EMC® NetWorker® Module for SAP with Oracle

Release 4.5

Command Reference Guide

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REV 01

EMC²

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Purpose

This document describes how to use the command-line programs in the EMC NetWorker Module for SAP with Oracle (NMSAP) release 4.5.

Audience

This document is intended for system administrators who are responsible for installing NMSAP and maintaining backup and recovery systems.

Users of this guide must be familiar with these topics:

- SAP terminology and concepts, especially those related to Oracle database backup and recovery
- Backup and recovery procedures
- Disaster recovery procedures

Related documentation

You can find additional EMC publications for this product release and related NetWorker products at EMC Online Support.

The *EMC NetWorker Software Compatibility Guide* at EMC Online Support provides a full list of supported environments and platforms.

Where to get help

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NAME

backint − NetWorker Module for SAP with Oracle (NMSAP) stand-alone binary that implements SAP BC-BRI BACKINT Interface for Oracle database.

SYNOPSIS

backint

DESCRIPTION

The **backint** command should be invoked only by SAP BR*Tools. Please, refer to the SAP manuals for information on how to backup, restore and recover Oracle data, and how to inquire about existing backups.

NAME nsrsapadm − NetWorker Module for SAP with Oracle (NMSAP) scheduled backup administrative program

SYNOPSIS **nsrsapadm -c** *filename*

DESCRIPTION **nsrsapadm -W -s** *server_name* [*query*] [**-Y**]
query: [**-c** *client_name*] [**-g** *group_name*] [**-N** *save_set_name*]

The **nsrsapadm -P -z** *configuration_file_path*

DESCRIPTION The **nsrsapadm -W** command is used to perform conversion of an NMSAP client-side configuration (created *without* the configuration wizard) to an NMSAP server-side configuration (created with the configuration wizard).

When **nsrsapadm** is launched, you are first prompted to enter the SAP user's operating system username and password, which are encrypted into the value of the OS_USR_PASSWD parameter in the configuration file *filename.* If the parameter already exists in the file, it is overwritten.

Then you are pompted to answer the following question:

"Is Oracle Database Authentication used? <Y/N>: "

If your Oracle environment is configured to use database authentication, type 'y' or 'Y' and follow the instructions to enter the SAP user's Oracle username and password, which are encrypted into the ORACLE_USR_PASSWD parameter in the configuration file *filename.* If the parameter already exists in the file, it is overwritten.

If your environment does not use database authentication, enter 'n' or 'N' and follow the instructions to clean up the scheduled backup configuration file if necessary.

For a complete description on setting the username and password for NMSAP scheduled backups, see the NetWorker Module for SAP with Oracle Administrator's Guide.

OPTIONS **Conversion options**

-W Specifies the conversion mode.

−**s** *server_name*
Specifies the NetWorker server for which the configuration conversion is run.

-Y Specifies that the conversion is performed in non-interactive mode. When **-Y** is not specified, **nsrsapadm** displays all the fields to be updated in the NetWorker Client resource, and requests confirmation to proceed with the operation.

query:

−**c** *client_name*
Specifies the NetWorker client name. If *not* specified, the default value is the hostname of the physical host where the **nsrsapadm** command runs. For cluster environments, this option must be set to the virtual client name.

−**g** *group_name*
Specifies the NetWorker group name of the client being converted. If *not*

specified, this criteria is not used to query the server resource database.

−**N** *save_set_name*
Specifies the save set name used in the client resource. If *not* specified, this criteria is not used to query the server resource database.

User name and password encryption options

-P Sets the encrypted user name and password in the specified NMSAP configuration file.

−**z** *configuration_file_path*
Specifies the full pathname of the NMSAP configuration file.

SEE ALSO

nsrsapsv(1m)

NAME

nsrsapprobe − The NMSAP probe program for probe-based backups

SYNOPSIS

nsrsapprobe -s *server* **-c** *client* **-g** *group* [**-t** *state*] [**-o** *cmd_options*] *saveset*

< **cmd_options** >**:**

LOG_THRESHOLD=<**Threshold number**>

NSR_DEBUG_DIR=<**Debug Directory**>

ORACLE_SERVICE=<**Oracle Net service name**>

DESCRIPTION

The nsrsapprobe program is used to automatically start an NMSAP backup when a specified number or size of logs have been generated since the previous probe-based backup. The nsrsapprobe command should not be manually invoked, but, it should be executed as part of a probe-based savegrp.

When nsrsapprobe is first invoked, it returns success and triggers probe-based savegrp backup. Once the backup has successfully completed, the transaction log state is recorded in the State field of the corresponding NSR Probe resource on the NetWorker server. When nsrsapprobe is subsequently invoked, a comparison is made to determine whether the delta between the current number or the current size of the transaction logs and the value recorded in the State field is greater than or equal to <Threshold number> in which case the backup would proceed.

Use of the nsrsapprobe program requires the NetWorker server versions to be 7.5 or later.

OPTIONS

-c Specifies the NetWorker client name.

-g Specifies the NetWorker group name.

-o Specifies the command options set in the NSR Probe resource.

-s Specifies the NetWorker server name.

-t Specifies the state of the NSR Probe resource.

EXAMPLES

The following is an example of nsrsapprobe and arguments that a probe-based savegrp can call:

```
nsrsapprobe -s example.server.com -c example.client.com -g probegroup -o
"LOG_THRESHOLD=50, ORACLE_SERVICE=CER.world" -t
"LAST_INCARNATION=1, LAST_SEQUENCE_NUMBER=55" BACKINT:CER
```

SEE ALSO

savegrp(1m), **nsrsapsv**(8m)

NAME

nsrsapra − NetWorker Module for SAP with Oracle (NMSAP) scheduled backup configuration wizard remote agent

SYNOPSIS

nsrsapra [−**i**] [−**u**]

DESCRIPTION

The **nsrsapra** is part of the NMSAP scheduled backup configuration wizard. The primary function of the **nsrsapra** command is to perform operations on behalf of the wizard on the local or remote NMSAP host. Those operations include, but are not limited to, the database queries to the SAP server.

The secondary function is to register (−**i**) or unregister (−**u**) the wizard as a plug-in on the client host during installation.

The **nsrsapra** command is invoked only by:

(1) The NetWorker Management Console (NMC) during the creation or modification of a scheduled backup configuration.

(2) The packaging subsystem during NMSAP installation or uninstallation.

The **nsrsapra** command should *not* be run on the command line *except* for the case described in the NMSAP installation guide.

NAME

nsrsapsv − NetWorker Module for SAP with Oracle (NMSAP) scheduled backup command

SYNOPSIS

nsrsapsv [**-f** *filename*]

DESCRIPTION

The **nsrsapsv** command provides scheduled backups of SAP with Oracle databases.

nsrsapsv command should not be launched from the command line. It should only be entered in the Backup Command attribute field in the NetWorker Client Resource configured for a NMSAP scheduled backup.

For a complete description of the NMSAP scheduled backup configuration, see the NetWorker Module for SAP with Oracle Administrator's Guide.

OPTIONS

−**f** *filename*

Specifies the absolute path and filename of the NMSAP scheduled backup configuration file. Optional parameter used for scheduled backups configured without the NMSAP configuration wizard and manual backups of SAP systems. This file contains information that is required for NMSAP to find the appropriate SAP with Oracle environment.

For a complete description of the scheduled backup configuration file, see the NetWorker Module for SAP with Oracle Administrator's Guide.

SEE ALSO

nsrsapadm(1m), backint(1m)

NAME

sapclone − NetWorker Module for SAP with Oracle (NMSAP) command to clone NMSAP backint savesets.

SYNOPSIS

sapclone [−**a**] [−**b** *pool*] [−**c** *client*] [−**n**] [−**s** *server*] −**u** *user*

DESCRIPTION

The **sapclone** command is used to clone savesets created by the NMSAP **backint** interface. The **sapclone** program can be run from the NMSAP host. If periodic execution is desired, the **sapclone** command can be scheduled by (**cron**(1m)**)** or some other scheduling mechanism.

The **sapclone** command works with **nsrclone** to write the cloned data to NetWorker server.

Use the nsrclone**(1m)** command directly to clone savesets created by NMSAP RMAN interface.

OPTIONS

−**a** Clone all SAP backint saveset, not just those from the last 24 hours.

−**b** *pool* Clone to this pool instead of the default clone pool.

−**c** *client*
Clone data belonging the given client. NetWorker uses the client's file index to find and clone the client's data.

This option should be used for cloning data backed up from a cluster. For example, you may want to set this option to the name of the cluster's virtual node.

−**n** Test the clone operation. It doesn't actually initiate the cloning operation.

−**s** *server*
Clone data to the specified NetWorker server. Default value for this option is local physical host.

−**u** *user*
Clone data identified by the specified user ID.

SEE ALSO

cron(1m), **nsrclone**(1m), **nsr_pool**(5),