



Manage storage

SnapCenter Plug-in for VMware vSphere 4.5

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Manage storage

Add storage

Before you can backup or restore VMs, you must add storage clusters or storage VMs. Adding storage enables the SnapCenter Plug-in for VMware vSphere to recognize and manage backup and restore operations in vCenter.

- Which GUI to use

Use the VMware vSphere web client to add storage.

- Large LUNs

SnapCenter Plug-in for VMware vSphere 4.5 and later supports datastores on large LUN sizes up to 128 TB on ASA aggregates. For large LUNs, SnapCenter only supports thick provisioned LUNs to avoid latency.

Before you begin

The ESXi server, the SnapCenter VMware plug-in, and each vCenter must be synchronized to the same time. If you try to add storage but the time settings for your vCenters are not synchronized, the operation might fail with a Java certificate error.

About this task

The SnapCenter VMware plug-in performs backup and restore operations on directly connected storage VMs and on storage VMs in a storage cluster.



If you are using the SnapCenter VMware plug-in to support application-based backups on VMDKs, then you must use the SnapCenter GUI to enter storage credentials and register storage systems.

- For vCenters in linked mode, you must separately add storage systems to each vCenter.
- Names for storage VMs must resolve to management LIFs.

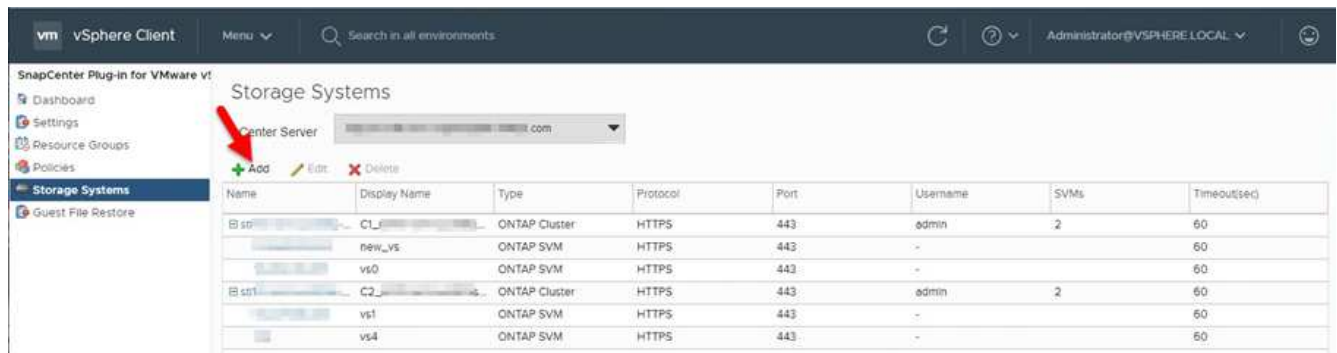
If you added etc host entries for storage VM names in SnapCenter, you must verify that they are also resolvable from the virtual appliance.

If you add a storage VM with a name that cannot resolve to the management LIF, then scheduled backup jobs fail because the plug-in is unable to discover any datastores or volumes on that storage VM. If this occurs, either add the storage VM to SnapCenter and specify the management LIF or add a cluster that contains the storage VM and specify the cluster management LIF.

- Storage credentials are not shared between multiple instances of the SnapCenter VMware plug-in or between Windows SnapCenter Server and the SnapCenter plug-in on vCenter.

Steps

1. In the left Navigator pane of the vSphere web client, click **Storage Systems**.
2. On the Storage Systems page, click **+ Add**.



3. In the **Add Storage System** wizard, enter the basic storage VM or cluster information as listed in the following table:

For this field...	Do this...
Storage system	Enter the FQDN or IP address of a storage cluster or storage VM. The SnapCenter VMware plug-in does not support multiple storage systems with the same name on different clusters. Each storage system that is supported by SnapCenter must have a unique data LIF IP address.
Platform	Select the platform.
Username	Enter the ONTAP username that is used to log on to the storage VM.
Password	Enter the storage VM logon password.
Protocol	Select storage protocol.
Port	Select port 443 (the default) or port 80 to communicate with vCenter.
Timeout	Enter the number of seconds vCenter should wait before timing out the operation. The default is 60 seconds.
Preferred IP	If the storage VM has more than one management IP address, check this box and enter the IP address that you want SnapCenter to use. Note: Do not use square brackets ([]) when entering the IP address.
Log SnapCenter Server events to syslog	Check the box to log events for the SnapCenter VMware plug-in.
Send AutoSupport Notification for failed operation to storage system	Check the box if you want AutoSupport notification for failed data protection jobs. You must also enable AutoSupport on the storage VM and configure the AutoSupport email settings.

4. Click **Add**.

If you added a storage cluster, all storage VMs in that cluster are automatically added. Automatically added storage VMs (sometimes called “implicit” storage VMs) are displayed on the cluster summary page with a

hyphen (-) instead of a username. Usernames are displayed only for explicit storage entities.

Manage storage systems

Before you can back up or restore VMs or datastores using the VMware vSphere web client, you must add the storage.

Modify storage VMs


You can use the VMware vSphere web client to modify the configurations of clusters and storage VMs that are registered in SnapCenter Plug-in for VMware vSphere and used for VM data protection operations.

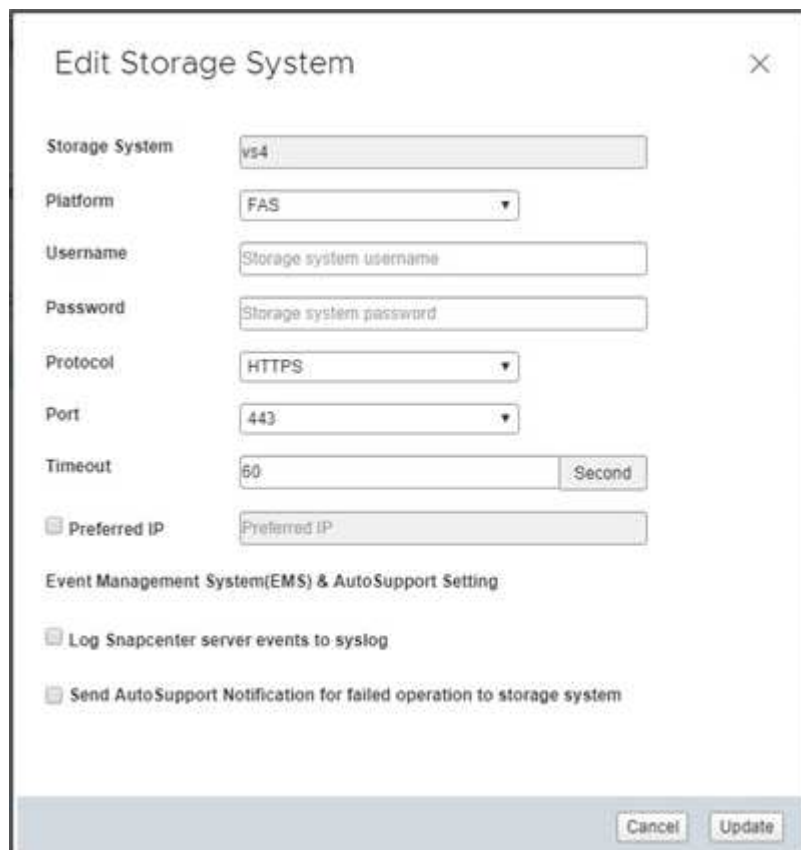
If you modify a storage VM that was automatically added as part of a cluster (sometimes called an implicit storage VM), then that storage VM changes to an explicit storage VM and can be separately deleted without changing the rest of the storage VMs in that cluster. On the Storage Systems page, the username is displayed as "-" for implicit storage VMs; usernames are displayed only for explicit storage VMs in the cluster list and have the ExplicitSVM flag set to true. All storage VMs are always listed under the associated cluster.



If you added storage VMs for application-based data protection operations using the SnapCenter GUI, you must use the same GUI to modify those storage VMs.

Steps

1. In the left Navigator pane of the VMware vSphere web client, click **Storage Systems**.
2. On the **Storage Systems** page, select the storage VM to be modified and then click  **Edit**.
3. On the **Edit Storage System** window, enter the new values, and then click **Update** to apply the changes.



Edit Storage System

Storage System: vs4

Platform: FAS

Username: Storage system username

Password: Storage system password

Protocol: HTTPS

Port: 443

Timeout: 60 Second

Preferred IP: Preferred IP

Event Management System(EMS) & AutoSupport Setting

Log Snapcenter server events to syslog

Send AutoSupport Notification for failed operation to storage system

Cancel Update

Rename storage VMs

If you rename a VM after you added it to a resource group, the new name might not be displayed on the Resources page because the SnapCenter Plug-in for VMware vSphere acts on the VM UUID, not the name.

To make sure new VM names are displayed on the Resources page, do the following.

1. Edit the resource group and remove the VM.
2. Rename the VM.
3. Re-add the VM to the resource group.

Remove storage VMs

You can use the VMware vSphere web client to remove storage VMs from the inventory in vCenter.



If you added storage VMs for application-based data protection operations using the SnapCenter GUI, you must use the same GUI to modify those storage VMs.

Before you begin

You must unmount all datastores in the storage VM before you can remove the storage VM.

About this task

If a resource group has backups that reside on a storage VM that you remove, then subsequent backups for that resource group fail.

Steps

1. In the left Navigator pane of the VMware vSphere web client, click **Storage Systems**.
2. On the **Storage Systems** page, select the storage VM to be removed and then click **Delete**.
3. In the **Remove Storage System** confirmation box, check the box for **Delete storage system(s)** and then click **Yes** to confirm.
4. If the removed storage VM was managed by an ESXi 6.7 Server, then you must restart the web client service.

[Restart the VMware vSphere web client service.](#)

Modify the configured storage timeout

Even though backups have run successfully in the past, they might start failing when the time that the SnapCenter Plug-in for VMware vSphere must wait for the storage system exceeds the configured timeout period. If this condition occurs, you can increase the configured timeout.

You might encounter the error `Unable to discover resources on SCV: Unable to get storage details for datastore <xxx>...`

Steps

1. In the VMware vSphere web client, click **Storage Systems**.
2. On the Storage Systems page, select the storage system to be modified and click **Edit**.

3. In the Timeout field, increase the number of seconds.



180 seconds is recommended for large environments.

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