



# Configuring SnapManager

## SnapManager for SAP

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# Configuring SnapManager



After installing SnapManager, you must perform some additional configuration tasks depending on the environment that you are using.

## SnapManager configuration parameters


SnapManager provides a list of configuration parameters that you can edit depending on your requirement. The configuration parameters are stored in the `smsap.config` file. However, the `smsap.config` file might not contain all the supported configuration parameters. You can add the configuration parameters, depending on your requirement.

The following table lists all the supported SnapManager configuration parameters and also explains when to use these parameters:


Parameters	Description
<ul style="list-style-type: none"><li>• <code>retain.hourly.count</code></li><li>• <code>retain.hourly.duration</code></li><li>• <code>retain.monthly.count</code></li><li>• <code>retain.monthly.duration</code></li></ul>	<p>These parameters set the retention policy when you create a profile. For example, you can assign the following values:</p> <pre>retain.hourly.count = 12 retain.hourly.duration = 2 retain.monthly.count = 2 retain.monthly.duration = 6</pre>
<code>restore.tmpVolumeName</code>	<p>This parameter assigns a name to the temporary volume. When SnapManager uses the indirect method for restoring data from secondary storage, it requires a scratch volume on the primary storage to hold a temporary copy of data until it is copied into the database files and the database is recovered. There is no default value. If you do not specify a value, you must enter a name in the restore command that uses the indirect method. For example, you can assign the following values:</p> <pre>restore.tmpVolumeName = <b>smsap_tmp_volume</b></pre>

Parameters	Description
<code>host.credentials.persist</code>	<p>This parameter allows SnapManager to store host credentials. By default, the host credentials are not stored. However, host credentials need to be stored if you have a custom script that runs on a remote clone and requires access to a remote server. You can enable storing of host credentials by assigning <b>true</b> to <code>host.credentials.persist</code>. SnapManager encrypts and saves the host credentials.</p>
<code>restorePlanMaxFilesDisplayed</code>	<p>This parameter enables you to define the maximum number of files to be displayed in the restore preview. By default, SnapManager displays a maximum of 20 files in the restore preview. However, you can change to a value greater than 0. For example, you can assign the following value:</p> <ul style="list-style-type: none"> <li>• <code>restorePlanMaxFilesDisplayed = 30</code></li> </ul> <div style="border-left: 1px solid #ccc; padding-left: 10px; margin-top: 10px;">  If you specify an invalid value, the default number of files are displayed. </div>
<code>snapshot.list.timeout.min</code>	<p>This parameter enables you to define the time in minutes for which SnapManager must wait for the <code>snap list</code> command to execute when you are performing any SnapManager operations. By default, SnapManager waits for 30 minutes. However, you can change to a value greater than 0. For example, you can assign the following value:</p> <ul style="list-style-type: none"> <li>• <code>snapshot.list.timeout.min = 40</code></li> </ul> <div style="border-left: 1px solid #ccc; padding-left: 10px; margin-top: 10px;">  If you specify an invalid value, the default value is used. </div> <p>For any SnapManager operation, if the <code>snap list</code> command execution time exceeds the value assigned to <code>snapshot.list.timeout.min</code>, the operation fails with a timeout error message.</p>




Parameters	Description
<code>pruneIfFileExistsInOtherDestination</code>	<p>This pruning parameter enables you to define the destination of the archive logs files. The archive log files are stored in multiple destinations. While pruning archive log files, SnapManager needs to know the destination of the archive log files. The possible values that you can assign are as follows:</p> <ul style="list-style-type: none"> <li>• When you want to prune the archive log files from a specified destination, you must assign <b>false</b> to <code>pruneIfFileExistsInOtherDestination</code>.</li> <li>• When you want to prune the archive log files from an external destination, you must assign <b>true</b> to <code>pruneIfFileExistsInOtherDestination</code>.</li> </ul>
<code>prune.archivelogs.backedup.from.otherdestination</code>	<p>This pruning parameter enables you to prune the archive log files backed up from the specified archive log destinations or backed up from external archive log destinations. The possible values that you can assign are as follows:</p> <ul style="list-style-type: none"> <li>• When you want to prune the archive log files from the specified destinations and if the archive log files are backed up from the specified destinations by using <code>-prune-dest</code>, you must assign <b>false</b> to <code>prune.archivelogs.backedup.from.otherdestination</code>.</li> <li>• When you want to prune the archive log files from specified destinations and if the archive log files are backed up at least once from any one of the other destinations, you must assign <b>true</b> to <code>prune.archivelogs.backedup.from.otherdestination</code>.</li> </ul>
<code>maximum.archivelog.files.toprune.atATime</code>	<p>This pruning parameter enables you to define the maximum number of archive log files that you can prune at a given time. For example, you can assign the following</p> <pre>value:maximum.archivelog.files.toprune.atATime = 998</pre> <div style="display: flex; align-items: center; margin-top: 10px;">  <p>The value that can be assigned to <code>maximum.archivelog.files.toprune.atATime</code> must be less than 1000.</p> </div>
<code>archivelogs consolidate</code>	<p>This parameter allows SnapManager to free the duplicate archive log backups if you assign <b>true</b> to <code>archivelogs consolidate</code>.</p>



Parameters	Description
<code>suffix.backup.label.with.logs</code>	<p>This parameter enables you to specify the suffix that you want to add to differentiate the label names of the data backup and the archive log backup. For example, when you assign logs to <code>suffix.backup.label.with.logs</code>, <code>_logs</code> is added as a suffix to the archive log backup label. The archive log backup label would then be <code>arch_logs</code>.</p>
<code>backup.archivelogs.beyond.missingfiles</code>	<p>This parameter allows SnapManager to include the missing archive log files in the backup. The archive log files that do not exist in the active file system are not included in the backup. If you want to include all of the archive log files, even those that do not exist in the active file system, you must assign <b>true</b> to <code>backup.archivelogs.beyond.missingfiles</code>.</p> <p>You can assign false to ignore the missing archive log files.</p>
<code>srvctl.timeout</code>	<p>This parameter enables you to define the timeout value for the <code>srvctl</code> command.</p> <div style="border-left: 1px solid #ccc; padding-left: 10px; margin-top: 10px;">  The Server Control (SRVCTL) is a utility to manage RAC instances. </div> <p>When SnapManager takes more time to execute the <code>srvctl</code> command than the timeout value, the SnapManager operation fails with this error message:  Error: Timeout occurred while executing command: <code>srvctl status</code>.</p>
<code>snapshot.restore.storageNameCheck</code>	<p>This parameter allows SnapManager to perform the restore operation with Snapshot copies that were created before migrating from Data ONTAP operating in 7-Mode to clustered Data ONTAP. The default value assigned to the parameter is false. If you have migrated from Data ONTAP operating in 7-Mode to clustered Data ONTAP but want to use the Snapshot copies created before migration, set <code>snapshot.restore.storageNameCheck=true</code>.</p>

Parameters	Description
<code>services.common.disableAbort</code>	<p>This parameter disables cleanup upon failure of long-running operations. You can set <code>services.common.disableAbort=true</code>. For example, if you are performing a clone operation that runs long and then fails because of an Oracle error, you might not want to clean up the clone. If you set <code>services.common.disableAbort=true</code>, the clone will not be deleted. You can fix the Oracle issue and restart the clone operation from the point where it failed.</p>
<ul style="list-style-type: none"> <li>• <code>backup.sleep.dnfs.layout</code></li> <li>• <code>backup.sleep.dnfs.secs</code></li> </ul>	<p>These parameters activate the sleep mechanism in the Direct NFS (dNFS) layout. After you create the backup of control files using dNFS or a Network File System (NFS), SnapManager tries to read the control files, but the files might not be found. To enable the sleep mechanism, ensure that <code>backup.sleep.dnfs.layout=true</code>. The default value is <b>true</b>.</p> <p>When you enable the sleep mechanism, you must assign the sleep time to <code>backup.sleep.dnfs.secs</code>. The sleep time assigned is in seconds and the value depends upon your environment. The default value is 5 seconds.</p> <p>For example:</p> <ul style="list-style-type: none"> <li>• <code>backup.sleep.dnfs.layout=true</code></li> <li>• <code>backup.sleep.dnfs.secs=2</code></li> </ul>

Parameters	Description
<ul style="list-style-type: none"> <li>• <code>override.default.backup.pattern</code></li> <li>• <code>new.default.backup.pattern</code></li> </ul>	<p>When you do not specify the backup label, SnapManager creates a default backup label. These SnapManager parameters allows you to customize the default backup label. To enable customization of the backup label, ensure that the value of <code>override.default.backup.pattern</code> is set to <b>true</b>. The default value is <b>false</b>.</p> <p>To assign the new pattern of the backup label, you can assign keywords such as database name, profile name, scope, mode, and host name to <code>new.default.backup.pattern</code>. The keywords should be separated using an underscore. For example, <code>new.default.backup.pattern=dbname_profile_hostname_scope_mode</code>.</p> <div style="border-left: 1px solid #ccc; padding-left: 10px; margin-top: 10px;">  The timestamp is included automatically at the end of the generated label. </div>
<p><code>allow.underscore.in.clone.sid</code></p>	<p>Oracle supports usage of the underscore in clone SID from Oracle 11gR2. This SnapManager parameter enables you to include an underscore in the clone SID name. To include an underscore in the clone SID name, ensure that the value of <code>allow.underscore.in.clone.sid</code> is set to <b>true</b>. The default value is <b>true</b>.</p> <p>If you are using an Oracle version earlier than Oracle 11gR2 or if you do not want to include an underscore in the clone SID name, set the value to <b>false</b>.</p>
<p><code>oracle.parameters.with.comma</code></p>	<p>This parameter enables you to specify all the Oracle parameters that have comma (,) as the value. While performing any operation SnapManager uses <code>oracle.parameters.with.comma</code> to check all the Oracle parameters and skip the splitting of the values.</p> <p>For example, if the value of <code>nls_numeric_characters=,</code>, then specify <code>oracle.parameters.with.comma=nls_numeric_characters</code>. If there are multiple Oracle parameters with comma as the value, you must specify all the parameters in <code>oracle.parameters.with.comma</code>.</p>



Parameters	Description
<ul style="list-style-type: none"> <li>• <code>archivedLogs.exclude</code></li> <li>• <code>archivedLogs.exclude.fileslike</code></li> <li>• <code>&lt;db-unique-name&gt;.archivedLogs.exclude.fileslike</code></li> </ul>	<p>These parameters allow SnapManager to exclude the archive log files from the profiles and backups if the database is not on a Snapshot copy-enabled storage system and you want to perform SnapManager operations on that storage system.</p> <div style="border-left: 1px solid #ccc; padding-left: 10px; margin-top: 10px;">  You must include the exclude parameters in the configuration file before creating a profile. </div> <p>The values assigned to these parameters can either be a top-level directory or a mount point where the archive log files are present or a subdirectory.</p> <p>To exclude archive log files from being included in the profile and being backed up, you must include one of the following parameters:</p> <ul style="list-style-type: none"> <li>• <code>archivedLogs.exclude</code> to specify a regular expression for excluding archive log files from all profiles or backups.</li> </ul> <p>The archive log files matching the regular expression are excluded from all the profiles and backups.</p> <p>For example, you can set  <code>archivedLogs.exclude = J:\\ARCH\\.*</code>.</p> <div style="border-left: 1px solid #ccc; padding-left: 10px; margin-top: 10px;">  If the destination has a file separator, then an additional slash symbol (\) must be added to the pattern and the pattern must end with a double-slash pattern (\\.*). </div> <ul style="list-style-type: none"> <li>• <code>archivedLogs.exclude.fileslike</code> to specify an SQL expression for excluding archive log files from all profiles or backups.</li> </ul> <p>The archive log files matching the SQL expression are excluded from all the profiles and backups.</p> <p>For example, you can set  <code>archivedLogs.exclude.fileslike = J:\\ARCH2\\%.</code></p> <div style="border-left: 1px solid #ccc; padding-left: 10px; margin-top: 10px;">  If the destination has a file separator, then an additional slash symbol (\) must be added to the pattern and the pattern must end with a double-slash pattern (\\%). </div>

Parameters	Description
	<ul style="list-style-type: none"> <li>• <code>&lt;db-unique-name&gt;.archivedLogs.exclude.fileslike</code> to specify an SQL expression for excluding archive log files only from the profile or the backup created for the database with the specified <i>db-unique-name</i>.</li> </ul> <p>The archive log files matching the SQL expression are excluded from the profile and backups.</p> <p>For example, you can set  <code>mydb.archivedLogs.exclude.fileslike = J:\\ARCH2\\%.</code></p> <div style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p> If the destination has a file separator, then an additional slash symbol (\) must be added to the pattern and the pattern must end with a double-slash pattern (\\%).</p> </div> <div style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p> The BR*Tools do not support the following parameters even if these parameters are configured to exclude archive log files:</p> <ul style="list-style-type: none"> <li>• <code>archivedLogs.exclude.fileslike</code></li> <li>• <code>&lt;db-unique-name&gt;.archivedLogs.exclude.fileslike</code></li> </ul> </div>

## Edit the configuration parameters

Depending on your environment, you can change the default values assigned to the configuration parameter.

### Steps

1. Open the configuration file from the following default location:

```
default installation location\properties\smsap.config
```

2. Change the default values of the configuration parameters.



You can also add supported configuration parameters that are not included in the configuration file, and assign values to them.

3. Restart the SnapManager for SAP server.

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