



Host requirements for installing Plug-ins Package for Linux

SnapCenter Software

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June 16, 2021



This PDF was generated from https://docs.netapp.com/us-en/snapcenter/protect-sco/reference_host_requirements_for_installing_the_snapcenter_plug_in_package_for_linux.html on June 18, 2021. Always check docs.netapp.com for the latest.

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Host requirements for installing Plug-ins Package for Linux

You should ensure that the host meets the requirements before installing the SnapCenter Plug-ins Package for Linux.

Item	Requirements
Operating systems	<ul style="list-style-type: none">• Red Hat Enterprise Linux• Oracle Linux <div> If you are using Oracle database on LVM in Oracle Linux or Red Hat Enterprise Linux 6.6 or 7.0 operating systems, you must install the latest version of Logical Volume Manager (LVM).</div> <ul style="list-style-type: none">• SUSE Linux Enterprise Server (SLES)
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 <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	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](#).

Configuring sudo privileges for non-root users for Linux plug-in host

SnapCenter 2.0 and later releases allow a non-root user to install the SnapCenter Plug-ins Package for Linux and to start the plug-in process. You should configure sudo privileges for the non-root user to provide access to several paths.

What you will need

- Sudo 1.8.7 or later.
- Ensure that the non-root user is part of the Oracle installation group.
- Edit the `/etc/ssh/sshd_config` file to configure the message authentication code algorithms: MACs hmac-sha2-256 and MACs hmac-sha2-512.

Restart the sshd service after updating the configuration file.

Example:

```
#Port 22
#AddressFamily any
#ListenAddress 0.0.0.0
#ListenAddress ::
#Legacy changes
#KexAlgorithms diffie-hellman-group1-sha1
#Ciphers aes128-cbc
#The default requires explicit activation of protocol
Protocol 2
HostKey/etc/ssh/ssh_host_rsa_key
MACs hmac-sha2-256
```

About this task

You should configure sudo privileges for the non-root user to provide access to the following paths:

- `/home/SUDO_USER/.sc_netapp/snapcenter_linux_host_plugin.bin`
- `/custom_location/NetApp/snapcenter/spl/installation/plugins/uninstall`
- `/custom_location/NetApp/snapcenter/spl/bin/spl`

Steps

1. Log in to the Linux host on which you want to install the SnapCenter Plug-ins Package for Linux.
2. Add the following lines to the `/etc/sudoers` file by using the visudo Linux utility.

```
Cmnd_Alias SCCMD = sha224:checksum_value== /home/  
SUDO_USER/.sc_netapp/snapcenter_linux_host_plugin.bin,  
/opt/NetApp/snapcenter/spl/installation/plugins/uninstall,  
/opt/NetApp/snapcenter/spl/bin/spl  
Cmnd_Alias PRECHECKCMD = sha224:checksum_value== /home/  
SUDO_USER/.sc_netapp/Linux_Prechecks.sh  
SUDO_USER ALL=(ALL) NOPASSWD:SETENV: SCCMD, PRECHECKCMD  
Defaults: SUDO_USER env_keep=JAVA_HOME  
Defaults: SUDO_USER !visiblepw  
Defaults: SUDO_USER !requiretty
```

SUDO_USER is the name of the non-root user that you created.

You can obtain the checksum value from the **oracle_checksum.txt** file, which is located at *C:\ProgramData\NetApp\SnapCenter\Package Repository*.

If you have specified a custom location, the location will be *custom_path\NetApp\SnapCenter\Package Repository*.



The example should be used only as a reference for creating your own data.

Best Practice: For security reasons, you should remove the sudo entry after completing every installation or upgrade.

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