



# The smo backup create command

## SnapManager Oracle

NetApp  
January 29, 2021

# Table of Contents

- The smo backup create command ..... 1
- Syntax ..... 1
- Parameters ..... 1
- Example command ..... 4

# The smo backup create command

You can run the backup create command to create database backups on one or more storage systems.

## Syntax



Before you run this command, you must create a database profile by using the profile create command.

```
smo backup create
-profile profile_name
\[-full\{-auto \| -online \| -offline\}\]\[-retain \{-hourly \| -daily \|
-weekly \| -monthly \| -unlimited\}\] \[-verify\] |
\[-data \[\[-files files \[files\]\]\] \|
\[-tablespaces tablespaces \[tablespaces\]\] \[-label label\] \{-auto \|
-online \| -offline\}
\[-retain \{-hourly \| -daily \| -weekly \| -monthly \| -unlimited\}\] \[-
verify\] |
\[-archivelogs \[-label label\]\] \[-comment comment\]}
\[-protect \| -noprotect \| -protectnow\]
\[-backup-dest path1 \[ , path2\]\]
\[-exclude-dest path1 \[ , path2\]\]
\[-prunelogs \{-all \| -until-scn until-scn \| -until-date yyyy-MM-
dd:HH:mm:ss\} \| -before \{-months \| -days \| -weeks \| -hours\}\}
-prune-dest prune_dest1,\[prune_dest2\]\]
\[-taskspec taskspec\]
\[-dump\]
-force
\[-quiet \| -verbose\]
```

## Parameters

- **-profile profile\_name**

Specifies the name of the profile related to the database you want to back up. The profile contains the identifier of the database and other database information.

- **-auto option**

If the database is in the mounted or offline state, SnapManager performs an offline backup. If the database is in the open or online state, SnapManager performs an online backup. If you use the -force option with the -offline option, SnapManager forces an offline backup even if the database is currently online.

- **-online option**

Specifies an online database backup.

You can create an online backup of a Real Application Clusters (RAC) database, as long as the primary is in the open state, or the primary is mounted and an instance is in the open state. You can use the `-force` option for online backups if the local instance is in the shutdown state, or no instance is in the open state. The version of Oracle must be 10.2.0.5; otherwise, the database will hang if any instance in the RAC is mounted.

- If the local instance is in the shutdown state and at least one instance is in the open state, you can use the `-force` option to change the local instance to the mounted state.
- If no instance is in open state, you can use the `-force` option to change the local instance to open state.

- **-offline option**

Specifies an offline backup while the database is in the shut down state. If the database is in the open or mounted state, the backup fails. If the `-force` option is used, SnapManager attempts to alter the database state to shut down the database for an offline backup.

- **-full option**

Backs up the entire database. This includes all of the data, archived log, and control files. The archived redo logs and control files are backed up no matter what type of backup you perform. If you want to back up only a portion of the database, use the `-files` option or `-tablespaces` option.

- **-data option**

Specifies the data files.

- **-files list**

Backs up only the specified data files plus the archived log and control files. Separate the list of file names with spaces. If the database is in the open state, SnapManager verifies that the appropriate tablespaces are in online backup mode.

- **-tablespaces tablespaces**

Backs up only the specified database tablespaces plus the archived log and control files. Separate the tablespace names with spaces. If the database is in the open state, SnapManager verifies that the appropriate tablespaces are in online backup mode.

- **-label label**

Specifies an optional name for this backup. This name must be unique within the profile. The name can contain letters, numbers, underscores (`_`), and hyphens (`-`). It cannot start with a hyphen. If you do not specify a label, SnapManager creates a default label in the `scope_type_date` format:

- Scope is either F to indicate a full backup or P to indicate a partial backup.
- Type is C to indicate an offline (cold) backup, H to indicate an online (hot) backup, or A to indicate auto backup, for example, `P_A_20081010060037IST`.
- Date is the year, month, day, and time of the backup.

SnapManager uses a 24-hour clock.

For example, if you performed a full backup with the database offline on 16th January 2007, at 5:45:16 p.m. Eastern Standard Time, SnapManager would create the label `F_C_20070116174516EST`.

- **-comment string**

Specifies an optional comment to describe this backup. Enclose the string in single quotation marks (').



Some shells strip the quotation marks off. In this case, you must include the quotation mark with a backslash (\). For example, you might need to enter the following: `\ ' this is a comment\ '`.

- **-verify option**

Verifies that the files in the backup are not corrupt by running the Oracle dbv utility.



If you specify the -verify option, the backup operation is not completed until the verify operation is complete.

- **-force option**

Forces a state change if the database is not in the correct state. For example, SnapManager might change the state of the database from online to offline, based on the type of backup you specify and the state that the database is in.

With an online RAC database backup, use the -force option if the local instance is in the shutdown state, or no instance is in the open state.



The version of Oracle must be 10.2.0.5; otherwise, the database will hang if any instance in the RAC is mounted.

- If the local instance is in the shutdown state and at least one instance is in the open state, then using the -force option changes the local instance to the mounted state.
- If no instance is in the open state, using the -force option changes the local instance to the open state.

- **-quiet**

Displays only error messages in the console. The default is to display error and warning messages.

- **-verbose**

Displays error, warning, and informational messages in the console.

- **-protect | -noprotect | -protectnow**

Indicates whether the backup should be protected to secondary storage. The -noprotect option specifies that the backup should not be protected to secondary storage. Only full backups are protected. If neither option is specified, SnapManager protects the backup as the default if the backup is a full backup and the profile specifies a protection policy. The -protectnow option is applicable only for Data ONTAP operating in 7-Mode. The option specifies that the backup be protected immediately to secondary storage.

- **-retain { -hourly | -daily | -weekly | -monthly | -unlimited }**

Specifies whether the backup should be retained on an hourly, daily, weekly, monthly, or unlimited basis. If the -retain option is not specified, the retention class defaults to -hourly option. To retain backups forever, use the -unlimited option. The -unlimited option makes the backup ineligible for deletion by the retention policy.

- **-archivelogs option**

Creates archive log backup.

- **-backup-dest path1, [, [path2]]**

Specifies the archive log destinations to be backed up for archive log backup.

- **-exclude-dest path1, [, [path2]]**

Specifies the archive log destinations to be excluded from the backup.

- **-prunelogs {-all | -until-scnuntil-scn | -until-dateyyyy-MM-dd:HH:mm:ss | -before {-months | -days | -weeks | -hours}}**

Deletes the archive log files from the archive log destinations based on options provided while creating a backup. The -all option deletes all of the archive log files from the archive log destinations. The -until-scn option deletes the archive log files until a specified System Change Number (SCN). The -until-date option deletes the archive log files until the specified time period. The -before option deletes the archive log files before the specified time period (days, months, weeks, hours).

- **-prune-dest prune\_dest1,prune\_dest2**

Deletes the archive log files from the archive log destinations while creating the backup.

- **-taskspec taskspec**

Specifies the task specification XML file that can be used for preprocessing activity or post-processing activity of the backup operation. The complete path of the XML file should be provided while giving the -taskspec option.

- **-dump option**

Collects the dump files after a successful or failed database backup operation.

## Example command

The following command creates a full online backup, creates a backup to secondary storage, and sets the retention policy to daily:

```
smo backup create -profile SALES1 -full -online
-label full_backup_sales_May -profile SALESDB -force -retain -daily
Operation Id [8abc01ec0e79356d010e793581f70001] succeeded.
```

### Related information

[Creating database backups](#)

[The smo profile create command](#)

[Restoring protected backups from secondary storage](#)

## Copyright Information

Copyright © 2021 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system- without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

## Trademark Information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.