

ApplianceWatch PRO™ 2.1 for Microsoft® System Center Operations Manager **Release Notes**

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New features in ApplianceWatch PRO 2.1

ApplianceWatch PRO offers several new features, as well as reporting and MetroCluster management packs to assist you in monitoring the health of your Data ONTAP storage.

The following new features have been added to ApplianceWatch PRO 2.1:

- Additional PRO Tips for managing virtual machines
- Improved health and monitoring diagnostics
- Reporting management pack so you can view reports on various aspects of your storage
- MetroCluster management pack for assistance during MetroCluster installation and help recovering from failover

In addition to the new features in ApplianceWatch PRO, you can also use the new rapid provisioning and cloning commandlets to utilize Microsoft System Center Virtual Machine Manager applications.

What you can do with ApplianceWatch PRO

ApplianceWatch enables you to manage your NetApp storage using the tools you already have.

You can perform the following tasks with ApplianceWatch PRO 2.1:

- Manage storage using your existing tools
- Monitor all of your NetApp storage systems using one interface
- Simplify data management through integration with Microsoft System Center Operations Manager 2007 R2
- View the hardware and storage layout of all of your NetApp storage systems
- Isolate problems using alerts and Operations Manager Health Explorer
- Monitor the performance of your NetApp storage controllers using different performance metrics
- Configure deduplication and automatic size settings on NetApp flexible volumes
- Launch FilerView from the ApplianceWatch interface
- Connect to DataFabric Manager servers from the ApplianceWatch interface
- Monitor storage availability and capacity of virtual machines running on Microsoft Hyper-V hosts
- Receive Performance and Resource Optimization (PRO) Tips with automatic remediation support
- Generate reports about various aspects of storage performance

ApplianceWatch PRO 2.1 limitations

Some features are not supported in the 2.1 release of ApplianceWatch PRO.

The following features are not supported in this release of ApplianceWatch PRO:

- Traditional volumes
- Data ONTAP GX and Data ONTAP 8.0 Cluster-Mode
- Pass-through disks
- Full support for high availability
- Adding or monitoring vFiler units
- Clusters and cluster shared volumes (for commandlets only)
- Source and destination storage controllers need to be monitored to generate PRO Tips and to view SnapMirror status
- Interacting with NetApp Operations Manager

Known issues

This section contains the known issues for this release of ApplianceWatch PRO.

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Commandlets need to map LUNs to igroups with type hyper_v only

If you use the New-Storage, Connect-Storage, or New-Clone commandlets to map LUNs to igroups with a type other than hyper_v, you will receive an error. This applies only to igroups containing host initiators.

To successfully run LUN mapping to the host initiator task, you must change the igroup type to hyper_v. If you have mapped any other LUNs to igroups with a type other than hyper_v, you must first delete the mappings and then change the type to hyper_v. If you have not mapped any LUNs to igroups with a type other than hyper_v, you can delete the igroup and retry the operation.

PowerShell execution policy set to Allsigned causes New-Clone commandlet to fail

If you use the recommended PowerShell Allsigned execution policy with the New-Clone commandlet, it will fail. You can import the Microsoft System Center Virtual Machine Manager certificate as a Trusted Publisher to avoid this error.

There is a dependency in the SCVMM PowerShell commandlets to retrieve the list of virtual machines. To allow retrieval using the recommended execution policy of Allsigned, you must import the SCVMM certificate. For more information on importing a certificate, see the Microsoft Web site.

Related information

www.microsoft.com

New-Clone commandlet might leave free space

The New-Clone commandlet might leave free space when creating or cloning a new LUN for a virtual machine. If the free space is larger than 8 MB, it shows up in Disk Management.

When you create or clone the LUN, the full space is not used in the partitioning and formatting of the LUN. You can leave the space as it is, and the commandlet still performs correctly.

New-Clone commandlet fails on vFiler units using Data ONTAP versions earlier than 7.3.3

The use of vFiler units is only supported when using Data ONTAP version 7.3.3.

New-Clone commandlet fails to create virtual machine on clustered remote server

Even though cloning is not supported in cluster-shared volume and clustered environments, you do not receive an error immediately. The commandlet executes the operation and then fails when creating the virtual machine.

Running provisioning and cloning commandlets as a user other than built-in administrator

You can avoid running the rapid provisioning and cloning commandlets as the built-in Windows administrator and run them as a user in the Administrators group.

Before you begin

You must have installed the rapid provisioning and cloning commandlets.

Steps

1. Open the Windows **Start** menu.
2. Select **Run** and type `secpol.msc` and click **OK**.
3. From the **Local Security Settings** window, click **Local Policies** and then **Security Options**.
4. Double-click **User Account Control: Run all administrators in Admin Approve Mode**.

5. Select **Disabled** and click **OK**.
6. Close the **Local Security Settings** window.
7. Restart the Windows host.

Result

After you restart the Windows 2008 R2 server, you can run the rapid provisioning and cloning commandlets without being the Windows built-in administrator.

Uninstalling ApplianceWatch PRO when troubleshooting discovery issues

You can cleanly uninstall ApplianceWatch PRO 2.0 or ApplianceWatch 2.1 by deleting all previously installed management packs. The removal of the management packs assists in the discovery troubleshooting process.

Before you begin

You must have installed ApplianceWatch PRO 2.0 or ApplianceWatch 2.1.

Steps

1. Navigate to **SCOM > Administration > Management Packs**.
2. Locate the Data ONTAP management packs and delete them.

Note: System Center Operations Manager might prompt you to remove the default management pack. You can remove it and reinstall it after you have uninstalled ApplianceWatch.
3. Close System Center Operations Manager.
4. Uninstall the ApplianceWatch PRO management packs. For more information, see the *ApplianceWatch PRO 2.1 for Microsoft System Center Operations Manager Installation and Administration Guide*.
5. Reboot the system.
6. To reinstall the default management pack, navigate to **SCOM > Administration > Management Packs > Import Management Packs**.
7. Set the default user by navigating to `C:\Program Files\NetApp\ApplianceWatch PRO`.

Even if you choose not to install ApplianceWatch PRO 2.1, you must perform this step because the management pack is the SCOM default.
8. Reinstall ApplianceWatch PRO 2.1. For more information, see the *ApplianceWatch PRO 2.1 for Microsoft System Center Operations Manager Installation and Administration Guide*.

9. Add the Data ONTAP storage controllers and set credentials. For more information, see the *ApplianceWatch PRO 2.1 for Microsoft System Center Operations Manager Installation and Administration Guide*.

You must set the target type to Management Server for the Data ONTAP settings to appear in the **Actions** pane.

Related information

<http://now.netapp.com/NOW/>

Removing the DeviceControlLibrary assembly after uninstallation

Upon uninstallation, ApplianceWatch PRO 2.1 leaves the DeviceControlLibrary assembly in the Windows Global Assembly Cache (GAC). You can remove this file to clean up after the uninstallation.

Before you begin

You must have uninstalled ApplianceWatch PRO 2.1.

Steps

1. In the Windows Assembly folder, locate **DeviceControlLibrary**.
2. Right-click **DeviceControlLibrary** and select **Uninstall**.

The assembly is removed from the Windows GAC.

PRO discovery rules should run less frequently than monitoring rules

You should not change the default values of discovery rules, but if you do change them, they should run less frequently than the monitoring rules.

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