



Database version support and configuration overview

SnapManager for SAP

NetApp
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Database version support and configuration overview

You must know the different database versions and configurations supported with SnapManager. You must perform basic database layout and configuration setup to ensure successful operations.

SnapManager for SAP integrates with Oracle versions 10gR2 (10.2.0.5), 11gR2 (11.2.0.1 and 11.2.0.2), and 12c; with native Oracle technology such as Recovery Manager (RMAN); and across fibre channel (FC) and Internet Small Computer System Interface (iSCSI) protocols.



The Oracle Database 9i is not supported from SnapManager 3.2 and 10g R2 (earlier than 10.2.0.5) is not supported from SnapManager 3.3.1.

General layout and configuration

You can find information about the recommended general database layouts and storage configurations to avoid issues related to disk groups, file types, and tablespaces.

- Do not include files from more than one type of SAN file system in your database.

All files making up a database must reside on the same type of file system.

- SnapManager requires a multiple of 4K block size.

The following are some guidelines for volume separation:

- Data files for only one database must be in the volume.
- You must use separate volumes for each of the following file classifications: database binaries, data files, online redo log files, archived redo log files, and control files.
- You do not need to create a separate volume for temporary database files, because SnapManager does not back up temporary database files.

SAP uses a standard layout for Oracle database installations. In this layout, SAP places copies of the Oracle control file in E:\oracle\SID\origlogA, E:\oracle\SID\origlogB, and E:\oracle\SID\sapdata1 file systems.



Because BR*Tools backups include the Oracle and SAP profiles located in the database subdirectory of the Oracle installation, the Oracle installation must be located on storage.

In the case of a new installation, you can modify the location of the control files by using SAPINST and move the control file normally placed in the sapdata1 file system to a file system that does not reside in the same volume as the data files. (SAPINST is the tool that SAP provides for installing SAP systems.)

For more information, see the *SnapManager for SAP Best Practices*.

Related information

[SnapManager for SAP Best Practices: media.netapp.com/documents/tr-3823.pdf](http://media.netapp.com/documents/tr-3823.pdf)

Sample database volume layouts

You can refer to sample database volume layouts for help in configuring your database.

Single-instance databases

File types	Volume names	Dedicated volume for file types	Automatic Snapshot copies
Oracle binaries	<i>orabin_ host name</i>	Yes	On
Data files	<i>oradata_ sid</i>	Yes	Off
Temporary data files	<i>oratemp_ sid</i>	Yes	Off
Control files	<i>oracntrl01_ sid</i> (Multiplexed) <i>oracntrl02_ sid</i> (Multiplexed)	Yes	Off
Redo logs	<i>oralog01_ sid</i> (Multiplexed) <i>oralog02_ sid</i> (Multiplexed)	Yes	Off
Archive logs	<i>oraarch_ sid</i>	Yes	Off

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