

SnapCenter Plug-in for VMware vSphere 4.3

Quick Start Guide

For SnapCenter 4.3 and later, the SnapCenter Plug-in for VMware vSphere is deployed as a Linux Appliance (Debian-based Open Virtual Appliance format).

This Quick Start Guide is a condensed set of instructions for deploying and enabling SnapCenter Plug-in for VMware vSphere. The guide is intended for customers who do not have SnapCenter already installed and who want to protect only VMs and datastores.

Preparing for installation | Stage 1

Licensing requirements

The type of licenses you install depends on your environment. See the [SnapCenter Software Release Notes](#) for details about required licenses.

You must provide licenses for...	License requirement
ONTAP	One of these: SnapMirror or SnapVault (for secondary data protection regardless of the type of relationship)
Additional products	vSphere Standard, Enterprise, or Enterprise Plus A vSphere license is required to perform restore operations, which use Storage vMotion. vSphere Essentials or Essentials Plus licenses do not include Storage vMotion.
Primary destinations	To perform application-based protection over VMware SnapCenter Standard To perform protection of VMware VMs and datastores only SnapRestore: used for restore operations FlexClone: used for mount and attach operations
Secondary destinations	To perform application-based protection over VMware SnapCenter Standard: used for failover operations To perform protection of VMware VMs and datastores only FlexClone: used for mount and attach operations
ONTAP	One of these: SnapMirror or SnapVault (for secondary data protection regardless of the type of relationship)

Additional requirements

Storage and applications	Minimum requirements
ONTAP	See the NetApp Interoperability Matrix Tool (IMT)

Hosts	Minimum requirements
Operating System	Linux For the latest information about supported versions, see the NetApp Interoperability Matrix Tool (IMT) .
Minimum CPU count	4 cores
Minimum RAM	Minimum: 12 GB Recommended: 16 GB
Minimum hard drive space for the SnapCenter Plug-in for VMware vSphere, logs, and MySQL database	100 GB

Ports	Preconfigured port
SnapCenter Plug-in for VMware vSphere port	8144 (HTTPS), bidirectional The port is used for communications from the SnapCenter vSphere web client and from the SnapCenter Server. 8080 bidirectional This port is used to manage the virtual appliance. Note: You cannot modify the port configuration.
VMware vSphere vCenter Server port	443 (HTTPS), bidirectional The port is used for communication between the storage VM host for SnapCenter Plug-in for VMware vSphere and vCenter.

Software support	Minimum requirements
vCenter vSphere	Flex client: 6.0U3, 6.5U2/U3, 6.7x, 7.0 HTML5 client: 6.5U2d/U3, 6.7x, 7.0
ESXi	5.5, 6.0 or later
IP addresses	IPv4, IPv6
Java	8
.Net Core	2.1
SnapCenter Plug-in for VMware vSphere repository	MySQL 8.0.16
VMware TLS	1.2

SnapCenter Plug-in for VMware vSphere requirements

- You must deploy SnapCenter Plug-in for VMware vSphere as a Linux VM.
- In environments with multiple vCenter Servers, you must deploy a separate, unique instance of SnapCenter Plug-in for VMware vSphere for each vCenter Server. Each instance must be installed on a separate Linux VM host.

Deploying SnapCenter Plug-in for VMware vSphere | Stage 2

Downloading the SnapCenter Plug-in for VMware vSphere OVA (Open Virtual Appliance)

The `.ova` file includes a set of microservices for VM and datastore data protection, which are performed by SnapCenter Plug-in for VMware vSphere

Attention: The download process does not check for an existing `scv.ova` file. Therefore, before downloading you must make sure no other `scv.ova` file exists on the vCenter.

1. Log in to the NetApp Support Site (<https://mysupport.netapp.com/products/index.html>).
2. From the list of products, select **SnapCenter Plug-in for VMware vSphere**, then click the **DOWNLOAD LATEST RELEASE** button.
3. Download the SnapCenter Plug-in for VMware vSphere `.ova` file to any location.

Deploying SnapCenter Plug-in for VMware vSphere

1. In your browser, navigate to VMware vSphere vCenter.
2. On the VMware screen, click **vSphere Web Client (Flex)** and then log in to the **VMware vCenter Single Sign-On** page.
3. Right-click any inventory object that is a valid parent object of a virtual machine, such as a datacenter, folder, cluster, or host, and select **Deploy OVF Template** to start the wizard.
4. On the **Select an OVF template** page, specify the location of the `.ova` file and click **Next**.

On this wizard page...	Do this...
Select a name and folder	Enter a unique name for the VM or vApp, and select a deployment location.
Select a resource	Select a resource where you want to run the deployed VM template.
Review details	Verify the <code>.ova</code> template details.
License agreements	Select the checkbox for I accept all license agreements .
Select storage	Define where and how to store the files for the deployed OVF template.
Select networks	Select a source network and map it to a destination network.

On this wizard page...	Do this...
Customize template	<ol style="list-style-type: none"> In Register to existing vCenter, enter the vCenter credentials. In Create SnapCenter Plug-in for VMware vSphere credentials, enter the SnapCenter Plug-in for VMware vSphere credentials. Attention: Make a note of the username and password that you specify. You need to use these credentials if you want to modify the SnapCenter Plug-in for VMware vSphere configuration at a later time. In Setup Network Properties, enter the network information. In Setup Date and Time, select the time zone where the vCenter is located.
Ready to complete	Review the page and click Finish .

Note: All hosts must be configured with IP addresses (FQDN hostnames are not supported). The deploy operation does not validate your input before deploying.

- Navigate to the VM where SnapCenter Plug-in for VMware vSphere was deployed, then click the **Summary** tab, and then click the **Power On** box to start the SnapCenter VMware plug-in.
- While the SnapCenter VMware plug-in is powering on, right-click the deployed SnapCenter VMware plug-in and then click **Install VMware tools**.


The deployment might take a few minutes to complete. A successful deployment is indicated when the SnapCenter VMware plug-in is powered on, the VMware tools are installed, and the screen prompts you to log in to the SnapCenter VMware plug-in.

The screen displays the IP address where the SnapCenter VMware plug-in is deployed. Make a note of that location. You need to log in to the SnapCenter VMware plug-in management GUI if you want to make changes to the SnapCenter VMware plug-in configuration.

- Log in to the SnapCenter VMware plug-in management GUI using the IP address displayed on the deployment screen using the credentials that you provided in the deployment wizard, then verify on the Dashboard that the SnapCenter VMware plug-in is successfully connected to vCenter and is enabled..

Use the format `https://<appliance-IP-address>:8080` to access the management GUI.

By default, the maintenance console user name is set to "maint" and the password is set to "admin123".

- Log in to vCenter (Flex or HTML5 client), then click  (Flex home) or **Menu** (HTML5) in the toolbar, and then select **SnapCenter Plug-in for VMware vSphere**.

Backing up a VM or datastore | Stage 3

Adding storage

- In the left Navigator pane of the SnapCenter vSphere web client, click **Storage Systems** and then click **+ Add**.

2. On the **Add Storage System** dialog box, enter the basic SVM or cluster information, and then click **Add**.

Creating backup policies

1. In the left Navigator pane of the SnapCenter vSphere web client, click **Policies**, and then click **+ New Policy**.
2. On the **New Backup Policy** page, enter the policy configuration information, and then click **Add**.
Note: If the policy will be used for mirror-vault relationships, then in the Replication field you must select **Update SnapVault after backup**.

Creating resource groups

1. In the left Navigator pane of the SnapCenter vSphere web client, click **Resource Groups**, and then click **+ (Create Resource Group)**.
2. Enter the required information on each page of the Create Resource Group wizard, select VMs and datastores to be included in the resource group, and then select the backup policies to be applied to the resource group and specify the backup schedule.

Backups are performed as specified in the backup policies that are configured for the resource group.

You can perform a backup on demand from the **Resource Groups** page by clicking **▶ (Run Now)**.

Where to find additional information

- [SnapCenter Plug-in for VMware vSphere Deployment Guide](#)
- [SnapCenter Plug-in for VMware vSphere Data Protection Guide](#)
- [SnapCenter Plug-in for VMware vSphere Release Notes](#)
- [NetApp Interoperability Matrix Tool \(IMT\)](#)