



## **Manage your configuration**

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

NetApp

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# Manage your configuration

## Modify the time zones for backups

When you configure a backup schedule for a SnapCenter Plug-in for VMware vSphere resource group, the schedule is automatically set for the time zone in which SnapCenter Plug-in for VMware vSphere is deployed. You can modify that time zone by using the SnapCenter Plug-in for VMware vSphere management GUI or maintenance console.

### Before you begin

You must know the IP address and the log in credentials for the SnapCenter Plug-in for VMware vSphere management GUI. You must also note down the MFA token generated from the maintenance console.

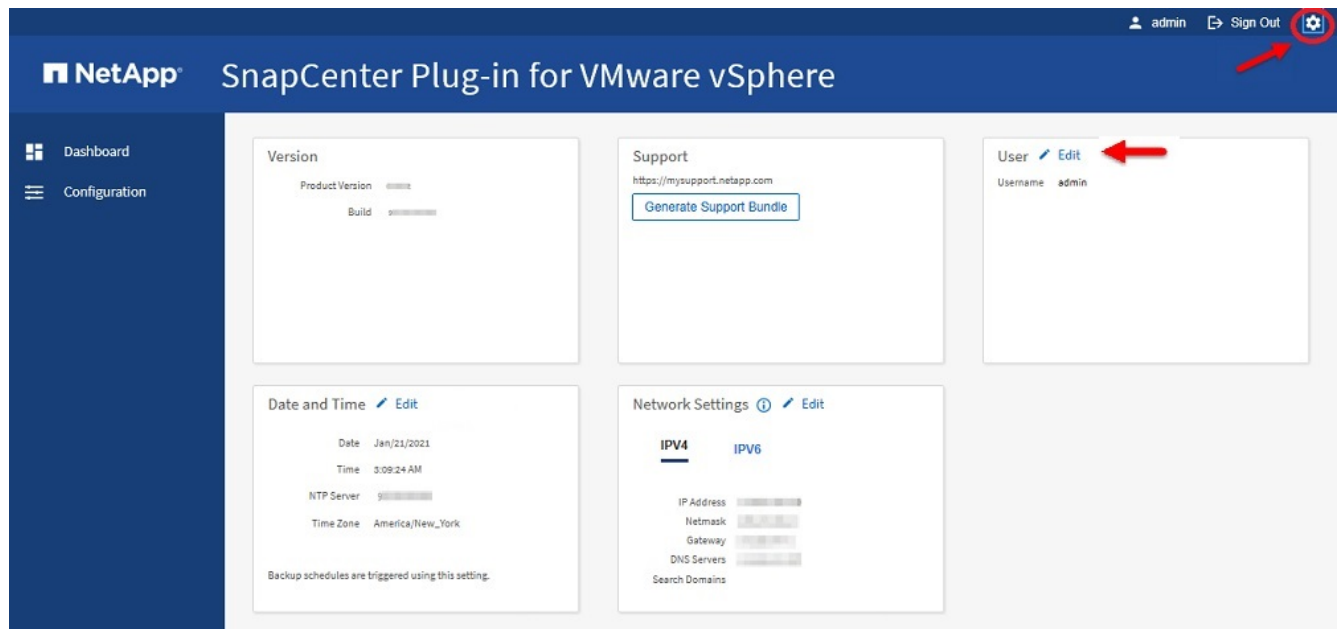
- The IP address was displayed when the SnapCenter Plug-in for VMware vSphere was deployed.
- Use the log in credentials provided during the deployment of the SnapCenter Plug-in for VMware vSphere or as later modified.
- Generate a 6-digit MFA token using the maintenance console System Configuration options.

### Steps

1. Log in to the SnapCenter Plug-in for VMware vSphere management GUI.

Use the format `https://<appliance-IP-address>:8080`

2. Click the Settings icon in the top toolbar.



3. On the **Settings** page, in the **Date and Time** section, click **Edit**.
4. Select the new time zone and click **Save**.

The new time zone will be used for all backups performed by the SnapCenter Plug-in for VMware vSphere.

# Modify the logon credentials

You can modify the logon credentials for the SnapCenter Plug-in for VMware vSphere management GUI.

## Before you begin

You must know the IP address and the log on credentials for the SnapCenter Plug-in for VMware vSphere management GUI. You must also note down the MFA token generated from the maintenance console.

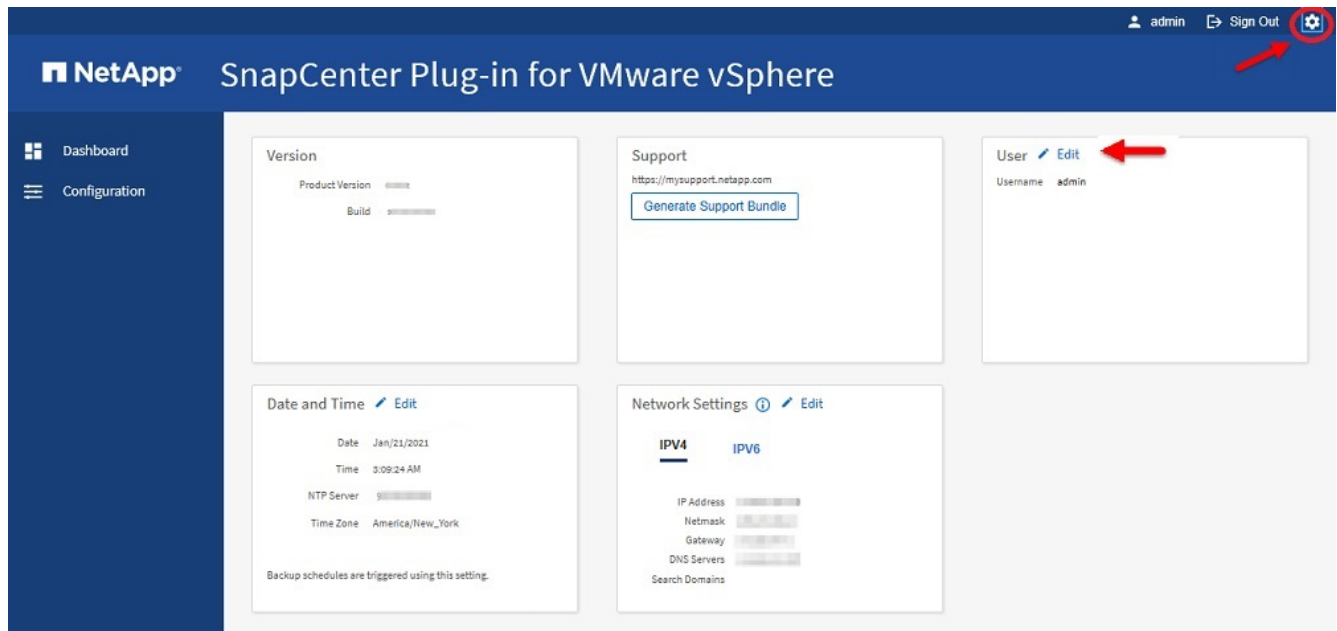
- The IP address was displayed when the SnapCenter Plug-in for VMware vSphere was deployed.
- Use the log in credentials provided during the deployment of the SnapCenter Plug-in for VMware vSphere or as later modified.
- Generate a 6-digit MFA token using the maintenance console System Configuration options.

## Steps

1. Log in to the SnapCenter Plug-in for VMware vSphere management GUI.

Use the format `https://<appliance-IP-address>:8080`

2. Click the Settings icon in the top toolbar.



3. On the **Settings** page, in the **User** section, click **Edit**.
4. Enter the new password and click **Save**.

It might take several minutes before all the services come back up.

# Modify the vCenter logon credentials

You can modify the vCenter logon credentials that are configured in SnapCenter Plug-in for VMware vSphere. These settings are used by the plug-in to access vCenter. When you change the vCenter password, you need to unregister ONTAP tools for

VMware vSphere and re-registered it with the new password for the vVol backups to work seamlessly.

### Before you begin

You must know the IP address and the log on credentials for the SnapCenter Plug-in for VMware vSphere management GUI. You must also note down the MFA token generated from the maintenance console.

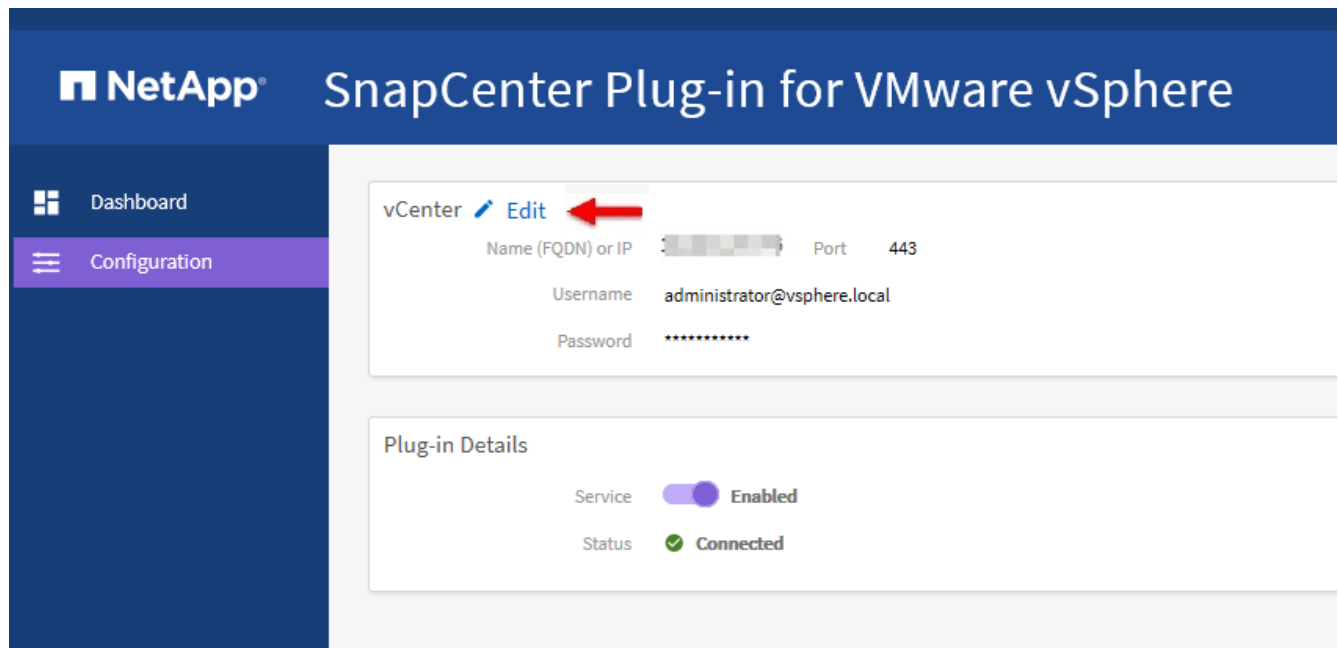
- The IP address was displayed when the SnapCenter Plug-in for VMware vSphere was deployed.
- Use the log in credentials provided during the deployment of the SnapCenter Plug-in for VMware vSphere or as later modified.
- Generate a 6-digit MFA token using the maintenance console System Configuration options.

### Steps

1. Log in to the SnapCenter Plug-in for VMware vSphere management GUI.

Use the format `https://<appliance-IP-address>:8080`

2. In the left navigation pane, click **Configuration**.



3. On the **Configuration** page, in the **vCenter** section, click **Edit**.

4. Enter the new password and then click **Save**.

Do not modify the port number.

## Modify the network settings

You can modify the network settings that are configured in SnapCenter Plug-in for VMware vSphere. These settings are used by the plug-in to access vCenter.

### Before you begin

You must know the IP address and the log on credentials for the SnapCenter Plug-in for VMware vSphere

management GUI. You must also note down the MFA token generated from the maintenance console.

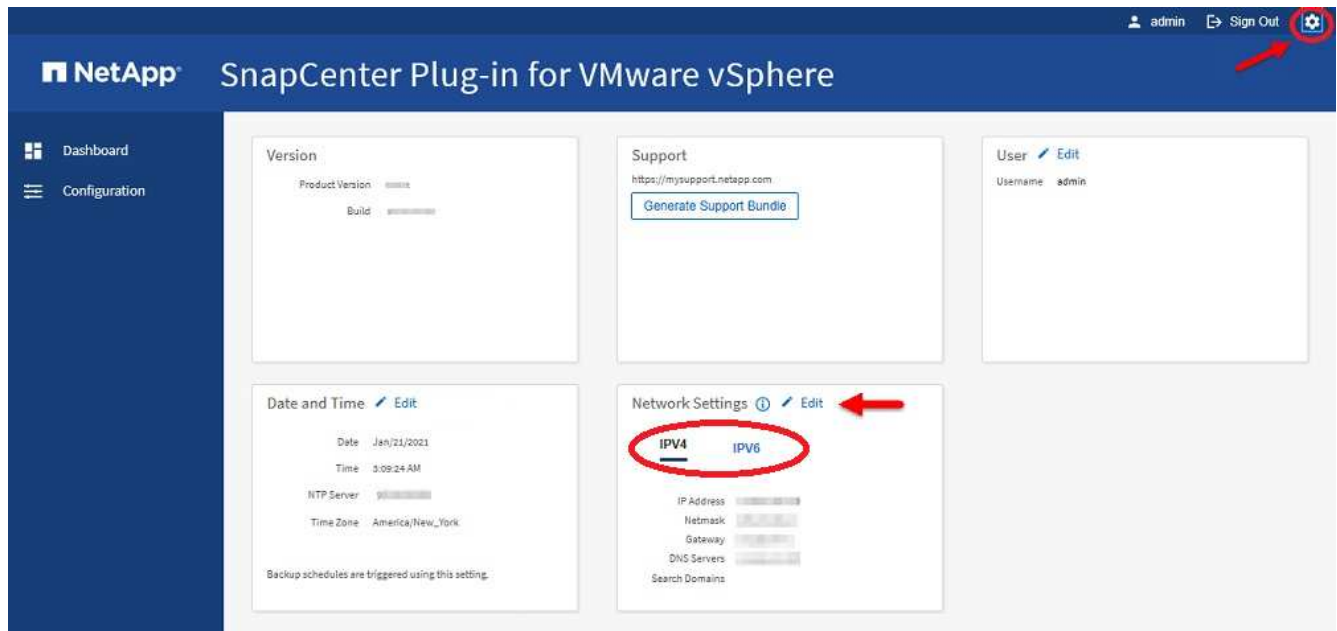
- The IP address was displayed when the SnapCenter Plug-in for VMware vSphere was deployed.
- Use the log in credentials provided during the deployment of the SnapCenter Plug-in for VMware vSphere or as later modified.
- Generate a 6-digit MFA token using the maintenance console System Configuration options.

## Steps

1. Log in to the SnapCenter Plug-in for VMware vSphere management GUI.

Use the format `https://<appliance-IP-address>:8080`

2. Click the Settings icon in the top toolbar.



3. On the **Settings** page, in the **Network Settings** section, click **IPv4** or **IPv6**, and then click **Edit**.

Enter the new information and click **Save**.

4. If you are removing a network setting, do the following:
  - IPv4: In the **IP Address** field, enter `0 . 0 . 0 . 0` and then click **Save**.
  - IPv6: In the **IP Address** field: enter `: : 0` and then click **Save**.



If you are using both IPv4 and IPv6, you cannot remove both network settings. The remaining network must specify the DNS Servers and Search Domains fields.

## Modify configuration default values

To improve operational efficiency, you can modify the `schr.override` configuration file to change default values. These values control settings such as the number of VMware snapshots that are created or deleted during a backup or the amount of time before a backup script stops running.

The `scbr.override` configuration file is used by the SnapCenter Plug-in for VMware vSphere in environments that support SnapCenter application-based data protection operations. If this file does not exist, then you must create it from the template file.

## Create the `scbr.override` configuration file

The `scbr.override` configuration file is used by the SnapCenter Plug-in for VMware vSphere in environments that support SnapCenter application-based data protection operations.

1. Go to `/opt/netapp/scvservice/standalone_aegis/etc/scbr/scbr.override-template`.
2. Copy the `scbr.override-template` file to a new file called `scbr.override` in the `\opt\netapp\scvservice\standalone_aegis\etc\scbr` directory.

## Properties you can override

You can use properties that are listed in the `scbr.override` configuration file to change default values.

- By default, the template uses hash symbol to comment the configuration properties. To use a property to modify a configuration value, you must remove the `#` characters.
- You must restart the service on the SnapCenter Plug-in for VMware vSphere host for the changes to take effect.

You can use the following properties that are listed in the `scbr.override` configuration file to change default values.

- **`dashboard.protected.vm.count.interval=7`**

Specifies the number of days for which the dashboard displays VM protection status.

The default value is "7".

- **`disable.weakCiphers=true`**

Disables the following weakCiphers for the communication channel between SnapCenter Plug-in for VMware vSphere and SnapCenter, and any additional weakCiphers that are listed in `include.weakCiphers`:

```
TLS_RSA_WITH_AES_256_CBC_SHA256 TLS_DHE_RSA_WITH_AES_256_CBC_SHA256  
TLS_RSA_WITH_AES_128_CBC_SHA256 TLS_DHE_RSA_WITH_AES_128_CBC_SHA256  
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256  
TLS_RSA_WITH_AES_128_GCM_SHA256  
TLS_RSA_WITH_AES_256_GCM_SHA384
```

- **`global.ds.exclusion.pattern`**

Specifies one or more traditional or vVol datastores to be excluded from backup operations. You can specify the datastores using any valid Java regular expression.

Example 1: The expression `global.ds.exclusion.pattern=.*21` excludes datastores that have a common pattern; for example `datastore21` and `dstest21` would be excluded.

Example 2: The expression `global.ds.exclusion.pattern=ds-.*|^vol123` excludes all datastores that contain `ds-` (for example `scvds-test`) or begin with `vol123`.

- **guestFileRestore.guest.operation.interval=5**

Specifies the time interval, in seconds, that SnapCenter Plug-in for VMware vSphere monitors for completion of guest operations on the guest (Online Disk and Restore Files). The total wait time is set by `guestFileRestore.online.disk.timeout` and `guestFileRestore.restore.files.timeout`.

The default value is "5".

- **guestFileRestore.monitorInterval=30**

Specifies the time interval, in minutes, that the SnapCenter Plug-in for VMware vSphere monitors for expired guest file restore sessions. Any session that is running beyond the configured session time is disconnected.

The default value is "30".

- **guestFileRestore.online.disk.timeout=100**

Specifies the time, in seconds, that the SnapCenter Plug-in for VMware vSphere waits for an online disk operation on a guest VM to complete. Note that there is an additional 30-second wait time before the plug-in polls for completion of the online disk operation.

The default value is "100".

- **guestFileRestore.restore.files.timeout=3600**

Specifies the time, in seconds, that the SnapCenter Plug-in for VMware vSphere waits for a restore files operation on a guest VM to complete. If the time is exceeded, the process is ended and the job is marked as failed.

The default value is "3600" (1 hour).

- **guestFileRestore.robocopy.directory.flags=/R:0 /W:0 /ZB /CopyAll /EFSRAW /A-:SH /e /NJH /NDL /NP**

Specifies the extra robocopy flags to use when copying directories during guest file restore operations.

Do not remove `/NJH` or add `/NJS` because this will break the parsing of the restore output.

Do not allow unlimited retries (by removing the `/R` flag) because this might cause endless retries for failed copies.

The default values are `"/R:0 /W:0 /ZB /CopyAll /EFSRAW /A-:SH /e /NJH /NDL /NP"`.

- **guestFileRestore.robocopy.file.flags=/R:0 /W:0 /ZB /CopyAll /EFSRAW /A-:SH /NJH /NDL /NP**

Specifies the extra robocopy flags to use when copying individual files during guest file restore operations.

Do not remove `/NJH` or add `/NJS` because this will break the parsing of the restore output.

Do not allow unlimited retries (by removing the `/R` flag) because this might cause endless retries for failed copies.



The default values are `"/R:0 /W:0 /ZB /CopyAll /EFSRAW /A-:SH /NJH /NDL /NP"`.

- **guestFileRestore.sessionTime=1440**

Specifies the time, in minutes, that SnapCenter Plug-in for VMware vSphere keeps a guest file restore session active.

The default value is "1440" (24 hours).

- **guestFileRestore.use.custom.online.disk.script=true**

Specifies whether to use a custom script for onlining disks and retrieving drive letters when creating guest file restore sessions. The script must be located at `[Install Path] \etc\guestFileRestore_onlineDisk.ps1`. A default script is provided with the installation. The values `[Disk_Serial_Number]`, `[Online_Disk_Output]`, and `[Drive_Output]` are replaced in the script during the attach process.

The default value is "false".

- **include.esx.initiator.id.from.cluster=true**

Specifies that the SnapCenter Plug-in for VMware vSphere should include iSCSI and FCP initiator IDs from all the ESXi hosts in the cluster in the application over VMDK workflows.

The default value is "false".

- **include.weakCiphers**

When `disable.weakCiphers` is set to `true`, specifies the weak ciphers that you want to be disabled in addition to the weak ciphers that `disable.weakCiphers` disables by default.

- **max.concurrent.ds.storage.query.count=15**

Specifies the maximum number of concurrent calls that the SnapCenter Plug-in for VMware vSphere can make to the SnapCenter Server to discover the storage footprint for the datastores. The plug-in makes these calls when you restart the Linux service on the SnapCenter Plug-in for VMware vSphere VM host.

- **nfs.datastore.mount.retry.count=3**

Specifies the maximum number of times the SnapCenter Plug-in for VMware vSphere tries to mount a volume as a NFS Datastore in vCenter.

The default value is "3".

- **nfs.datastore.mount.retry.delay=60000**

Specifies the time, in milliseconds, that the SnapCenter Plug-in for VMware vSphere waits between attempts to mount a volume as a NFS Datastore in vCenter.

The default value is "60000" (60 seconds).

- **script.virtual.machine.count.variable.name= VIRTUAL\_MACHINES**

Specifies the environmental variable name that contains the virtual machine count. You must define the variable before you execute any user-defined scripts during a backup job.

For example, `VIRTUAL_MACHINES=2` means that two virtual machines are being backed up.

- **`script.virtual.machine.info.variable.name=VIRTUAL_MACHINE.%s`**

Provides the name of the environmental variable that contains information about the nth virtual machine in the backup. You must set this variable before executing any user defined scripts during a backup.

For example, the environmental variable `VIRTUAL_MACHINE.2` provides information about the second virtual machine in the backup.

- **`script.virtual.machine.info.format= %s|%s|%s|%s|%s`**

Provides information about the virtual machine. The format for this information, which is set in the environment variable, is the following: VM name|VM UUID| VM power state (on|off)|VM snapshot taken (true|false)|IP address(es)

The following is an example of the information you might provide:

```
VIRTUAL_MACHINE.2=VM 1|564d6769-f07d-6e3b-68b1f3c29ba03a9a|POWERED_ON||true|10.0.4.2
```

- **`storage.connection.timeout=600000`**

Specifies the amount of time, in milliseconds, that the SnapCenter Server waits for a response from the storage system.

The default value is "600000" (10 minutes).

- **`vmware.esx.ip.kernel.ip.map`**

There is no default value. You use this value to map the ESXi host IP address to the VMkernel IP address. By default, the SnapCenter Plug-in for VMware vSphere uses the management VMkernel adapter IP address of the ESXi host. If you want the SnapCenter Plug-in for VMware vSphere to use a different VMkernel adapter IP address, you must provide an override value.

In the following example, the management VMkernel adapter IP address is 10.225.10.56; however, the SnapCenter Plug-in for VMware vSphere uses the specified address of 10.225.11.57 and 10.225.11.58. And if the management VMkernel adapter IP address is 10.225.10.60, the plug-in uses the address 10.225.11.61.

```
vmware.esx.ip.kernel.ip.map=10.225.10.56:10.225.11.57,10.225.11.58;10.225.10.60:10.225.11.61
```

- **`vmware.max.concurrent.snapshots=30`**

Specifies the maximum number of concurrent VMware snapshots that the SnapCenter Plug-in for VMware vSphere performs on the server.

This number is checked on a per datastore basis and is checked only if the policy has "VM consistent" selected. If you are performing crash-consistent backups, this setting does not apply.

The default value is "30".

- **`vmware.max.concurrent.snapshots.delete=30`**

Specifies the maximum number of concurrent VMware snapshot delete operations, per datastore, that the SnapCenter Plug-in for VMware vSphere performs on the server.

This number is checked on a per datastore basis.

The default value is "30".

- **vmware.query.unresolved.retry.count=10**

Specifies the maximum number of times the SnapCenter Plug-in for VMware vSphere retries sending a query about unresolved volumes because of "...time limit for holding off I/O..." errors.

The default value is "10".

- **vmware.quiesce.retry.count=0**

Specifies the maximum number of times the SnapCenter Plug-in for VMware vSphere retries sending a query about VMware snapshots because of "...time limit for holding off I/O..." errors during a backup.

The default value is "0".

- **vmware.quiesce.retry.interval=5**

Specifies the amount of time, in seconds, that the SnapCenter Plug-in for VMware vSphere waits between sending the queries regarding VMware snapshot "...time limit for holding off I/O..." errors during a backup.

The default value is "5".

- **vmware.query.unresolved.retry.delay= 60000**

Specifies the amount of time, in milliseconds, that the SnapCenter Plug-in for VMware vSphere waits between sending the queries regarding unresolved volumes because of "...time limit for holding off I/O..." errors. This error occurs when cloning a VMFS datastore.

The default value is "60000" (60 seconds).

- **vmware.reconfig.vm.retry.count=10**

Specifies the maximum number of times the SnapCenter Plug-in for VMware vSphere retries sending a query about reconfiguring a VM because of "...time limit for holding off I/O..." errors.

The default value is "10".

- **vmware.reconfig.vm.retry.delay=30000**

Specifies the maximum time, in milliseconds, that the SnapCenter Plug-in for VMware vSphere waits between sending queries regarding reconfiguring a VM because of "...time limit for holding off I/O..." errors.

The default value is "30000" (30 seconds).

- **vmware.rescan.hba.retry.count=3**

Specifies the amount of time, in milliseconds, that the SnapCenter Plug-in for VMware vSphere waits between sending the queries regarding rescanning the host bus adapter because of "...time limit for holding off I/O..." errors.

The default value is "3".

- **vmware.rescan.hba.retry.delay=30000**

Specifies the maximum number of times the SnapCenter Plug-in for VMware vSphere retries requests to rescan the host bus adapter.

The default value is "30000".

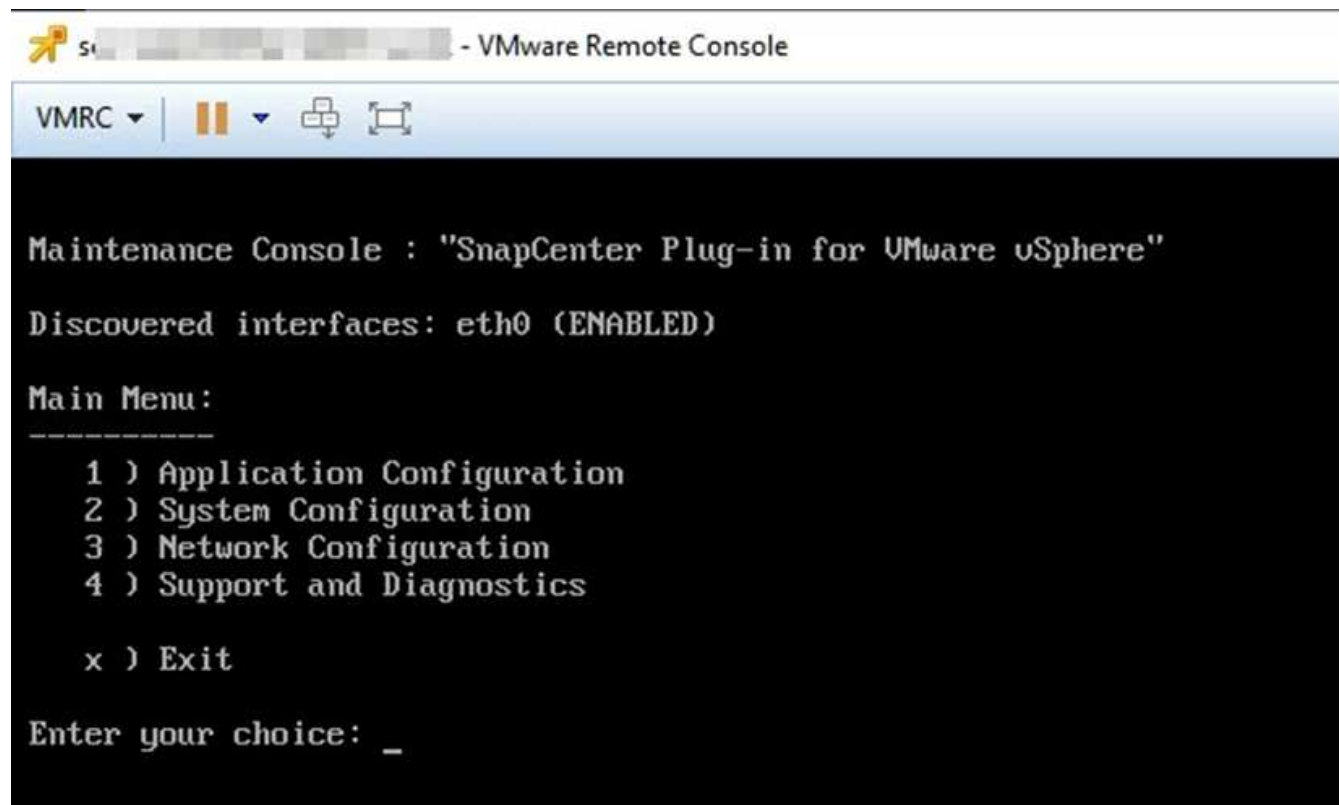
## Enable SSH for SnapCenter Plug-in for VMware vSphere

When the SnapCenter Plug-in for VMware vSphere is deployed, SSH is disabled by default.

### Steps

1. From the VMware vSphere client, select the VM where the SnapCenter Plug-in for VMware vSphere is located.
2. In the **Summary** tab of the virtual appliance click **Launch Remote Console** to open a maintenance console window, and then log on.

For information on accessing and logging on to the maintenance console, refer to [Access the Maintenance Console](#).



3. From the Main Menu, select menu option **2) System Configuration**.
4. From the System Configuration Menu, select menu option **6) Enable SSH access** and then enter "y" at the confirmation prompt.
5. Wait for the message "Enabling SSH Access..." then press **Enter** to continue, and then enter **X** at the

prompt to exit Maintenance Mode.

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