

SnapManager® 1.2R1 for Virtual Infrastructure

Release Notes

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Release notes

Topics covered

All the information in this document applies to SnapManager® 1.2R1 for Virtual Infrastructure (SnapManager for VI).

Note

The information in this document supersedes the information in all previous documents, including SnapManager 1.0, 1.0.1, 1.0.1R1, and 1.2 for Virtual Infrastructure.

The following topics are covered in these release notes:

- ◆ “Enhanced feature” on page 2
- ◆ “Limitations” on page 2
- ◆ “Fixed Issues” on page 3
- ◆ “Known issues” on page 3
- ◆ “Installation and upgrade information” on page 4
- ◆ “Documentation corrections” on page 10

See the SnapManager 1.2R1 for Virtual Infrastructure NOW pages for additional hardware and software requirements:

<http://now.netapp.com/NOW/cgi-bin/software>

From the software page, navigate to the SnapManager 1.2R1 for Virtual Infrastructure download page.

Guidelines for running VMware® vCenter™ in a virtual machine are not included in the SMVI documentation. See the VMware Web site for the technical note on this subject.

For guidelines on how to use SMVI to back up and recover in a VI environment when vCenter or SMVI is installed on a virtual machine, see *SnapManager 1.0 for Virtual Infrastructure Best Practices* at the following NOW site:

<http://now.netapp.com/NOW/knowledge/docs/docs.cgi>

Enhanced feature

SnapManager 1.2R1 for Virtual Infrastructure includes the following enhancement.

Support for VMware vSphere™ 4: SnapManager 1.2R1 for Virtual Infrastructure introduces support for vCenter servers (formerly called VirtualCenter servers) that run VMware vSphere 4. SMVI continues to support VMware Virtual Infrastructure 3, Update 4 or later.

Support for VirtualCenter server 2.0 has been removed in 1.2R1.

Limitations

SnapManager 1.2R1 for Virtual Infrastructure has the following limitations:

- ◆ It does not support initiating a multipath SnapMirror configuration from a backup.

SMVI 1.2R1 does support a single-path SnapMirror initiation from a backup. If you want to use a multipath SnapMirror configuration along with SMVI, ensure that the SnapMirror process occurs on a frequent schedule from the storage system, and that you do not select the option within SMVI to initiate a SnapMirror process.
- ◆ It does not back up traditional volumes (it backs up FlexVol® volumes).
- ◆ It does not back up or restore RDM (raw device mapping) LUNs or iSCSI LUNs connected to Windows® virtual machines via Microsoft iSCSI Software Initiator.
- ◆ It does not support restoration of a virtual machine to a datastore that was not the virtual machine's container at the time of backup.
- ◆ It does not display newly created VMFS datastores unless the storage system volumes on which those datastores reside are rescanned from the VMware® vCenter server and the SnapManager for VI backup window is refreshed.
- ◆ It does not back up a datastore that has an image that spans multiple volumes.
- ◆ It does not restore a datastore that has been removed from the vCenter server after backup.
- ◆ It does not support multiple SMVI servers providing backup for the same vCenter server.
- ◆ It does not clean up an existing igroup when a LUN is unmounted and reuse it for future mounts.

If there are no mounted backups and there are no VMFS-based virtual machine restore processes running, you can manually delete the igroup.
- ◆ It cannot take VMware snapshots of Windows virtual machines that have iSCSI LUNs connected via Microsoft iSCSI Software Initiator, or NPIV

RDM LUNs. See VMware KB article 1009073 for more details, at the following Web site:

http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1009073

Fixed Issues

SMVI 1.2R1 corrects the following error: SMVI restore jobs on deduplicated (dense) Data ONTAP volumes did not wait for completion of the SFSR operation, causing these jobs to fail when restoring virtual machines from backups.

For a complete list of known issues fixed in SMVI 1.2R1, see the Bugs Online & Release Tools page on the NOW site.

To access this page, follow these steps:

1. From a Web browser, go to the NOW site at <http://now.netapp.com>.
2. In the Technical Assistance & Documentation section, click Bugs Online & Release Tools.

Known issues

This section describes issues known to exist in SMVI 1.2R1. For the latest information about workarounds, see the Bugs Online & Release Tools page on the NOW site.

To access this page, follow these steps:

1. From a Web browser, go to the NOW site at <http://now.netapp.com>.
2. In the Technical Assistance & Documentation section, click Bugs Online & Release Tools.

Using the CLI to restore a virtual machine from a datastore backup without specifying the -esx-server option: When you do not specify this option using the CLI prior to restoring a virtual machine on a VMFS datastore, the virtual machine is not restored, even though the restore process might appear to be completing successfully, because the ESX server name is required.

Upgrading to SnapManager 1.0.1 for Virtual Infrastructure or later, or reinstalling SMVI on Windows 2008 and Windows Vista: When you upgrade to SnapManager for VI 1.0.1 or later, or uninstall it, the SMVI service is modified. Windows 2008 and Windows Vista currently give a system restart

message that you may ignore. After the upgrade is complete, you must stop the SMVI service, configure the administrator credentials for the service, and then restart the service. This process is the same for the initial installation.

Installing SMVI on a virtual machine: When you install SMVI on a virtual machine and then try to back it up, the backups might time out while trying to communicate with the SMVI server. To ensure that this problem does not occur, do the following:

- ◆ Install SMVI on a virtual machine that is not on NetApp storage (on an ESX local disk, for instance).
SMVI only backs up virtual machines that reside on NetApp storage.
- ◆ Install SMVI on a virtual machine that is in a datastore that is not backed up with SVMI.

Installation and upgrade information

You can install SnapManager 1.2R1 for Virtual Infrastructure or upgrade to it from SnapManager 1.0 for Virtual Infrastructure or later. See the *SnapManager 1.0.1 for Virtual Infrastructure Installation and Administration Guide* to review the preinstallation information and ensure that your host system meets the configuration requirements.

You can access the documentation for SnapManager 1.0 for Virtual Infrastructure or later through their respective Description pages at <http://now.netapp.com/NOW/cgi-bin/software>.

Installing SMVI on Windows 2003 and Windows XP: You can install SMVI on host systems running Windows Server 2003 or Windows XP.

To install SMVI on the Windows Server 2003 or Windows XP platform, complete the following steps.

Step	Action
1	Locate and launch the SMVI installation file.
2	Click Yes .
3	Read the licensing agreement and click to accept the terms of the license.
4	Click Next .
5	When the destination folder screen appears, click Next .

Step	Action
6	Choose one of the following setup types: ◆ Full installation (SnapManager for VI server, GUI, and CLI) ◆ GUI and CLI (for remote GUI and CLI installations) ◆ CLI only (for remote CLI installations)
7	After selecting a setup type, click Next .
8	Click Install .
9	Click Yes to add the shortcuts to your desktop.
10	Click Finish .

Installing SnapManager for VI on Windows 2008 and Vista: You can install SMVI on host systems running Windows 2008 or Vista.

Note

To install and enable SMVI on Windows 2008 and Vista systems, you must specifically configure SnapManager for VI to run under administrator or under a user with administrator rights.

To install SMVI on Windows 2008 or Vista systems, complete the following steps.

Step	Action
1	Locate the SMVI installation file.
2	Right-click the SMVI setup icon and select Run as administrator .
3	When the User Account Control dialog box appears, click Allow .
4	Click Next .
5	Read the licensing agreement and click to accept the terms of the license.
6	Click Next .
7	When the destination folder screen appears, click Next .

Step	Action
8	Choose one of the following setup types: ◆ Full installation (SnapManager for VI server, GUI, and CLI) ◆ GUI and CLI (for remote GUI and CLI installations) ◆ CLI only (for remote CLI installations)
9	After selecting a setup type, click Next .
10	Click Install .
11	Click Yes to add the shortcuts to your desktop.
12	Click Finish .
13	Specifically enable SnapManager to run under administrator credentials by clicking the Start button and selecting All Programs > Administrative Tools > Services. Note_____ If you see the User Account Control window prompt for your permission to run the Microsoft Management Console application, select Continue. The Services window lists all Windows services.
14	In the services list, on the right pane, right-click SnapManager VI service and select Stop .
15	After the service is stopped, right-click SnapManager VI service again and select Properties from the menu.
16	In the Properties window, click the Log On tab.
17	When prompted, select the This account log on option.
18	Enter either administrator or the name of the user who is member of administrators group. Note_____ You can also use the Browse button to search for user names.
19	Type the password of the user in the Password box and in the Confirm password box.

Step	Action
20	Click OK . Note _____ If you see a window saying that user has been granted Log On As A Service right, click OK . _____
21	Right-click SnapManager VI service again and select Start . SnapManager for VI is now configured to run with administrator or user with administrator rights credentials.
22	To configure your SnapManager for VI Desktop shortcuts to start SnapManager for VI under administrator-level credentials, minimize all the open windows on your desktop and reconfigure the SnapManager for VI shortcuts on the desktop.
23	On the desktop, right-click the smvi cli shortcut and select Properties .
24	In the shortcut properties window, click Advanced and select the Run as administrator check box.
25	Click OK to close both windows.
26	On the desktop, right-click the smvi gui shortcut and select Properties . This opens the shortcut properties window.
27	In the shortcut properties window, click Advanced and select the Run as administrator check box.
28	Click OK to close both windows.
29	To enable the SnapManager for VI shortcuts in the Start menu to start SnapManager for VI under administrator credentials, select Start > All Programs > .
30	Right-click the smvi cli shortcut and select Properties .
31	In the shortcut properties window, click Advanced and select the Run as administrator check box.
32	Click OK to close both windows.
33	Right-click the smvi gui shortcut and select Properties .

Step	Action
34	In the shortcut properties window, click Advanced and select the Run as administrator check box.
35	Click OK to close both windows.

Your Start menu shortcuts are now configured to start SnapManager for VI under administrator credentials.

Upgrading SMVI on Windows Server 2003 and Windows XP: To upgrade your software to SnapManager for VI 1.2R1 on host systems running Windows Server 2003 or Windows XP, complete the following steps.

Step	Action
1	Close the SMVI CLI and GUI.
2	Ensure that your host meets all system requirements.
3	Complete the download.
4	Locate and launch the SMVI installation file. The SnapManager for VI InstallShield wizard launches.
5	When the upgrade prompt appears, click Yes .
6	Read the licensing agreement and click to accept.
7	To install the SMVI components on your computer, click Next .

Upgrading SMVI on Windows 2008 and Windows Vista: To upgrade your software to SnapManager for VI 1.2R1 on host systems running Windows 2008 or Windows Vista, complete the following steps.

Step	Action
1	Close the SMVI CLI and GUI.
2	Ensure that your host meets all system requirements.
3	Complete the download.
4	Locate and launch the SMVI installation file.

Step	Action
5	Right-click the SMVI setup icon and select the Run as administrator option.
6	When the upgrade prompt appears, click Yes .
7	Read the licensing agreement and click to accept.
8	To install the SMVI components on your computer, click Next .
9	To specifically enable SnapManager to run under administrator credentials, click the Start button and select All Programs > Administrative Tools > Services. Note_____ If you see the User Account Control window prompt for your permission to run the Microsoft Management Console application, select Continue. _____
10	In the services list, on the right, right-click SnapManager VI service and select Stop .
11	After the service is stopped, right-click SnapManager VI service again and select Properties from the menu.
12	In the Properties window, click the Log On tab.
13	When prompted, select the This account log on option.
14	Enter either administrator or the name of the user who is member of administrators group. Note_____ You can also use the Browse button to search for user names. _____
15	Type the password of the user in the Password box and in the Confirm password box.
16	Click OK. Note_____ If you see a window saying that user has been granted Log On As A Service right, click OK. _____

Step	Action
17	Right-click SnapManager VI service again and select Start .

SnapManager for VI is now configured to run with administrator or user with administrator rights credentials.

Documentation corrections

The following information is new and should be added to the *Installation and Administration Guide*.

Access requirements: The SnapManager for Virtual Infrastructure (SMVI) GUI and CLI access the SMVI server on port 8043. The SMVI server accesses the vCenter server on port 443.

Restoring virtual machines that share one datastore folder: If two virtual machines share one datastore folder and you back up one of the machines but later restore it, SnapManager for Virtual Infrastructure tries to restore all files in that folder, consequently overwriting the files of the other virtual machine as well.

Restoring linked clones: If you create several linked clones in the same directory, and then back up the datastore and restore one clone, the other clones are also restored. Note that you can only create linked clones using VMware® Workstation or VMware® Lab Manager and not by using vCenter.

Specifying multiple recipients for alert notifications: You can specify multiple e-mail addresses by entering them in a semicolon-separated list.

Adding a virtual machine after restoring it: After restoring a virtual machine that is not registered to an ESX server, you need to manually re-add it to the datastore inventory and start the virtual machine.

The following information corrects inaccuracies in the current version of the *Installation and Administration Guide*.

SSH connection between SMVI and ESX servers: The *Installation and Administration Guide* states that the SSH connection between the SnapManager for VI server and the ESX servers supports file copying during virtual machine restores of VMFS datastores. Users should note that SMVI can restore virtual machines to ESX servers directly through vCenter Servers (see page 8 of Chapter 1, “SnapManager for VI Introduction”).