any management packs that include user-created overrides to OnCommand Plug-in for Microsoft management packs.

During the upgrade, all management packs from 4.1 are uninstalled, and the management packs from 4.1.1 are installed. This removes all customer-created overrides. Additionally, any management packs that contain dependencies on user-created management packs with overrides are blocked from the uninstall process and fail.

Upgrade must be performed on the same management server as the original installation

If your SCOM environment contains multiple management servers in a management pool, you selected a specific server and were prompted to push the installation to the other servers during the original installation of OnCommand Plug-in for Microsoft.

When upgrading OnCommand Plug-in for Microsoft to 4.1.1, you must install the upgrade on the same management server as was used for the original installation of OnCommand Plug-in for Microsoft.

Post upgrade conditions

After you upgrade from an earlier supported version of OnCommand Plug-in for Microsoft, be aware of the following conditions:

- Clear cache if OnCommand Plug-in for Microsoft workflows are not running as expected.
After upgrading to or installing OnCommand Plug-in for Microsoft 4.1.1, if you notice that the workflows are not running as expected (for example, storage objects are not being discovered and monitored), then run “Flush Health Service State and Cache” for all of the management servers included in the OnCommand Plug-in for Microsoft resource pool.
- Increase data file size and transaction log file size.
When upgrading from an earlier supported version, you must manually increase the OnCommand Plug-in for Microsoft database data file size and transaction log file size. In addition, if you notice that the database is getting full, you must add more data files or increase the size. For better performance of the OnCommand Plug-in for Microsoft database, it is recommended to have 50% of the space to be free, similar to how the Operations Manager database is handled.
- If experiencing an adverse reaction due to a Data ONTAP 8.3.1 performance enhancement that was intended to improve discovery time, you can disable this feature.
Data ONTAP 8.3.1 contains a feature intended to improve discovery time; this feature avoids downloading specific storage objects information (volumes, qtree, and Single Mailbox shares) if their configuration did not change since last discovery.
If you notice that certain objects or changes to these objects are not discovered for a Data ONTAP 8.3.1 controller, then perform the following steps:
 1. Run `OC.Cluster.OM.ConfigureEffectiveDiscovery.exe`.
 2. Click **Load** to populate current settings from the SCOM database.
 3. Deselect **Effective Discovery** setting.
 4. Save and close.

New profile accounts in this release

The following new Run As profile accounts were added in the 4.1.1 release:

Data ONTAP: Discovery and Monitoring Account

This account profile must have the following privileges:

- Login must be created on the SQL server and mapped to the dbo user for the OCPMDB. Also, **db_owner** permission must be granted on the OCPMDB.
- Member of the local Administrators group.
- Member of the local Performance Monitor Users group.
- **Allow log on locally** permission (SetInteractiveLogonRight) on System Center Operations Manager (SCOM) server. Perform the following steps to set this permission:

1. Open **Local Security Settings**.
 2. In the console tree, click **Security Settings**.
 3. Under Local Policies, select **User rights Assignment**.
 4. Select **Allow log on locally** and add user/group.
- Associated Windows profile. This can be done by logging on to server one time.
 - Public server role on Operations Manager database.
 - The following database role memberships on the Operations Manager database:
 - public
 - dbmodule_users
 - db_datareader
 - db_datawriter
 - db_ddladmin
 - Operations Manager Operator (**SCOM > Administration > Security > User Roles > Operation Manager Operator > Add users**).

Data ONTAP: Discovery and Monitoring Account for Virtualization

This account profile must have the following privileges:

- All permissions the same as Custom Discovery and Monitoring Account.
- Member of local administrators group on Hyper-V hosts being monitored.

Data ONTAP: Maintenance Account

This account profile must have all permissions the same as Custom Discovery and Monitoring Account.

Related information

[Microsoft TechNet: System Center 2012 Operations - How and When to Clear the Cache](#)

Verifying support for your configuration in the Interoperability Matrix

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 OnCommand Plug-in for Microsoft is not the selected Storage Solution, click **Change**, and then select it under the Server 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**, and then click **Next**.
- c. Choose OnCommand Plug-in for Microsoft in the **Solution** drop-down list, and then type your comments and click **Submit**.

Important cautions

Important cautions identify issues that might cause data loss or system failure. You should review these cautions carefully.

Running virtualization discovery

After you complete a MetroCluster switchover operation, you must run discovery on your clustered Data ONTAP systems prior to running virtualization discovery.

Minimum RSA certificate key length required in Windows

If the NetApp storage controller uses a certificate with an RSA key length less than 1024 bits, the length must be updated to meet the minimum requirements for certificates; the RSA key must be at least 1024 bits long. This affects Windows Server 2008 R2.

Clustered Data ONTAP MetroCluster health check disabled by default

The clustered Data ONTAP MetroCluster health check features (`Cluster.MetroCluster.Health` and `Cluster.MetroCluster.HealthMonitor`) are disabled by default.

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.

Unsupported functionality

The following functionality is not supported in this release:

- Discovery and monitoring of SMB home-directory or home-directory shares
- Clustered Data ONTAP MetroCluster configurations: SwitchBack Effect Monitor is not functioning

Remote cloning limitations (7-Mode only)

Note the following limitations to remotely cloning templates:

- A non-HA VM template can be cloned only from stand-alone to remote or to local stand-alone.
- An HA VM template can be cloned only from cluster to remote or to local cluster.

Monitor timeout and interval values in a large configuration

In a large configuration with many storage objects, you must configure the timeout and interval values of the rules. You must override and increase the timeout and interval values of the rules to avoid a timeout occurring or monitoring scripts being dropped. You should monitor the Operations Manager event logs for script timeout issues.

SNMP v3 cannot be used to discover hosts with SCOM MP operating in 7-Mode

By default, SCOM MP uses only SNMP v1 or v2 for network discovery, and the plug-in uses the network discovery built into SCOM. If you are using SNMP v3 and attempt to add a controller using SCOM, discovery does not find the host and the controller is not added.

ASUP reports on the clones created by OnCommand Plug-in for Microsoft

Because ASUP only works at the cluster level, to see the ASUP message for the Storage Virtual Machine (SVM), you must add the SVM parent cluster to the OnCommand Plug-in for Microsoft database.

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
823846	On System Center Operations Manager (SCOM) 2012, if the device is discovered as SNMPv2, the SNMPv1 traps will not be received.
854154	Unable to connect to controllers when adding storage controller credentials or not all workflows run in System Center Operations Manager.
930322	If any servers are configured to be outside of the OnCommand Plug-in for Microsoft resource pool, the OnCommand Plug-in for Microsoft Discovery tasks might fail due to a known Microsoft error.
945408	Various views in the SCOM appear to be constantly in the loading process when displaying discovered storage objects.
945921	Cannot manually delete OnCommand DataOntap Shared Library maintenance profile if there is a dependency on the Microsoft.SystemCenter.SecureReferenceOverride management pack.

Known issues identified in previous releases

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

Bug ID	Description
669645	OnCommand Plug-in for Microsoft add-in for SCVMM Console fails to clone to a remote host that has only the SCVMM Console.
689292	OnCommand Plug-in for Microsoft cannot set threshold levels for qtree, such as Critical and Warning, as can be set for aggregates.
707547	Disconnect-OCStorage cmdlet might fail if a LUN is missing the serial number.
725278	Monitors for disconnected ports send alerts and display the health state.
743532	OnCommand Plug-in for Microsoft fails to collect and monitor performance statistics on controllers running Data ONTAP 8.1.3 or later operating in 7-Mode.
745175	Sub LUN Sis clone performance degradation: operation buffer size was reduced in OnCommand Plug-in 4.0 to prevent the Data ONTAP API from hanging.
779161	You cannot add controllers into SCOM after upgrading to OnCommand Plug-in 4.0 operating in 7-Mode.
780178	An incomplete version number is displayed for the integration packs under SCO deployment manager.

Bug ID	Description
<i>785436</i>	The plug-in Volume Available Space reports critical when Space Utilization is at 0% for small volumes in clustered Data ONTAP.
<i>793195</i>	Activating DR vFiler units blocks monitoring of all USED Space counters in SCOM.
<i>813108</i>	Misleading error message when trying to add a 7-Mode storage controller using the Clustered Data ONTAP: Manage Storage System task.
<i>820415</i>	VHD Volume State Monitor does not generate event 25012 when the VHD's volume is offline.
<i>830206</i>	Unable to add controllers into SCOM OnCommand Plug-in 4.0.1 for Microsoft.
<i>863041</i>	OnCommand Plug-in 4.0.1 for Microsoft discovery failed.

Documentation errors

Review these errors and omissions in the published documentation carefully.

List of OnCommand Plug-in for Microsoft permissions needed to discover and monitor in clustered Data ONTAP

The following syntax is incorrect: `security login role create -role ocpm -access readonly -cmddirname "vserver-show"`.

The correct syntax is as follows: `security login role create -role ocpm -access readonly "vserver-show"`.

Adding Data ONTAP storage controller credentials in 7-Mode environments

If you cannot connect to the controller entered into the Manage Storage System, the run-as action account might need to be configured:

1. Add the OnCommand Plug-in for Microsoft Run As Action Account as an administrator on the local host.
2. Change the credentials of the OnCommand Plug-in for Microsoft Run As Action Account to a user with privileges that allow it to run.
The credentials can be edited by navigating SCOM **Administration > Run As Configuration > Accounts > Action Account**.

Adding a clustered Data ONTAP storage system

If you cannot connect to the controller entered into the Manage Storage System, the run-as action account might need to be configured:

1. Add the OnCommand Plug-in for Microsoft Run As Action Account as an administrator on the local host.
2. Change the credentials of the OnCommand Plug-in for Microsoft Run As Action Account to a user with privileges that allow it to run.
The credentials can be edited by navigating SCOM **Administration > Run As Configuration > Accounts > Action Account**.

Additional hardware requirements for installing SCOM management servers

For SCOM management servers that will monitor clustered Data ONTAP systems, it is recommended that in addition to meeting the minimum requirements specified in the *OnCommand Plug-in for Microsoft Installation and Setup Guide For Clustered Data ONTAP*, your management server should have at least 4 vCPUs and 4 GB of additional RAM available for the plug-in.

Errors in the Installation and Setup Guide for clustered Data ONTAP regarding using SNMP for discovery

SNMP is not used for clustered Data ONTAP monitoring. You must supply the name or IP address of the clustered systems for OnCommand Plug-in for Microsoft to discover them. The *OnCommand Plug-in for Microsoft 4.1 for Microsoft Installation and Setup Guide For Clustered Data ONTAP* should contain the following changes:

- The reference to SystemSnmp.Library in the System Center Operations Manager library requirements topic should be removed.

- The SNMP support topic should be deleted.

Related information

[OnCommand Plug-in 4.1 for Microsoft Installation and Setup Guide for Clustered Data ONTAP](#)

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*](#)
Access troubleshooting tools, product documentation, and technical support assistance.
- [*NetApp Communities*](#)
Connect with peers, ask questions, exchange ideas, find resources, and share best practices.
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- NetApp, Inc., 495 East Java Drive, Sunnyvale, CA 94089 U.S.
- Telephone: +1 (408) 822-6000
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