

Quest® NetVault® Backup Plug-in *for SAP on Oracle 11.4.5*

**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 on Oracle*

- [NetVault Backup Plug-in for SAP on Oracle: at a glance](#)
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## NetVault Backup Plug-in *for SAP on Oracle*: at a glance

The NetVault Backup Plug-in *for SAP on Oracle* (Plug-in *for SAP on Oracle*) increases application availability by providing fast, online backup of SAP databases in Linux, UNIX, and Windows environments. The plug-in supports features such as hot backup, integration with SAP tools, parallel backup support, and selectable backup operations. The following storage-management facilities are available with the Plug-in *for SAP on Oracle*:

- **Hot backup:** With the plug-in used with SAP tools, user databases remain online and accessible during backup operations, which minimizes downtime for users.
- **Seamless integration into SAP tools:** The plug-in integrates with existing SAP tools, which lets you run backups directly from SAP.
- **Supports raw data backup:** In UNIX environments, you can back up raw data, including device, buffered files, and pipes.
- **Command Line Interface:** You can submit jobs using a web-based user interface (WebUI) or command-line interface. Most of the features provided by NetVault Backup backup jobs are supported when using SAP Backint command-line options and parameter files.
- **Parallel backup support:** You can split backups into multiple jobs for parallel execution and load balancing.
- **Selectable backup operations:** The plug-in lets you back up only what is needed. Using a command-line interface, you can specify individual files and directories, or back up an entire system.

**i** | **IMPORTANT:** The plug-in has officially received SAP logo certification for integration with SAP NetWeaver through the SAP integration scenario BC-BRI 720. Certified functions include: database backup with BRBACKUP, database restore with BRRESTORE, database recovery with BRRECOVER, backup offline redo log with BRARCHIVE, and inquire orders to Backint.

## Target audience

Most operations used with the plug-in require SAP Backint 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>.

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# 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 on Oracle*, 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 Backint database. For an example of a suitable environment, see [Reviewing the recommended configuration](#).

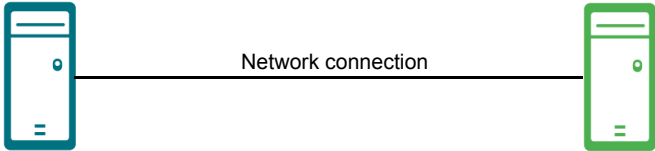
**i** | **IMPORTANT:** Upgrading from 4.x or earlier is *not* supported. If you have an existing installation of the plug-in and you might need to restore associated data using the previous version of the plug-in, Quest recommends that you archive the applicable machine with the existing plug-in and associated data. After you have archived the preceding components, remove the existing plug-in and install the new version. Alternatively, you can install NVBU 8.6.1 or later and the Plug-in *for SAP on Oracle* 5.0 or later on a new machine, and run both machines until the earlier machine can be retired.

- **SAP Backint software:** This database software must be installed and properly configured on the machine serving as the SAP Backint server.
- **Client added to the NetVault Backup Server for access:** If the machine that hosts the targeted SAP Backint 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 Backint 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 on Oracle, including the software and configuration requirements to establish this type of environment.

Table 1. Recommended configuration



SAP Backint Server machine	NetVault Backup Server machine
<b>Software installed/configuration</b> <ul style="list-style-type: none"><li>• SAP Backint software</li><li>• NetVault Backup Server or Client software</li><li>• Plug-in for SAP on Oracle</li></ul>	<b>Software installed/configuration</b> NetVault Backup Server software <ul style="list-style-type: none"><li>• Plug-in for SAP on Oracle</li><li>• SAP Backint Server added as an NetVault Backup Client—for details on adding a Client machine to the NetVault Backup Server, see the <i>Quest NetVault Backup Administrator's Guide</i>.</li><li>• <b>Media format established:</b> The proper tape format to accommodate NetVault Backup Clients running a different operating system (OS), if applicable.</li></ul>

**i** | **IMPORTANT:** Sample images and procedures throughout this guide assume that this **two-machine environment** is in place and all configuration requirements have been met.

## Installing or upgrading the plug-in

- 1 Access the **NetVault Configuration Wizard** or **Manage Clients** page.

**i** | **NOTE:** If the selected clients are all the same type, you can use the configuration wizard to install the plug-in on multiple clients at the same time. When you select multiple clients, verify that the plug-in binary file is compatible with the OS and platforms of the target clients. From the **Manage Clients** page, you can only select one client for plug-in installation.

- 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 “.npg” 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 “bki-x-x-x-x.npg,” 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 on Oracle 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 Backint 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.

## Removing the plug-in

- 1 In the Navigation pane, click **Manage Clients**.
- 2 On the **Manage Clients** page, select the applicable client, and click **Manage**.
- 3 In the **Installed Software** table on the **View Client** page, select **Backint**, and click the **Remove Plugin** button (🗑).
- 4 In the **Confirm** dialog box, click **Remove**.



# Configuring the plug-in

- [Configuring default settings](#)

## Configuring default settings

The plug-in lets you set default options for backup and restore jobs. You can override these options on a per-job basis.

- 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, and select **Backint**.
- 3 From the **Actions** list, select **Configure**.
- 4 Complete the applicable fields:
  - **Server name:** Enter the name of the NetVault Backup Server in this field. This name is the **NetVault Backup name** for the server with device control that is used to process backups.
  - **Job Start Timeout (secs):** Specify the time, in seconds, that NetVault Backup should wait before canceling its attempts to connect to the NetVault Backup Server.
  - **Backup directory contents:** By default, if a directory name is specified instead of a file, the directory contents are not backed up. If you want the files in the specified directory included in the backup, select this check box.
    - **IMPORTANT:** Even if this option is selected, subdirectories contained in the directory specified are *not* backed up. To back up subdirectories, include the “-r” switch at the command line when initiating a backup.
  - **Split backup sub-jobs by volume:** To group jobs that back up files from more than one volume into volume-based subjobs, select this check box.
  - **Use network compression:** To compress data before transmitting it over a network, select this check box. When the data reaches its destination, it is decompressed.
    - **IMPORTANT:** With this option selected, backups might take longer to complete.
  - **Mass open for ‘File-online’:** To open all files for backup simultaneously, select this check box. When you initiate a backup at the command line, include the “-t” switch for the “file\_online” command.
  - **Backup sub-job count:** Enter the maximum number of subjobs that any given job can have. NetVault Backup sizes the subjobs equally. For example, if the data being backed up is 5 gigabytes (GB) and the Backup subjob count is 10, each subjob would be approximately 500 megabytes (MB).
    - **IMPORTANT:** This option functions only if the **Split backup sub-jobs by volume** option is *cleared*.
  - **Maximum restore sub-jobs:** Use this option to specify the maximum number of subjobs—usually running off separate media—that a *restore job* is allowed to use. If set to “1,” a backup spanning multiple pieces of media can only be restored from each item of media in turn.

- **Restore to overwrite newer files:** If you must overwrite existing files that have a more recent modification date, select this check box.
  - **IMPORTANT:** If this option is not selected and older files exist in the backup data, NetVault Backup notes errors in the NetVault Backup Logs during a restore and the restore might fail.
- **Restore to create backup of existing files:** To create a backup copy of an existing file with a different extension before completing a restore, select this check box.
  - **IMPORTANT:** By default, a restore does not back up existing files before overwriting them. Therefore, without this item selected, existing files are overwritten.
- **Restore to restore original timestamps:** If you want the timestamps on restored data reset to what they were when the files were backed up, select this check box.
- **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:** For more information about the use of parameter files, see the relevant SAP Backint documentation.  
If a Backint command is issued from a terminal prompt using the “-p *<par\_file>*” argument, the parameter file specified as the *<par\_file>* is used *instead* of the file entered in the **Default Parameter File** field.

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

# Backing up data

- Backing up data through a terminal session
- Backing up data from a different OS
- Offloading backups to secondary media

## Backing up data through a terminal session

Backing up SAP Backint database information is performed through a terminal session; it is not performed using the NetVault Backup WebUI.

- 1 Start the Plug-in *for SAP on Oracle* by running the “**backint**” binary file on *each* machine on which the plug-in is installed.

This file is located in the following directory, where “...” represents the path to the installation of NetVault Backup:

```
.../netvault/bin/backint
```

**i** | **IMPORTANT:** If necessary, review the relevant OS-related documentation for details on running a binary file.

- 2 To continue the backup process, use one of the following methods:
  - **Issue individual commands from a terminal session:** This method provides the most control, as individual commands are issued for each step of the backup process. Use this type of backup to perform immediate backups of specified data.
  - **Generate a script file:** Create a script file that contains the applicable commands for a complete backup procedure, and then run the script as required. This method works well for scheduling backups to occur later or for multiple backups that require the same series of commands.

**i** | **IMPORTANT:** For more information about the commands available for use with this plug-in, see [Issuing SAP Backint commands](#).

This document does not provide instructions on how to generate a backup script file. Quest recommends that you only use generated-script backups if you have experience in generating scripts for the environment that you are using.

- 3 After you have initiated a backup job from a terminal session, monitor the backup job progress and log entries through the **Job Activity**, **Job Status**, and **View Logs** pages.

For more information, see the *Quest NetVault Backup Administrator's Guide*.

# Backing up data from a different OS

As noted earlier, if a targeted client is running an OS different from the machine administering the targeted backup device, the tape format must match what is supported for the client system's OS.

Because backups are conducted through commands issued from a terminal session, you must create a Target Set that calls the Media Group that you created and then save the Target Set on the NetVault Backup Server. When you run a backup, you call this Target Set.

- 1 In the Navigation pane, click **Create Backup Job**.

You can also start the wizard from the Guided Configuration link. In the Navigation pane, click **Guided Configuration**. On the **NetVault Configuration Wizard** page, click **Create backup jobs**.

- 2 Next to the **Target Storage** list, click **Create New**.

- 3 On the **NetVault Backup Wizard - Create Target Set** page, click **Media Options**, and select the applicable options:

- **MID**: If a piece of media existed in the target device that met the tape-format requirement or if you are using a standalone tape device, select this option. After selecting this option, select the required piece of media based on its **Media Label**.
- **Group Label**: If a **Group Label** was established, select this option, and then select the group that you created.

- 4 Click **Set**, and then click **Save**.

- 5 In the **Create New Set** dialog box, enter a name for the set, and click **Save**.

**i** | **IMPORTANT**: Ensure that the name used is in a format that is supported for entry from a terminal session on the OS in use; for example, use short names and use underscores “\_” in place of spaces. Quest also strongly recommends that you specify a name that is easy to remember.

The set is created and saved. Make note of the name for later use.

## Offloading backups to secondary media

The plug-in sends the backup's saveset ID to BRBACKUP to identify the saveset that contains the backed-up set of files. Although you can use data copy and duplicate features to send the saveset to secondary media, do *not* delete the original saveset because of the corresponding ID assigned to it. The copy sent to the secondary media has a *new* saveset ID, which means that BRTOOLS cannot recognize it if you have to perform a restore.

## Restoring data

- [Restoring data: an overview](#)
- [Viewing backed-up data in the NetVault Backup WebUI](#)
- [Restoring to a different target machine](#)

### Restoring data: an overview

In the same manner as a backup, restore operations are controlled by using commands issued from a terminal session. For more information, see [Backing up data](#).

### Viewing backed-up data in the NetVault Backup WebUI

Unlike the backup process, the restore process lets you use the NetVault Backup WebUI to view data that was backed up. Although you cannot select items and start a restore job, you can browse and examine what was included in a backup.

- 1 In the Navigation pane, click **Create Restore Job**.
- 2 On the **Create Restore Job—Choose Saveset** page, select **Backint** from the **Plugin Type** list.
- 3 To filter the items displayed in the saveset table further, use the **Client**, **Date**, and **Job ID** lists.  
The table displays the saveset name (job title and saveset ID), creation date and time, and size. By default, the list is sorted ~~alphabetically~~ by **saveset name** [creation date](#).
- 4 In the saveset table, select the applicable item.  
When you select a saveset, the following details are displayed in the **Saveset Information** area: Job ID, job title, server name, client name, plug-in name, saveset date and time, retirement setting, Incremental Backup or not, Archive or not, saveset size, and snapshot-based backup or not.
- 5 Click **Next**.
- 6 On the **Create Selection Set** page, note the names of the database files that were included in the backup so that you can use them to perform a restore from a terminal session.

### Restoring to a different target machine

The Plug-in *for SAP on Oracle* lets you restore backed-up data to a different NetVault Backup Client, that is, a different SAP Backint machine.

- 1 Verify that the following prerequisites are met:

- **NetVault Backup 8.6.1 or later and the Plug-in for SAP on Oracle 5.0 (Certified for SAP) are installed:** At a minimum, these versions of software must be installed on the SAP Backint Server and the intended relocation client, that is, the new target.
  - **Partition structure and directory layout duplicated:** The partition structure established as the SAP Backint specification on the original backup target must be duplicated on the new target. If you intend to restore data to a different directory structure, you can use the “-i *<in\_file>*” argument.
  - **New target added as a NetVault Backup Client:** Add the new target machine to the NetVault Backup Server as a NetVault Backup Client. For more information, see the *Quest NetVault Backup Administrator's Guide*.
- 2 Use a terminal session to restore the data, and include the “**Target client <target client name>**” argument in the restore request's syntax.

For example, if you restore data from a backup of a NetVault Backup Client named “SAP\_Client\_1” to a NetVault Backup Client named “SAP\_Client\_2,” include the following syntax along with the other restore commands in the “-p” command:

```
Target client SAP_Client_2
```

- **IMPORTANT:** As noted earlier, additional syntax is required along with the “-p” command to initiate a restore request successfully. For more information, see [Issuing SAP Backint commands](#).

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# Issuing SAP Backint commands

- [Commands: an overview](#)
- [Issuing commands](#)
- [Accessing help from a terminal-session prompt](#)
- [Command table](#)
- [Parameter table](#)
- [Input variables](#)
- [Output variables](#)

## Commands: an overview

This topic offers brief instructions on how to issue basic Plug-in *for SAP on Oracle* commands from a terminal prompt to perform backup and restore operations. It also includes tables that provide details on the various commands that are available for use, and the parameters and variables that can accompany the commands.

## Issuing commands

- 1 Based on the operation to be performed, backup versus restore, verify that all prerequisites have been met; for more information, see [Backing up data](#) and [Restoring data](#).
- 2 From the NetVault Backup Server, initiate a terminal session.
- 3 Preface all commands used to initiate SAP Backint backup and restore operations with the “**backint**” command.
- 4 Follow this step with the applicable commands, based on the operation that you are performing, and include the function, any applicable parameters, and the names of the input, output, and job title.  
For more information, see the subsequent tables.
- 5 With all applicable values input, press the **Enter** key to start the job.

# Accessing help from a terminal-session prompt

- 1 Navigate to the “...netvault/bin” directory.
- 2 Issue one of the following commands:

```
backint -?
```

```
backint --help
```

```
usage: backint -u <user_id> [-f <function>] [-t <type>]
        [-p <par_file>] [-i <in_file>] [-o <out_file>]
        [-T <job_title>] [-c] [-r]
-u <user_id>      User id attached to backup
-f <function>     One of 'backup' 'restore' or 'inquire'
-t <type>         One of 'file' or 'file_online'
-p <par_file>     See below for permitted parameter file contents
-i <in_file>      List of files to be backed up/restored/inquired
-o <out_file>     Results of command
-T <job_title>   Job title
-c               Unattended mode
-r               Recurse directories

Parameter file contents
Option          Value                Default
title           = job_title         Command = backup/restore
```

## Command table

The following table describes the commands available for use with the Plug-in for SAP on Oracle.

Table 2. Available commands

Command	Description	Default/no entry
-u <user_id>	<b>Backup utility user.</b> To attach a user ID to a backup, use this option with the backup operation. When you use this option with inquire or restore operations, only the contents of backups made with an identical ID, or no ID, are listed or restored.	No user ID
-t <type>	<b>Backup type (file, file_online).</b> Backint requests permission to start each file, and informs SAP when each file is completed. This command enables SAP to switch the tablespace to BEGIN/END BACKUP mode only when the backup of the related files takes place. <ul style="list-style-type: none"> <li>• <b>file:</b> No such interactive mode occurs between NetVault Backup and SAP.</li> <li>• <b>file_online:</b> Used only for online backups.</li> </ul>	file



Table 2. Available commands

Command	Description	Default/no entry
<code>-f &lt;function&gt;</code>	<b>Type or operation (backup, restore, inquire).</b> <ul style="list-style-type: none"> <li><b>backup:</b> Defines a backup request, including all the files specified in a list. Backint indicates which files have, or have not, been backed up successfully.</li> <li><b>restore:</b> Requests that a list of files, specified in a list, are restored. Backint indicates which files have, or have not, been successfully restored.</li> <li><b>inquire:</b> Provides information about what files exist in the backup, and in which save sets they are located.</li> </ul>	backup
<code>-p &lt;par_file&gt;</code>	Name of the file that contains the parameters that determine the backup procedure. For a description of the available options, see <a href="#">Parameter table</a> .	Default parameter file; if specified in the <b>Default Parameter File</b> field of the <b>Configure</b> dialog box for this plug-in; for more information, see <a href="#">Configuring the plug-in</a> .
<code>-i &lt;in_file&gt;</code>	Path name of the file that defines the objects of the function—backup, restore, or inquire. If this parameter is not set, data is read from the standard input.	STDIN
<code>-o &lt;out_file&gt;</code>	Path name of the file where Backint writes the result of the function—backup, restore, or inquire. If this parameter is not set, the messages are written to standard output.	STDOUT
<code>-T &lt;title&gt;</code>	The job title given to the NetVault Backup backup or restore job.	Command line backup/restore
<code>-r</code>	Recurse directories.	FALSE
<code>-c</code>	Unattended mode—no interaction possible.	Attended mode

## Parameter table

The following table describes options that you can use with an SAP Backint parameter file. These options are used with the “-p” argument in the command syntax, and can be used in either of the following ways:

- **With the “-p <par\_file>” command, where <par\_file> represents the applicable parameter filename:** In this case, you can use a parameter file other than the default.
- **With the “-p” command alone, without naming a parameter file:** In this case, the default parameter file specified in the **Configure** dialog box is used.

The following table lists the available options, valid entries, and default values used.

**i** | **IMPORTANT:** The equal sign (=) is the only valid separator that you can use with values in a parameter file, for example, “-p client = Client1.” This requirement applies to both the manual entry of the “-p” command from a terminal session and in an existing parameter file; that is, one called out by using the “-p <parameter filename>” command or the one established as the default in the **Configure** dialog box.

Table 3. Available parameters

Option	Value to enter	Default
Advanced options set	<Advanced options set name>	n/a
auto label media	true   false	TRUE

**Table 3. Available parameters**

Option	Value to enter	Default
backup by volume	true   false	TRUE
backup directories	true   false	FALSE
backup job count	<Sort count>	1
Backup Life	<# days weeks years>	
Backup target set	<nameOfBackupTargetSet> <b>NOTE:</b> If you are backing up data from a client that uses a different OS from the machine that controls the backup device, enter the target set created in the process described in <a href="#">Backing up data from a different OS</a> .	n/a
client	<NetVaultBackupClientName>	n/a
device	<deviceName> [,<device name>[,...]]	<local machine>
dont reuse media	true   false	FALSE
Duplicate	true   false	FALSE
Duplicate schedule set	<setNameOfScheduleSetToBeUsed>	Immediate
Duplicate target set	<setNameOfTargetSetToBeUsed>	Any Device
file online mass open	true   false	FALSE
first on media	true   false	FALSE
Group label	<nameOfTapeGroup>	n/a
max restore jobs	<subjobCount>	1
MID	<tapeLabel>	n/a
Migrate	true   false	FALSE
Migration Life	<# days weeks years>	n/a
minimum space on media	<space in MB>	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
recurse directories	true   false	FALSE
Restore backup	true   false	FALSE
Restore overwrite	true   false	FALSE
Restore timestamps	true   false	TRUE
reuse media	never   any   by_group	Never
Target client	<nameOfTargetNetVaultBackupClient>	<Local Client>
title	<job title>	Command Line
verify	true   false	FALSE

## Important notes

Note the following information regarding use of parameters:

- You only have to enter the “-p” argument once in the command syntax. You can then follow it with as many of the commands listed in the previous table as applicable.

- For those entries that list a default entry, you do not have to enter a value if the default is the preferred outcome. However, any option that shows “n/a” as its default must have a value entered; otherwise, the option is ignored.
- You can override the default values listed in the preceding table by using the default parameter file identified in the **Configure** dialog box. For more information, see [Configuring the plug-in](#).
- You can issue a Backint command that includes the “-p *<parameter filename>*” argument. In this case, the specified parameter file and its default values are used instead of the file specified in the **Configure** dialog box.

## Input variables

The **Input** variable used along with the Backint command, that is, whether in a file specified by the “-i *<in\_file>*” option, or using standard input, depends the applicable function, that is, **backup**, **restore**, or **inquire** and is described in the following table:

**Table 4. Available input variables**

Function	Input format
backup	Full path names of files to back up. One file per line.
inquire	<p><b>&lt;SSID&gt;</b> [<b>&lt;file&gt;</b>]</p> <p><b>&lt;SSID&gt;</b> is either the saveset ID that contains the file, or “#NULL” if all savesets are to be searched.</p> <p><b>&lt;file&gt;</b> is the full path name of the file to list. If omitted, the complete contents of the specified saveset are output.</p>
restore	<p><b>&lt;SSID&gt;</b> <b>&lt;file&gt;</b> [<b>&lt;relocate&gt;</b>]</p> <p><b>&lt;SSID&gt;</b> is the saveset ID that contains the file to restore. This was output by Backint at the time the backup was made. You can also determine it by using the “inquire” function, or by using the saveset table on the <b>Create Restore Job</b> page to list the Backint backups. If <b>&lt;SSID&gt;</b> is #NULL, the most recent <b>&lt;file&gt;</b> from the latest saveset is restored.</p> <p><b>&lt;file&gt;</b> is the full path name of the file to restored</p> <p><b>&lt;relocate&gt;</b> If present, the name of the directory to write the file to. This variable can be used if the original location is no longer available or active.</p>

# Output variables

The **Output** variable is entered along with the Backint command, that is, specified by the “-o **<out\_file>**” option or to standard output if not supplied, depends the applicable function, that is, **backup**, **restore**, or **inquire**, and is described in the following table:

Table 5. Available output variables

Function	Output format
backup	<p><b>&lt;result&gt; &lt;SSID&gt; &lt;filename&gt;</b></p> <p>There is one line of the preceding format for each file specified in the input list.</p> <ul style="list-style-type: none"><li>• <b>&lt;result&gt;</b> is “<b>#SAVED</b>” if the file was successfully written to the backup, or “<b>#ERROR</b>” if the file could not be written. You can use the <b>View Logs</b> page to determine the reason for the failure.</li><li>• <b>&lt;SSID&gt;</b> is the saveset ID that the file was written to. If the result was <b>&lt;ERROR&gt;</b>, none is given.</li><li>• <b>&lt;filename&gt;</b> is the filename, as specified in the input list.</li></ul>
restore	<p><b>&lt;result&gt; &lt;SSID&gt; &lt;filename&gt;</b></p> <p>There is one line of the preceding format for each file specified in the input list.</p> <ul style="list-style-type: none"><li>• <b>&lt;result&gt;</b> is “<b>#RESTORED</b>” if the file was successfully restored, or “<b>#ERROR</b>” if the file could not be restored. You can use the <b>View Logs</b> page to determine the reason for the failure.</li><li>• <b>&lt;SSID&gt;</b> is the saveset ID that the file was written to. If the result was <b>&lt;ERROR&gt;</b>, none is given.</li><li>• <b>&lt;filename&gt;</b> is the filename, as specified in the input list.</li></ul>
inquire	<p><b>&lt;result&gt; &lt;SSID&gt; &lt;filename&gt;</b></p> <p>There is <b>at least</b> one line of the preceding format for each line of the input list.</p> <ul style="list-style-type: none"><li>• <b>&lt;result&gt;</b> is “<b>#BACKUP</b>” for each file on backup matching the requested criteria, or “<b>#NOTFOUND</b>” if no matches were found.</li><li>• <b>&lt;SSID&gt;</b> is the saveset ID that the file was written to. If the result was <b>&lt;ERROR&gt;</b>, none is given.</li><li>• <b>&lt;filename&gt;&gt;</b> is the filename, as specified in the input list.</li></ul>

# Troubleshooting

This topic describes some common errors and their solutions. If an error occurs that is not described in this table, obtain the SAP Backint error number from the NetVault Backup Logs, and then see the relevant SAP documentation for the resolution.

**Table 6. Troubleshooting**

Error message	Explanation
NetVault Backup 10.x service (netvault-pgsql) does not start on Windows.	<p>Check the Windows Event Viewer for the following message: PDT FATAL: lock file "postmaster.pid" already exists.</p> <p>NetVault Backup 10.x uses a PostgreSQL database. If the PostgreSQL database does not start, NetVault Backup cannot start. To correct this issue, delete the "<b>postmaster.pid</b>" file from the location referenced in the log and restart the NetVault Backup Server. For more information, see <a href="https://support.quest.com/netvault-backup/kb/122475">https://support.quest.com/netvault-backup/kb/122475</a>.</p>
<ul style="list-style-type: none"> <li>• Failed to add backup record</li> <li>• Failed to write index of backup to the database</li> </ul> <p>These messages indicate that the selected data was backed up, but the job's index information was not properly added by NetVault Backup to its database. Without this index information, the data cannot be properly restored.</p>	<p><b>Method 1:</b></p> <p>In the Navigation pane, click <b>Explore Storage</b>, select the target media, and click <b>Scan</b>. NetVault Backup stores index information for backup jobs in two locations: in the NetVault Database and on the media targeted by the backup. Performing this scan adds the index information to the NetVault Database. To verify that the information was added, open the saveset table on the <b>Create Restore Job</b> page and locate the specific job. If you can browse it and set up a restore job, the scan process has corrected the problem.</p> <p><b>Method 2:</b></p> <p>If the previous method failed, run the backup job again.</p>

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