



# Prepare for deployment

## SnapManager for SAP

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# Prepare for deployment

Before you deploy SnapManager, you must ensure your storage system and UNIX hosts meet the minimum resource requirements.

## Steps

1. Verify that you have the required licenses.
2. Verify the supported configurations.
3. Verify the supported storage types.
4. Verify that your UNIX hosts meet SnapManager requirements.

## SnapManager licensing

A SnapManager license and several storage system licenses are required to enable SnapManager operations. The SnapManager license is available in two licensing models: *per-server licensing*, in which the SnapManager license resides on each database host; and *per-storage system licensing*, in which the SnapManager license resides on the storage system.

The SnapManager license requirements are as follows:

| License                        | Description   | Where required   |
|--------------------------------|---|--|
| SnapManager per-server         | A host-side license for a specific database host. Licenses are required only for database hosts on which SnapManager is installed. No SnapManager license is required for the storage system. | On the SnapManager host. A SnapManager license is not required on primary and secondary storage systems when using per-server licensing. |
| SnapManager per-storage system | A storage-side license that supports any number of database hosts. Required only if you are not using a per-server license on the database host.  | On primary and secondary storage systems.  |
| SnapRestore                    | A required license that enables SnapManager to restore databases.   | On primary and secondary storage systems. Required on SnapVault destination systems to restore a file from a backup.                     |
| FlexClone                      | An optional license for cloning databases.  | On primary and secondary storage systems. Required on SnapVault destination systems when creating clones from a backup.                  |

| License    | Description  | Where required  |
|------------|--|---|
| SnapMirror | An optional license for mirroring backups to a destination storage system. | On primary and secondary storage systems.   |
| SnapVault  | An optional license for archiving backups to a destination storage system. | On primary and secondary storage systems.   |
| Protocols  | NFS, iSCSI, or FC license is required depending on the protocol used.      | On primary and secondary storage systems. Required on SnapMirror destination systems to serve data if a source volume is unavailable. |

## Supported configurations

The hosts on which you are installing SnapManager must meet the specified software, browser, database, and operating system requirements. You must verify support for your configuration before you install or upgrade SnapManager.

For information about supported configurations, see the [Interoperability Matrix Tool](#).

### Related information

[NetApp Interoperability Matrix Tool](#)

## Supported storage types

SnapManager supports a wide range of storage types on both physical and virtual machines. You must verify support for your storage type before you install or upgrade SnapManager.

| Machine         | Storage type   |
|-----------------|--|
| Physical server | <ul style="list-style-type: none"> <li>NFS-connected volumes</li> <li>FC-connected LUNs</li> <li>iSCSI-connected LUNs</li> </ul>                     |
| VMware ESX      | <ul style="list-style-type: none"> <li>NFS volumes connected directly to the guest system</li> <li>RDM LUNs on the guest operating system</li> </ul> |

## UNIX host requirements

You must install SnapManager for SAP on every host where the database you want to backup is hosted. You must ensure that your hosts meet the minimum requirements for

## SnapManager configuration.

- You must install SnapDrive on the database host before you install SnapManager.
- You can install SnapManager either on physical or virtual machines.
- You must install the same version of SnapManager on all hosts that share the same repository.
- You must install Oracle patch 13366202 if you are using Oracle databases 11.2.0.2 or 11.2.0.3.

If you are using DNFS, you must also install the patches listed in the My Oracle Support (MOS) report 1495104.1 for maximum performance and stability.

To use the SnapManager graphical user interface (GUI), you must have a host running on one of the following platforms. The GUI also requires that Java Runtime Environment (JRE) 1.8 is installed on the host.

- Red Hat Enterprise Linux
- Oracle Enterprise Linux
- SUSE Enterprise Linux
- Solaris SPARC, x86, and x86\_64
- IBM AIX



SnapManager also operates in the VMware ESX virtualized environment.

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