



## **Release Notes**

### **SnapCenter Plug-in for VMware vSphere 4.7**

NetApp  
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# Table of Contents

- Release Notes ..... 1
- What's new in this release ..... 2
  - New features ..... 2
  - Fixed issues ..... 2
  - Supported SnapCenter releases ..... 3
- Licensing ..... 4
- Upgrade paths ..... 5
  - For VMs and datastores only ..... 5
  - For virtualized databases and file systems that are integrated with SnapCenter ..... 5
  - If you are using VSC SMVI backups that are not integrated with SnapCenter ..... 6
- Known limitations ..... 7
  - Platforms, devices, or functions not supported ..... 7
  - Guest file restore limitations ..... 8
  - REST API limitations ..... 9
- Known issues ..... 10
  - Known issues identified in this release ..... 10
  - Known issues identified in previous releases ..... 10
- Legal notices ..... 13
  - Copyright ..... 13
  - Trademarks ..... 13
  - Patents ..... 13
  - Privacy policy ..... 13
  - Machine translation ..... 13
  - Open source ..... 13

# Release Notes

Release Notes provide important information about the SnapCenter Plug-in for VMware vSphere 4.7 release, including licensing requirements, known issues, cautions, limitations, and any documentation updates or corrections.

# What's new in this release

## New features

SnapCenter Plug-in for VMware vSphere 4.7 adds the following features:

- VMware vVol restore enhancements
  - You can perform a granular file restore of guest files for vVol VMs on a Microsoft Windows platform.
  - You can attach VMDKs or detach VMDKs from vVol VMs.

For vVol VMs, if you perform an attach operation to a secondary disk, the operation fails when the secondary storage size is smaller than the primary storage size plus 5 GB.

- Support for excluding datastores from spanned disks

In the `scbr.properties` file, you can specify a prefix or suffix to automatically identify datastores to be excluded when backing up spanned disks.

- New Maintenance Console options for MySQL backups

On the main Maintenance Console menu, menu option 1 (Application Configuration) contains new options to configure and list MySQL backups.

- Migration command not supported

The migration command that migrates backup metadata from a Windows-based SnapCenter Plug-in for VMware vSphere to the SnapCenter Plug-in for VMware vSphere appliance is not supported in this release.

To migrate from the Windows-based plug-in, you must be running SnapCenter 4.5 or earlier and SnapCenter Plug-in for VMware vSphere 4.5 or earlier.

- Support for Cloud Manager

To back up datastores and VMs to the cloud using Cloud Backup for VM through Cloud Manager, you must be running SnapCenter Plug-in for VMware vSphere 4.6P1 or later. To back up virtualized VMs, you also must be running SnapCenter 4.6P1 or later.

## Fixed issues

It is a good practice to review the known issues fixed in a release before upgrading to it. If a Bugs Online report is available, the bug ID contains a hyperlink to the report.

Bug ID	Description
1485064	Attaching the virtual machine disks (VMDKs) from secondary location of a Virtual Volume (vVOL) Datastore that is provisioned on the All-Flash FAS (AFF) platform fails.

Bug ID	Description
1492449	Clone operation using SnapCenter plug-in for Oracle database fails in an environment with RDM disks and Logical Volume Manager (LVM) with multiple logical volumes per volume group.
<a href="#">1363263</a>	Replication does not occur if a VM quiesce operation fails. During a backup, if a VM quiesce operation fails for a resource group, then the replication operation fails and the backup completes with a warning.
<a href="#">1374417</a>	Restore shows default account on vCenter recent tasks. During virtual machine restore, the vCenter web client shows the user as vsphere.local\Administrator instead of the user account that initiated the restore operation. But, during backup, the vCenter web client shows the correct account.
<a href="#">1408019</a>	Run As Credential is deleted even if a Proxy Credential is dependent on the Run As Credential file. SCV deletes the Run As Credentials file from the Guest File Restore section of the dashboard. This deletion might occur without validation, which leaves a dangling reference to the deleted Run As Credential file within the Proxy Credential entries. This causes the Guest File Restore attach disk operation wizard to fail to load various tables in the Guest Details section, which blocks the Guest File Restore operation.
<a href="#">1456182</a>	Restore to alternate location operation removes the disk from the source VM
<a href="#">1468604</a>	Backups that are taken between 12:01 HRS to 12:59 HRS show as AM instead of PM in the GUI.

## Supported SnapCenter releases

For the latest information about supported versions, see the [NetApp Interoperability Matrix Tool \(IMT\)](#).

# Licensing

SnapCenter Plug-in for VMware vSphere is a free product if you are using the following storage systems:

- FAS
- AFF
- Cloud Volumes ONTAP
- ONTAP Select

You do not need to purchase the Premium Bundle to use SnapCenter Plug-in for VMware vSphere. However, the SnapRestore license is required for primary destinations for restore, mount, and attach operations.



It is recommended, but not required, that you add SnapCenter Standard licenses to secondary destinations. If SnapCenter Standard licenses are not enabled on secondary systems, you cannot use SnapCenter after performing a failover operation.

# Upgrade paths

## For VMs and datastores only



To migrate data from the Windows-based SnapCenter Plug-in for VMware vSphere to the Linux-based virtual appliance, you must upgrade to SnapCenter Plug-in for VMware vSphere 4.5 and complete your migration before upgrading to SnapCenter Plug-in for VMware vSphere 4.6 or later.

If you are using...	You can do the following...
SCV* 4.6	Upgrade to SCV 4.7
SCV 4.5	Upgrade to SCV 4.6
SCV 4.4x	Upgrade to SCV 4.5
SCV 4.3x	Upgrade to SCV 4.4

\*SCV = SnapCenter Plug-in for VMware vSphere

## For virtualized databases and file systems that are integrated with SnapCenter

### If you are using SnapCenter 4.7

If your VMware plug-in is...	You can do the following...
SCV 4.6	Upgrade to SCV 4.7

### If you are using SnapCenter 4.6

If your VMware plug-in is...	You can do the following...
SCV 4.5	Upgrade to SCV 4.6P1

### If you are using SnapCenter 4.5

If your VMware plug-in is...	You can do the following...
SCV 4.4	Upgrade to SCV 4.5

### If you are using SnapCenter 4.4

If your VMware plug-in is...	You can do the following...
SCV* 4.3.x	Upgrade to SCV 4.4
Windows-based SCV	You must deploy and migrate to SCV 4.4

\*SCV = SnapCenter Plug-in for VMware vSphere

## **If you are using VSC SMVI backups that are not integrated with SnapCenter**

If you are using SnapCenter release 4.0 to 4.5, you must migrate using the NetApp ToolChest: NetApp Import Utility for SnapCenter and Virtual Storage Console.

The NetApp Import Utility for SnapCenter and Virtual Storage Console is not supported by SnapCenter Plug-in for VMware vSphere 4.6 and later.



# 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.

## Platforms, devices, or functions not supported

- Restore for FT-enabled VMs

Restore operations to original or alternate locations are not supported for VMs that are configured as fault tolerant (FT).

- Storage VM disaster recovery

You can restore from a backup but you cannot perform storage VM disaster recovery operations.

- PCI or PCIe devices

The SnapCenter VMware plug-in provides limited support of shared PCI or PCIe devices (for example, NVIDIA Grid GPU) due to a limitation of the virtual machines in supporting Storage vMotion. For more information, see the vendor's document Deployment Guide for VMware.

The SnapCenter VMware plug-in does not support backup operations of PCI or PCIe devices that are accessed from the Guest OS using vSphere Direct Path I/O. Examples of such devices include Nvidia Grid GPUs and sound cards.

- Datastore extents
- Windows dynamic disks
- VMware RUC tool
- NFS

The SnapCenter VMware plug-in does not support NFS 4.1 configured with Kerberos authentication on ESXi and storage.

Although SnapCenter VMware plug-in supports NFS datastores with duplicate NFS IP addresses across multiple storage VMs, the NFS export path in the storage VM must be unique for those datastores. Duplicate NFS LIF addresses are supported.

- pNFS
- VSAN or vVol datastores (SAN and NAS datastores are supported)

The SnapCenter VMware plug-in does not support discovery or backup operations of VSAN datastores, local datastores, other vendor arrays/SDS solutions, or vVol datastores.

- Virtual Machine Templates

The SnapCenter VMware plug-in does not support attach and detach operations for Virtual Machine Templates.

- RDM devices, physical or virtual

The SnapCenter VMware plug-in does not support RDMs for VM backups. If a VM contains RDM LUNs,

those LUNs are skipped during backups. To back up RDM LUNs, you must use a SnapCenter application-based plug-in.

- Datastores that contain only ISO files

To back up datastores that contain only ISO files, you must create a dummy VM in the datastore and then back up that VM.

- Connect disk operations to a LUN without a file

If you attempt a disk connect operation to a LUN that does not contain a file system, the operation fails.

- Virtual machine entities like Independent Persistent Disks or .VSWP files that reside on nonNetApp datastores.
- Adding new iSCSI controllers when all unit numbers are used

When more than 16 iSCSI VMDKs or 64 VMware Paravirtual (PVSCSI) disks are attached to an iSCSI controller, the SnapCenter VMware plug-in cannot locate VMDK unit numbers higher than 15 due to VMware restrictions. In this case, add the iSCSI controllers manually, and then try the attach operation again.

- Mixed management and data LIFs

The SnapCenter VMware plug-in can only manage storage VMs with LIFs that are either management LIFs or data LIFs, but not a mix of both. For example, you cannot add a cluster (specifying a cluster LIF), then backup the cluster, then delete that cluster, and then add a storage VM (specifying a management LIF) that was in the cluster, and then try to restore the storage VM from the cluster backup.

- MetroCluster (MCC)

The SnapCenter VMware plug-in does not support a storage VM DR in an MCC configuration.

- Microsoft Internet Explorer browser version 11

The SnapCenter VMware plug-in provides only limited support for IE 11; not all functions on the user interface are supported. The recommended browsers are Microsoft Edge, Chrome, or Firefox.

- Common base Snapshot copy for relationship cannot be deleted

If you have a resource with a mirror-vault protection policy, you cannot delete a backup on demand when that backup is a common base Snapshot copy for the relationship. ONTAP does not return an error message in this case.

## Guest file restore limitations

- You cannot restore dynamic disk types inside a guest OS.
- If you restore an encrypted file or folder, the encryption attribute is not retained. You cannot restore files or folders to an encrypted folder.
- The Guest File Browse page displays the hidden files and folder, which you cannot filter.
- Restoring from a Linux guest OS is not supported.

You cannot restore files and folders from a VM that is running Linux guest OS. The NetApp Interoperability Matrix Tool (IMT) contains the latest information about supported guest OS.

- Restore operations from an NTFS file system to a FAT file system is not supported.

When you try to restore from NTFS-format to FAT-format, the NTFS security descriptor is not copied because the FAT file system does not support Windows security attributes.  
You cannot restore guest files from a cloned VMDK.

- You cannot restore from secondary backups if the backup was performed on a system running ONTAP 9.2 or later and if the VMware consistency option was on.

## **REST API limitations**

The following operations are not supported by the REST APIs for SnapCenter Plug-in for VMware vSphere:

- Guest file restore
- Deployment and configuration of the virtual appliance
- Assignment of RBAC roles or access to users

# 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

Bug ID	Description
1491844	Secondary disk attachment for Virtual Volumes (vVOL) fails in case of ONTAP All-Flash Fabric Attached Storage (AFF). It works for ONTAP Fabric Attached Storage (FAS).
<a href="#">1413677</a>	SCV does not delete all of VMware snapshots. When the <code>createSnapshot</code> task is a success in VMware but fetching the <code>TaskInfo</code> fails due to a <code>SocketTimeout</code> exception, then SCV marks the <code>createSnapshot</code> task as failed. Because the task is failed, it is not deleted during the unquiesce task, which leaves stale snapshots.
1438333	If you rename a vVol datastore to a name that is different from the backup storage container name, then the error <code>Unable to connect to ONTAP tools for VMware</code> is returned.
1452473	Encrypted VM restore to alternate datastore location failed; SCV job monitor does not show the error.
<a href="#">1466371</a>	vCenter session changed during vCenter Task update and failed with a <code>NotAuthenticated</code> error The NetApp Resource Group Backup task in SCV sometimes gets stuck at 2% in vCenter due to a <code>com.vmware.vijava.vim25.NotAuthenticated</code> exception. The VMware API to update the task info fails with an Authentication error the second time. The first time it works.
1481870	RTAL selection fails when vCenter server not resolving from SCV. The destination vCenter in the Restore To alternate Location field must be DNS resolvable.

## Known issues identified in previous releases

Bug ID	Description
1132385	Japanese characters in directory/file names are replaced with "?????" in SFR email notification.

Bug ID	Description
1186091	Backup operations fail when the vServer password is changed. To change a vServer password, you must update the password for the storage connection in the SnapCenter GUI and then restart the SMcore service on the plug-in.
1319877	FlexGroup datastore backups might fail with the warning: `Unable to quiesce on SCV: Exception occurred when quiescing virtual machines: 96. Please check 'Create virtual machine snapshot' task on vSphere Web Client or SnapCenter Plug-in for VMware vSphere logs for detailed error message. Workaround: For FlexGroup datastore backups, use a backup policy with VM Consistency set to Off.
1320238	Multiple “_recent” Snapshots can occur on secondary storage when a backup is triggered immediately. However, parallel backups of a resource group with the recent setting enabled are not supported.
1371168	Creating / Renaming _recent backup fails when using custom snapshot naming format The custom snapshot naming format must include the resource group and the policy variables, in addition to other variables, to make sure the name is unique.
1433184	SnapCenter Plug-in for VMware vSphere 4.5 and earlier does not work with vCenter 7.0.3 U3.
1450727	The VM storage policy is not retained after a VM restore operation.
N.A.	When you restore a backup of a VM on a Windows 2008 or Windows 2008 R2 system, SnapCenter Plug-in for VMware vSphere does not always remove all snapshot delta disks. During a backup, the vCenter VMware plug-in creates the quiesced VMware snapshot, which results in the creation of snapshot delta disks. However, if you restore the VM, then revert to the VMware snapshot taken during the backup process, and then delete it, not all the delta disk files are deleted. There is no workaround for this issue. You might want to contact VMware support for assistance.

Bug ID	Description
N.A.	<p>VMware Snapshot copies might not be deleted when you back up a resource group that uses a policy in which the VM consistency option is selected and a VMware Snapshot copy fails for one of the VMs in the resource group. This option quiesces the VMs in the resource group before the backup is performed. When a VM Snapshot copy fails, the <code>VMquiesce</code> flag is set to false, which prevents the VMware Snapshot copies from getting deleted. This situation can cause out-of-diskspace conditions.</p> <p>There is no workaround for this issue.</p>
N.A.	<p>You attempted to start a guest file restore session but the request timed out during validation because a VM clone operation was in progress. The error <code>Could not access HTTP invoker remote service at [null]; nested exception is java.net.SocketTimeoutException: Read timed out</code> is returned.</p> <p>This issue is valid for SnapCenter Plug-in for VMware vSphere 4.4 and earlier releases.</p> <p>There is no workaround for this issue. You must wait until the clone operation ends.</p>

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