



Prerequisites for adding hosts and installing SnapCenter Plug-in for SAP HANA Database

SnapCenter Software

NetApp
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Prerequisites for adding hosts and installing SnapCenter Plug-in for SAP HANA Database

Before you add a host and install the plug-in packages, you must complete all the requirements. SnapCenter Plug-in for SAP HANA Database is available in both Windows and Linux environments.

- You must have installed Java 1.8 64-bit on your host.
- You must have installed SAP HANA database interactive terminal (HDBSQL client) on the host.
- For Windows, plug-in Creator Service should be running using the “LocalSystem” windows user, which is the default behavior when Plug-in for SAP HANA Database is installed as domain administrator.
- For Windows, user store keys should be created as SYSTEM user.
- 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. SnapCenter Plug-in for Microsoft Windows will be deployed by default with the SAP HANA plug-in on Windows hosts.
- For Linux host, HDB Secure User Store keys are accessed as HDBSQL OS user.
- SnapCenter Server should have access to the 8145 or custom port of Plug-in for SAP HANA Database host.

Windows hosts

- You must have a domain user with local administrator privileges with local login permissions on the remote host.
- While installing Plug-in for SAP HANA Database on a Windows host, SnapCenter Plug-in for Microsoft Windows is installed automatically.
- You must have enabled the password-based SSH connection for the root or non-root user.
- You must have installed Java 1.8 64-bit on your Windows host.

The Interoperability Matrix Tool (IMT) contains the latest information about requirements.

[Java Downloads for All Operating Systems](#)

[NetApp Interoperability Matrix Tool](#)

Linux hosts

- You must have enabled the password-based SSH connection for the root or non-root user.
- You must have installed Java 1.8 64-bit on your Linux host.

The Interoperability Matrix Tool (IMT) contains the latest information about requirements.

[Java Downloads for All Operating Systems](#)



[NetApp Interoperability Matrix Tool](#)

- For SAP HANA databases that are running on a Linux host, while installing Plug-in for SAP HANA

Database, SnapCenter Plug-in for UNIX is installed automatically.

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> You must enable the Cluster Shared Volumes (CSV) feature in Windows Server 2008 R2 SP1 if you want to create CSV-type disks.</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> 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.</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>

Host requirements for installing the SnapCenter Plug-ins Package for Linux

Before you install the SnapCenter Plug-ins Package for Linux, you should be familiar with

some basic host system space and sizing requirements.

Item	Requirements
Operating systems	<ul style="list-style-type: none">• Red Hat Enterprise Linux• SUSE Linux Enterprise Server (SLES) <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	2 GB  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.
Required software packages	Java 1.8 (64-bit) Oracle Java and OpenJDK flavors If you have upgraded JAVA to the latest version, you must ensure that the JAVA_HOME option located at /var/opt/snapcenter/spl/etc/spl.properties is set to the correct JAVA version and the correct path. For the latest information about supported versions, see the NetApp Interoperability Matrix Tool .

Set up credentials for the SnapCenter Plug-in for SAP HANA Database

SnapCenter uses credentials to authenticate users for SnapCenter operations. You should create credentials for installing SnapCenter plug-ins and additional credentials for performing data protection operations on databases or Windows file systems.

About this task

- Linux hosts

You must set up credentials for installing plug-ins on Linux hosts.

You must set up the credentials for the root user or for a non-root user who has sudo privileges to install

and start the plug-in process.

Best Practice: Although you are allowed to create credentials for Linux 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.

- Windows hosts

You must set up Windows credentials before installing plug-ins.

You must 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**.

Credential [X]

Provide information for the Credential you want to add

Credential Name:


Username: ⓘ

Password:

Authentication:

☐ Use sudo privileges ⓘ

4. In the **Credential** page, specify the information required for configuring credentials:

For this field...	Do this...
Credential name	Enter a name for the credentials.
User name	<p>Enter the user name and password that are to be 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"> <i>NetBIOS\UserName</i> <i>Domain FQDN\UserName</i> 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: <i>UserName</i></p> <p>Do not use double quotes (") in passwords for Windows SVMs.</p>
Password	Enter the password used for authentication.
Authentication Mode	Select the authentication mode that you want to use. If you select the SQL authentication mode, you must also specify the SQL server instance and the host where the SQL instance is located.
Use sudo privileges	<p>Select the Use sudo privileges check box if you are creating credentials for a non-root user.</p> <div>  <p>Applicable to Linux users only.</p> </div>

5. Click **OK**.

After you finish setting up the credentials, you might want to assign credential maintenance to a user or group of users on the My SnapCenter Assets page.

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 -EffectiveImmediately
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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