



# **Install SnapManager**

## **SnapManager for SAP**

NetApp  
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# Install SnapManager

You must install SnapManager on each host where the database you want to backup is running.

## What you'll need

You must have installed SnapDrive for UNIX on the database host and established a connection to the storage system.

For information about how to install SnapDrive and establish connection to storage system, see SnapDrive for UNIX documentation.

## About this task

You must install one SnapManager instance per database host. If you are using a Real Application Cluster (RAC) database and want to back up the RAC database, you must install SnapManager on all the hosts of the RAC database.

1. Download the SnapManager for SAP install package for UNIX from the NetApp Support Site and copy it to the host system.

[NetApp Downloads: Software](#)

2. Log in to the database host as the root user.
3. From the command prompt, navigate to the directory where you copied the install package.
4. Make the install package executable:

```
chmod 755 install_package.bin
```

5. Install SnapManager:

```
./install_package.bin
```

6. Press `Enter` to continue.
7. Perform the following steps:
  - a. Change the default value of the operating system user to `ora sid`, where `sid` is the system identifier of the database.
  - b. Press `Enter` to accept the default value for operating system group.

The default value for the group is `dba`.

- c. Press `Enter` to accept the default value for the startup type.

The configuration summary is displayed.

8. Review the configuration summary and press `Enter` to continue.

SnapManager for SAP and the required Java Runtime Environment (JRE) are installed and the `smsap_setup` script is executed automatically.

SnapManager for SAP is installed at `/opt/NetApp/smsap`.

## After you finish

You can verify if the installation was successful by performing the following steps:

1. Start the for SnapManager server by running the following command:

```
smsap_server start
```

A message is displayed stating that the for SnapManager server is running.

2. Verify that the SnapManager for SAP for system is running correctly by entering the following command:

```
smsap system verify
```

The following message is displayed: Operation Id number succeeded.

number is the operation ID number.

## Related information

[NetApp Documentation: SnapDrive for UNIX](#)

[Documentation on the NetApp Support Site: `mysupport.netapp.com`](#)

## Integrate with SAP BR\* Tools

The SAP BR\* Tools that contains SAP tools for Oracle database administration, for example, BRARCHIVE, BRBACKUP, BRCONNECT, BRRECOVER, BRRESTORE, BRSPACE, and BRTOOLS uses the BACKINT interface provided by SnapManager for SAP. To integrate SAP BR\* Tools, you must create a link from the BR\* Tools directory to `/opt/NetApp/smsap/bin/`, where the BACKINT file is installed.

### What you'll need

- You must ensure that you have installed SAP BR\* Tools.

### Steps

1. Create a link from the BR\*Tools directory to the `/opt/NetApp/smsap/bin/backint` file for each SAP instance.



You must use the link instead of copying the file so that when you install a new version of SnapManager, the link will point to the new BACKINT interface version.

2. Set credentials for the user that runs the BR\*Tools commands.

The operating system user needs the credentials of the SnapManager for SAP repository, profile, and server to support the backup and restore of the SAP instance.

3. Specify a different profile name.

By default, SnapManager uses the profile with the same name as the SAP system identifier when processing commands from BR\*Tools. If this system identifier is not unique in your environment, modify the `initSID.utl` SAP initialization file, and create a parameter to specify the correct profile. The `initSID.utl` file is located at `%ORACLE_HOME%\database`.

### Example

A sample `initSID.utl` file is as follows:

```
# Backup Retention policy.
# Specifies the retention / lifecycle of backups on the filer.
#
-----
-----
# Default Value: daily
# Valid Values: unlimited/hourly/daily/weekly/monthly
# retain = daily
# Enabling Fast Restore.
#
-----
-----
# Default Value: fallback
# Valid Values: require/fallback/off
#
# fast = fallback
# Data Protection.
#
-----
-----
# Default Value: empty
# Valid Values: empty/yes/no
# protect =
# profile_name = SID_BRTOOLS
```



The parameter name is always in lowercase and the comments must have a number sign (#).

4. Edit the `initSID.sap` BR\*Tools configuration file by performing the following steps:
  - a. Open the `initSID.sap` file.
  - b. Locate the section containing the backup utility parameter file information.

### Example

```
# backup utility parameter file
# default: no parameter file
# util_par_file =
```

- c. Edit the last line to include the `initSID.utl` file.

### Example

```
# backup utility parameter file
# default: no parameter file
# util_par_file = initSID.utl
```

### After you finish

Register the BACKINT interface in your System Landscape Directory (SLD) by running the `backint register-sld` command.

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