

Quest® NetVault® Backup Plug-in *for SAP*
HANA 12.4

User's Guide



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Legend

-  **WARNING:** A WARNING icon indicates a potential for property damage, personal injury, or death.

-  **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

-  **IMPORTANT NOTE, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

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Introducing NetVault Backup Plug-in *for SAP HANA*

- [NetVault Backup Plug-in for SAP HANA: at a glance](#)
- [Target audience](#)
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NetVault Backup Plug-in *for SAP HANA*: at a glance

Quest® NetVault® Backup Plug-in *for SAP HANA* (Plug-in *for SAP HANA*) increases application availability by providing fast, online backup of your SAP HANA Database. The plug-in integrates with existing SAP HANA tools, such as SAP HANA Studio, SAP HANA cockpit, and SAP HANA HDBSQL, which let you run backups directly from SAP HANA tools. The plug-in supports features such as:

- Backups of the database components, including the tenant and the system database. The plug-in supports:
 - Full Backups
 - Incremental Backups
 - Differential Backups
 - Automatic Log Backups
- Restores of the backups, including:
 - Recovery to the most recent point in time
 - Recovery to a specific point in time
 - Recovery of data only
- Inquiries that let you search for specific information in a backup
- Deletion of backups
- Support for scaling up and scaling out

Target audience

Most operations used with the plug-in require SAP HANA administrator skills, including the initial configuration and defining an efficient backup-and-recovery strategy.

Recommended additional reading

The following documentation is also available:

- *Quest NetVault Backup Installation Guide*: This guide provides details on installing the NetVault Backup Server and Client software.
- *Quest NetVault Backup Administrator's Guide*: This guide explains how to use NetVault Backup and describes the functionality common to all plug-ins.
- *Quest NetVault Backup CLI Reference Guide*: This guide provides a description of the command-line utilities.

You can download these guides from <https://support.quest.com/technical-documents>.

Installing and removing the plug-in

- [Installation prerequisites](#)
- [Reviewing the recommended configuration](#)
- [Installing or upgrading the plug-in](#)
- [Removing the plug-in](#)

Installation prerequisites

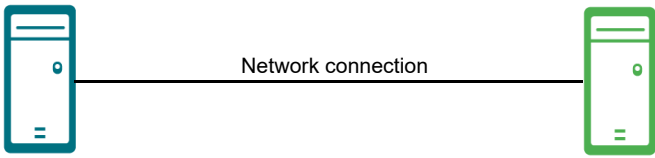
Before installing the Plug-in *for SAP HANA*, verify that the following software is installed and configured:

- **NetVault Backup Server or Client software:** At a minimum, the Client version of NetVault Backup software must be installed on the machine hosting the SAP HANA database. For an example of a suitable environment, see [Reviewing the recommended configuration](#).
- **SAP HANA software:** This database software must be installed and properly configured on the machine serving as the SAP HANA Server.
- **Client added to the NetVault Backup Server for access:** If the machine that hosts the targeted SAP HANA database is not the NetVault Backup Server, this machine must be added to the NetVault Backup Server as a NetVault Backup Client. For more information, see the *Quest NetVault Backup Administrator's Guide*.

Reviewing the recommended configuration

While you can set up a single machine as both the NetVault Backup Server and the SAP HANA Server, that is, all software installation and configuration requirements are performed on a single machine, Quest recommends that these two entities exist on **separate** machines. The following table displays an ideal setup for use with the Plug-in *for SAP HANA*, including the software and configuration requirements to establish this type of environment.

Table 1. Recommended configuration



SAP HANA Server machine	NetVault Backup Server machine
Software installed/configuration	Software installed/configuration
<ul style="list-style-type: none"> • SAP HANA software • NetVault Backup Client software • Plug-in for SAP HANA • SAP HANA Server added as a NetVault Backup Client 	<ul style="list-style-type: none"> • NetVault Backup Server software • Plug-in for SAP HANA

Installing or upgrading the plug-in

- 1 Access the **NetVault Configuration Wizard** or **Manage Clients** page.
 - To access the **NetVault Configuration Wizard** page:
 - a In the Navigation pane, click **Guided Configuration**.
 - b On the **NetVault Configuration Wizard** page, click **Install Plugins**.
 - c On the next page, select the applicable clients.
 - To access the **Manage Clients** page:
 - a In the Navigation pane, click **Manage Clients**.
 - b On the **Manage Clients** page, select the machine that contains the SAP Backint database, and click **Manage**.
 - c On the **View Client** page, click the **Install Plugin** button (+).
- 2 Click **Choose Plug-in File**, navigate to the location of the “.npk” installation file for the plug-in, for example on the installation CD or the directory to which the file was downloaded from the website.

Based on the OS in use, the path for this software may vary on the installation CD.

- 3 Select the file entitled “hana-x-x-x-x.npk,” where xxxxx represents the version number and platform, and click **Open**.
- 4 To begin installation, click **Next**.

After the plug-in is successfully installed, a message is displayed.

i **IMPORTANT:** The Plug-in for SAP HANA *must exist* on the NetVault Backup Server, regardless of the configuration in use. Therefore, if you are using a single machine configuration, installation is complete. If you are using the recommended Client/Server configuration, *repeat the installation process*, this time installing the plug-in on the NetVault Backup Server.

The plug-in installation file depends the OS in use. The same installation file cannot be used for different operating systems. Therefore, if you are using the recommended configuration *and* the NetVault Backup Server and SAP HANA Server are each running a **different** OS, the proper installation files must be obtained and used; that is, from the plug-in installation CD or from the Quest website.

- 5 Install the license for Plug-in for SAP HANA.

- 6 After the plug-in is installed, on the NetVault Backup Server, locate and open the “**allowdupjobname.cfg**” file in a text editor.

This file is located in the **config** directory of your NetVault Backup installation directory.

- 7 Locate the [**plugins to allow duplicate job name**] section, and add **SapHana** under this section.
- 8 Save and close the “allowdupjobname.cfg” file.
- 9 Create a symbolic link for **hdbbackint**.

To do so:

- a Open a PuTTY session to the SAP HANA Server, and log in using the **<SID>adm** user.
Do *not* use the root user to create a symbolic link.
- b Use the change directory—**cd**—command to go to the **/usr/sap/<SID>/SYS/global/hdb/opt** directory.
- c Run the following command to create the link:

```
ln -s <NetVaultBackupInstallDirectory>/bin/hdbbackint hdbbackint
```

- 10 Update the backup settings for backups of data, logs, and catalogs to use Backint.

You can use SAP HANA Studio or you can update the “**global.ini**” file to update these settings. For more information, see your SAP HANA Administration Guide.

- 11 If you are using a multiple-host SAP HANA environment, install the NetVault Backup Client software and the plug-in software on each additional host.

i | **IMPORTANT:** Ensure that you use the same path for the NetVault Backup installation directory on each host so that creating a symbolic link from one host works for all other hosts in the environment.

- 12 Ensure that you use the same path for the NV installation directory on each host so that creating a symbolic link from one host works for all other hosts in the environment.

Removing the plug-in

- 1 In SAP HANA, reset the backup settings for backups of data, logs, and catalogs.
For more information, see your SAP HANA Administration Guide.
- 2 In the Navigation pane, click **Manage Clients**.
- 3 On the **Manage Clients** page, select the applicable client, and click **Manage**.
- 4 In the **Installed Software** table on the **View Client** page, select **Plug-in for SAP HANA**, and click the **Remove Plugin** button (🗑️).
- 5 In the **Confirm** dialog box, click **Remove**.

Configuring the plug-in

- [Entering configuration information](#)
- [Updating the parameter file](#)

Entering configuration information

The plug-in lets you specify name of the NetVault Backup Server that you have installed. You can also enter a name for an optional parameter file.

- 1 In the Navigation Pane, click **Create Backup Job**, and click **Create New** next to the **Selections** list.
- 2 In the selection tree, open the applicable client node.
- 3 Click **SapHana**, and select **Configure** from the context menu.
- 4 Complete the applicable fields:
 - **Server name:** Enter the name of the NetVault Backup Server in this field. This is the name of the NetVault Backup Server that has device control, which is used to process backups.
 - **Default Parameter File:** Enter the path to the applicable SAP Backint parameter file that is used as a reference point for commands issued from a terminal session, that is, for backup and restore operations.

; **IMPORTANT:** If a parameter file is configured using SAP HANA Studio or Cockpit, the plug-in uses the parameter file specified in the SAP HANA tools instead of the file entered in the Default Parameter File field. During a backup or restore job, **hdbbackint** obtains the applicable value for the “-p” argument.

If you do not specify a parameter file, the plug-in uses default values for the applicable parameters.

For more information about the use of parameter files, see the relevant SAP HANA documentation.

- 5 To save the settings, click **OK**.

Updating the parameter file

As noted previously, if a parameter file is configured using SAP HANA Studio or Cockpit, the plug-in uses the parameter file specified in the SAP HANA tools instead of the file entered in the **Default Parameter File** field. The following table lists the available NetVault Backup and Plug-in *for SAP HANA* options, valid entries, and default values that are used.

Table 2. Entries for the optional parameter file

NetVault Backup or Plug-in for SAP HANA option	Value to enter	Default setting
Advanced Options Set	<AdvanceOptionsSetName>	Not applicable (n/a)
Auto Label Media	true false	TRUE

Table 2. Entries for the optional parameter file

NetVault Backup or Plug-in for SAP HANA option	Value to enter	Default setting
Backup Job Count	<count>	30
Backup Target Set	<NameOfBackpTargetSet>	n/a
Device	<DeviceName>[,<DeviceName>[,...]]	
Dont Reuse Media	true false	FALSE
Duplicate	true false	FALSE
Duplicate Schedule Set	<setNameOfScheduleSetToUse>	Immediate
Duplicate Target Set	<setNameOfTargetSetToUse>	Any Device
First on Media	true false	FALSE
Group Label	<NameOfTapeGroup>	n/a
Max Restore Jobs	<count>	1
MID	<TapeLabel>	n/a
Migrate	true false	FALSE
Migration Life	<# days weeks years>	n/a
Minimum Space on Media	<SpaceInMB>	n/a
Network Compression	true false	FALSE
Post Script	<nameOfScriptFile>	n/a
Post script args	<userArgumentsForPostScript>	n/a
Pre Script	<nameOfScriptFile>	n/a
Pre script args	<userArgumentsForPreScript>	n/a
Reuse Media	never any by_group	Never
Title		-Command line backup -Command line restore
Verify	true false	FALSE

Backing up and restoring data

Backing up and restoring data for SAP HANA is performed using SAP HANA utilities, such as SAP HANA Studio, Cockpit, or HDBSQL; backups and restores are *not* performed using the NetVault Backup WebUI.

When a backup job is triggered in SAP HANA, **hdbbackint** creates the job in NetVault Backup. You can use the NetVault Backup WebUI to monitor the status of each job that **hdbbackint** initiates. After the job is finished, you can continue to use the WebUI to review pertinent information.

For more information on any of the SAP HANA utilities, see your SAP HANA Administration Guide.

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