



Prerequisites to add hosts and install SnapCenter Plug-in for Microsoft Exchange Server

SnapCenter Software

NetApp
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Prerequisites to add hosts and install SnapCenter Plug-in for Microsoft Exchange Server

Before you add a host and install the plug-in packages, you must complete all the requirements.

- If you are using iSCSI, the iSCSI service must be running.
- You must have a domain user with local administrator privileges with local login permissions on the remote host.
- You must be using Microsoft Exchange Server 2013, 2016, or 2019 for standalone and Database Availability Group configurations.
- When installing a plug-in on a Windows host, if you specify a credential that is not built-in or if the user belongs to a local workgroup user, you must disable UAC on the host.
- If you manage cluster nodes in SnapCenter, you must have a user with administrative privileges to all the nodes in the cluster.
- You must have a user with administrative permissions on the Exchange Server.
- If SnapManager for Microsoft Exchange Server and SnapDrive for Windows are already installed, you must unregister the VSS Hardware Provider used by SnapDrive for Windows before you install Plug-in for Exchange on the same Exchange Server to ensure successful data protection using SnapCenter.
- If SnapManager for Microsoft Exchange Server and Plug-in for Exchange are installed on the same server, you must suspend or delete from the Windows scheduler all schedules created by SnapManager for Microsoft Exchange Server.
- The host must be resolvable to the fully qualified domain name (FQDN) from the server. If the hosts file is modified to make it resolvable and if both the short name and the FQDN are specified in the hosts file, create an entry in the SnapCenter hosts file in the following format: `<ip_address> <host_fqdn> <host_name>`.
- Ensure the following ports are not blocked in the firewall, otherwise the add host operation fails. To resolve this issue, configure the dynamic port range. For more information, see [Microsoft documentation](#).
 - Port range 50000 - 51000 for Windows 2016 and Exchange 2016
 - Port range 6000 - 6500 for Windows 2012 R2 and Exchange 2013
 - Port range 49152 - 65536 for Windows 2019

Host requirements to install SnapCenter Plug-ins Package for Windows

Before you install the SnapCenter Plug-ins Package for Windows, you should be familiar with some basic host system space requirements and sizing requirements.

Item	Requirements
Operating Systems	<p>Microsoft Windows</p> <div>  <p>You must enable the Cluster Shared Volumes (CSV) feature in Windows Server 2008 R2 SP1 if you want to create CSV-type disks.</p> </div> <p>For the latest information about supported versions, see the NetApp Interoperability Matrix Tool.</p>
Minimum RAM for the SnapCenter plug-in on host	1 GB
Minimum install and log space for the SnapCenter plug-in on host	<p>5 GB</p> <div>  <p>You should allocate sufficient disk space and monitor the storage consumption by the logs folder. The log space required varies depending on the number of the entities to be protected and the frequency of data protection operations. If there is no sufficient disk space, the logs will not be created for the recently run operations.</p> </div>
Required software packages	<ul style="list-style-type: none"> • Microsoft .NET Framework 4.5.2 or later • Windows Management Framework (WMF) 4.0 or later • PowerShell 4.0 or later <p>For the latest information about supported versions, see the NetApp Interoperability Matrix Tool.</p>

Exchange Server privileges required

To enable SnapCenter to add Exchange Server or DAG, and to install SnapCenter Plug-in for Microsoft Exchange Server on a host or DAG, you must configure SnapCenter with credentials for a user with a minimum set of privileges and permissions.

You must have a domain user with local administrator privileges, and with local login permissions on the remote Exchange host, as well as administrative permissions on all the nodes in the DAG. The domain user requires the following minimum permissions:

- Add-MailboxDatabaseCopy
- Dismount-Database

- Get-AdServerSettings
- Get-DatabaseAvailabilityGroup
- Get-ExchangeServer
- Get-MailboxDatabase
- Get-MailboxDatabaseCopyStatus
- Get-MailboxServer
- Get-MailboxStatistics
- Get-PublicFolderDatabase
- Move-ActiveMailboxDatabase
- Move-DatabasePath -ConfigurationOnly:\$true
- Mount-Database
- New-MailboxDatabase
- New-PublicFolderDatabase
- Remove-MailboxDatabase
- Remove-MailboxDatabaseCopy
- Remove-PublicFolderDatabase
- Resume-MailboxDatabaseCopy
- Set-AdServerSettings
- Set-MailboxDatabase -allowfilerestore:\$true
- Set-MailboxDatabaseCopy
- Set-PublicFolderDatabase
- Suspend-MailboxDatabaseCopy
- Update-MailboxDatabaseCopy

Set up credentials for SnapCenter Plug-in for Windows

SnapCenter uses credentials to authenticate users for SnapCenter operations. You should create credentials for installing the plug-in package and additional credentials for performing data protection operations on databases.

About this task

You must set up credentials for installing plug-ins on Windows hosts. Although you can create credentials for Windows after deploying hosts and installing plug-ins, the best practice is to create credentials after you add SVMs, before you deploy hosts and install plug-ins.

Set up the credentials with administrator privileges, including administrator rights on the remote host.

If you set up credentials for individual resource groups and the username does not have full admin privileges, you must assign at least the resource group and backup privileges to the username.

Steps

1. In the left navigation pane, click **Settings**.
2. In the Settings page, click **Credential**.
3. Click **New**.

The Credential window is displayed.

4. In the Credential page, do the following:

For this field...	Do this...
Credential name	Enter a name for the credential.
Username	<p>Enter the user name used for authentication.</p> <ul style="list-style-type: none"> • Domain administrator or any member of the administrator group <p>Specify the domain administrator or any member of the administrator group on the system on which you are installing the SnapCenter plug-in. Valid formats for the Username field are:</p> <ul style="list-style-type: none"> ◦ <code>NetBIOS\UserName</code> ◦ <code>Domain FQDN\UserName</code> • Local administrator (for workgroups only) <p>For systems that belong to a workgroup, specify the built-in local administrator on the system on which you are installing the SnapCenter plug-in. You can specify a local user account that belongs to the local administrators group if the user account has elevated privileges or the User Access control feature is disabled on the host system. The valid format for the Username field is: <code>UserName</code></p>
Password	Enter the password used for authentication.
Authentication	Select Windows as the authentication mode.

5. Click **OK**.

Configure gMSA on Windows Server 2012 or later

Windows Server 2012 or later enables you to create a group Managed Service Account (gMSA) that provides automated service account password management from a managed domain account.

What you will need

- You should have a Windows Server 2012 or later domain controller.
- You should have a Windows Server 2012 or later host, which is a member of the domain.

Steps

1. Create a KDS root key to generate unique passwords for each object in your gMSA.
2. For each domain, run the following command from the Windows domain controller: `Add-KDSRootKey -Effectivelmmediately`
3. Create and configure your gMSA:
 - a. Create a user group account.
 - b. Add computer objects to the group.
 - c. Use the user group you just created to create the gMSA.

For example,

```
New-ADServiceAccount -name <ServiceAccountName> -DNSHostName <fqdn>  
-PrincipalsAllowedToRetrieveManagedPassword <group>  
-ServicePrincipalNames <SPN1,SPN2,...>
```

- d. Run `Get-ADServiceAccount` command to verify the service account.
4. Configure the gMSA on your hosts:
 - a. Enable the Active Directory module for Windows PowerShell on the host where you want to use the gMSA account.

To do this, run the following command from PowerShell:

```
PS C:\> Get-WindowsFeature AD-Domain-Services
```

Display Name	Name	Install State
-----	----	-----
[] Active Directory Domain Services	AD-Domain-Services	Available

```
PS C:\> Install-WindowsFeature AD-DOMAIN-SERVICES
```

Success	Restart Needed	Exit Code	Feature Result
-----	-----	-----	-----
True	No	Success	{Active Directory Domain Services, Active ...

WARNING: Windows automatic updating is not enabled. To ensure that your newly-installed role or feature is automatically updated, turn on Windows Update.

- b. Restart your host.
- c. Install the gMSA on your host by running the following command from the PowerShell command prompt: `Install-AdServiceAccount <gMSA>`
- d. Verify your gMSA account by running the following command: `Test-AdServiceAccount <gMSA>`
5. Assign the administrative privileges to the configured gMSA on the host.
6. Add the Windows host by specifying the configured gMSA account in the SnapCenter Server.

SnapCenter Server will install the selected plug-ins on the host and the specified gMSA will be used as the service log on account during the plug-in installation.

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