



Provision SAN storage for Linux servers

ONTAP 9

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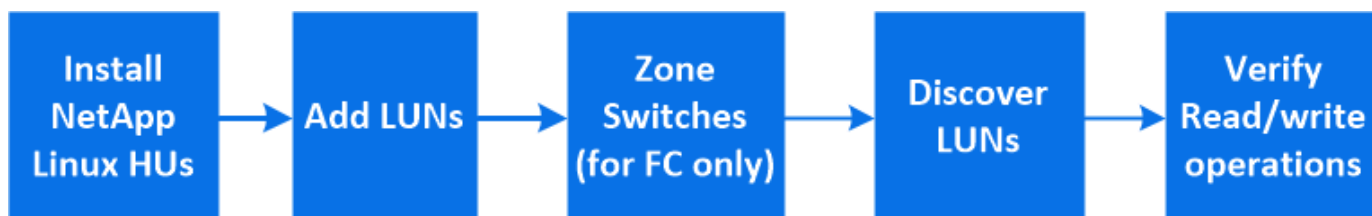
Table of Contents

Provision SAN storage for Linux servers 1

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Create LUNs to provide storage for a Linux server using the FC or iSCSI SAN protocol. LUNs appear to Linux as SCSI disk devices.

This procedure creates new LUNs on an existing storage VM. Your FC or iSCSI protocol should already be set up. You need to know the initiator identifiers (FC WWPN or iSCSI iqn) for your Linux server.



Beginning in ONTAP 9.8, when you provision storage, QoS is enabled by default. You can disable QoS or choose a custom QoS policy during the provisioning process or at a later time.

Steps

1. On your Linux server, install the [NetApp Linux Host Utilities](#) package.
2. In ONTAP System Manager, click **Storage > LUNs** and then click **Add**.
 - a. Enter the required information to create the LUN.
 - b. You can click **More Options** to do the following, depending upon your version of ONTAP.

Option	Available in
Create a new initiator group using existing initiator groups <ul style="list-style-type: none">• More Options > HOST INFORMATION• Select New initiator group using existing initiator groups. <p>NOTE: The OS type for an igroup containing other igroups cannot be changed after it has been created.</p>	ONTAP 9.9.1
Add a description to your igroup or host initiator <p>The description serves as an alias for the igroup or host initiator.</p> <ul style="list-style-type: none">• More Options > HOST INFORMATION	ONTAP 9.9.1

Option	Available in
<p>Create your LUN on an existing volume</p> <p>By default, a new LUN is created in a new volume.</p> <ul style="list-style-type: none"> • More Options > Add LUNs • Select Group related LUNs. 	ONTAP 9.9.1
<p>Disable QoS or choose a custom QoS policy</p> <ul style="list-style-type: none"> • More Options > Storage and Optimization • Select Performance Service Level. <p>NOTE: In ONTAP 9.9.1 and later, if you select a custom QoS policy, you can also select manual placement on a specified local tier.</p>	ONTAP 9.8 or later

3. For FC, zone your FC switches by WWPN. Use one zone per initiator and include all target ports in each zone.

4. On your Linux server, discover the new LUNs:

```
/usr/bin/rescan-scsi-bus.sh
```



Optionally partition the LUNs and create file systems.

5. Verify the Linux server can write and read data on the LUN.

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