

Quest[®] NetVault[®] Backup 12.0, Revision 1 Release Notes

April 2018

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These release notes provide information about the Quest[®] NetVault[®] Backup release.

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About this release

Quest NetVault Backup (NetVault Backup) offers the most advanced, cross-platform data protection capabilities on the market and unsurpassed ease of use, out-of-the-box deployment, and pain-free scalability. NetVault Backup allows you to safeguard your data and applications in both physical and virtual environments from one intuitive user interface and to protect a massive number of servers that contain many petabytes of data. NetVault Backup also features heterogeneous support, so you can safeguard data on a wide range of operating systems, applications, databases, processor architectures, and networked storage devices. Such cross-platform versatility makes it easy for you to tailor NetVault Backup to match the ever-changing and growing landscape of your IT infrastructure.

NetVault Backup 12.0 is a major release, with new features and functionality. For complete product documentation, visit <http://support.quest.com>.

New Features

New features in NetVault Backup 12.0:

- Added catalog searching capability in the NetVault Backup Server running on Windows and Linux operating systems. The following plug-ins support catalog searching:
 - NetVault Backup Plug-in *for FileSystem*
 - NetVault Backup Plug-in *for VMware*
 - NetVault Backup Plug-in *for Hyper-V*
- Added support for snapshot-based backups of Dell Compellent Storage array using Plug-in *for FileSystem* and Plug-in *for Exchange*.
- Added support for Active Directory integration.
 - **IMPORTANT:** To use Active Directory, the Active Directory service must always be available to the NetVault Backup Server.
- Added dashboard in the NetVault Backup WebUI to view the overall statistics of the NetVault Backup.
- NetVault Backup Web UI enhancements:
 - Browser tabs shows the NetVault Backup WebUI page title.
 - Added client file browsing capability for directory selection within NetVault Backup WebUI.
 - Enhanced table filtering.
 - Details drawer is added on the right- side of the corresponding pages.
 - Configurable default settings for NetVault Backup WebUI.
 - Displays Action bar actions to page-level and table-level context menus.

See also:

- [Enhancements](#)
- [Resolved issues](#)

Enhancements

The following is a list of enhancements implemented in NetVault Backup 12.0.

Table 1. Enhancements

Enhancement	Issue ID
Browser tabs shows the NetVault Backup WebUI page title.	NVBU-10307 (25904)
You can add one or more non policy jobs to an existing policy using Add to Policy button on Manage Job Definitions page.	NVBU-12915 (29440)
Enhanced filtering on Job Status page.	NVBU-13773 (30775)
PostgreSQL is upgraded to the version 9.5.10.	NVBU-14704
Added the table filtering option to filter the records in the tables in the NetVault Backup WebUI.	NVBU-14811, NVBU-16117
Enhanced reporting in NetVault Backup for easy check of failed backup jobs on NetVault Backup Plug-in <i>for VMware</i> .	NVBU-15126 (32712)

Table 1. Enhancements

Enhancement	Issue ID
Added a new canned report for Overnight job summary of a backup job running on NetVault Backup Plug-in for <i>VMware</i> .	NVBU-15410
'Selection tree' column is added in the following NetVault Backup reports to view the selected backed up items: "Historic jobs - by date", "Historic Jobs - by size", "Historic Jobs Duration - by date", "Historic Jobs Failed - by date", "Historic Jobs Successful - by date", and "Historic Jobs Warnings - by date".	NVBU-15415 (33075)
Enhanced NetVault Backup WebUI to save or fetch user preferences to or from the server. If the settings are saved on server, you can load the preferences when browser cache is emptied or deleted or when using a different browser or machine.	NVBU-15552 (33242)
NetVault Backup WebUI is enhanced to display the previews of the fields on Create Restore Job page.	NVBU-15935
Localized the fields on the Monitor Job page in the NetVault Backup WebUI.	NVBU-16137 (32419)
Added configuration option to change the default settings for navigation pane and color theme in the NetVault Backup WebUI.	NVBU-16150
Added a predefined event type 'DR Devices Marked Orphan' in the NetVault Backup. This event occurs when a DR device is marked as orphan.	NVBU-16342
Enhanced NetVault Backup WebUI to display the 'Selection Set', 'Plugin', and 'Next Run Time' information of a policy job on Edit Policy page.	NVBU-16418
Added previews on Manage Policies page in the NetVault Backup WebUI.	NVBU-16419
Enhanced NetVault Backup WebUI to modify individual jobs in a policy. You can go to Manage Job Definition page and customize a policy job. It redirects you to Create Backup Job page to edit the job.	NVBU-16445
NetVault Backup is enhanced to allow editing a backup policy in active state.	NVBU-16556
Native Support for HP Ultrium 30750 LTO-8 tape drives and media is added to NetVault Backup.	NVBU-16605
Enhanced NetVault Backup WebUI to display Action bar actions to page-level and table-level context menus.	NVBU-16625
Enhanced NetVault Backup WebUI to display details drawer on the right- side of the corresponding page.	NVBU-16626
Replaced Actions button in backup or restore selection tree with context menu options.	NVBU-16629
The option to add Shared Virtual Tape Libraries (SVTLs) for storing backups from NetVault Backup WebUI is readded. After upgrading to NetVault Backup 12.0 or later, an existing SVTL device, continues to work. You can readd, modify, or create a SVTL device.	NVBU-16720
Enhanced NetVault Backup reporting system to obtain backup selections sets directly from the database for improved performance.	NVBU-16742
Improved initial load time of Job Calendar events.	NVBU-16855
The NetVault Backup Plug-in for <i>Hyper-V</i> supports policy-based backups.	NVBU-16911
The icons used in the NetVault Backup WebUI are updated.	NVBU-17028
NetVault Backup version 12.0 supports INTSVN - IBM TS2380 and TS2280 (LTO-8) devices.	NVBU-17327
NetVault Backup version 12.0 supports INTSVN - HP MSL3040 Tape Library.	NVBU-17328
Updated the GUI to use a generic naming convention for supported disk-based and software-based storage devices. Renamed Quest DR Device options to Quest RDA Device options to support Quest DR Series systems, and so on. Renamed LSU to Container.	DNR3-86, DNR3-299, DNR3-302

Deprecated features

NetVault Backup Workstation Client software cannot be used with the NetVault Backup server 12.0 or later.

Resolved issues

The following is a list of issues addressed in NetVault Backup 12.0.

Table 2. Resolved issues

Resolved issue	Issue ID
Media Manager Database Migration report is enhanced to provide the correct count for the failure of 'medmgrdrivestats' migration from NetVault Backup version 9.2 to version 10.0.	NVBU-10469 (26107)
Corrected an issue that caused poor search performance while searching the files or folders on Create Restore Job — Choose Saveset page.	NVBU-11834 (27883)
Corrected an issue due to which searching the file or folder names using "numbers" on Create Restore Job — Choose Saveset page was taking long time on medium and large scale NetVault Backup systems.	NVBU-12414 (28667)
Corrected an issue due to which searching the file or folder names on Create Restore Job — Choose Saveset page was not showing any results.	NVBU-13650 (30561)
Added a constraint on medmgrmedia table for uniqueness of logcalid (media label). The constraint does not allow duplicate label for media. Also, the media marked for reuse is getting reused and is not marked as bad.	NVBU-14136 (31329)
Corrected an issue due to which the passwords containing Comma (,) in an encrypted version were not read correctly from the Stanza files.	NVBU-14627
Corrected an issue that caused the mismatch in the count of 'jobs with error' in the Regular Jobs area in the Job Activity section of the Job Status page and job details for that category.	NVBU-14751 (32207)
Added 'X-Content-Type-Options: nosniff' header in <code>webservice</code> responses to minimize inadvertent MIME based activities.	NVBU-14854 (32329)
Addressed an issue due to which multiple segments of the same backup used extra media even though target media has sufficient space when 'Ensure first backup on media' and 'Software Data Compression' options were selected.	NVBU-14960 (32511)
Corrected an issue that listed the saveset expired job on the Job Status page.	NVBU-15157 (32758)
Corrected an issue that caused mismatch between the job counts in job status table and job summary.	NVBU-15178 (32780)
Corrected an issue that caused the increased number of messages in the binary logs while running a data copy duplicate job (duplicate option in phase 2 job).	NVBU-15418 (33078)
Corrected an issue due to which 'Media Job Contents' CLI report was showing incorrect time (backuptime or starttime).	NVBU-15464 (33132)
Addressed an issue due to which the media manager becomes unresponsive, causing devices or drives to take more time to become online or available when NetVault Backup starts. The field 'Media Online Threshold (secs)' in server settings of the NetVault Backup WebUI allows you to configure the time at which media manager updates the device status in the database.	NVBU-15549 (33239)
Corrected an issue that prevented selecting 'Target Media By' and 'Reuse Media' options simultaneously on Media Options dialog box while configuring the media options for a backup job.	NVBU-15726
Organized the NetVault Backup related localStorage and sessionStorage items.	NVBU-15981
Corrected an issue where the number of failed jobs shown under Job Activity for regular failed jobs do not match with the number of failed job in the table on Job Status page.	NVBU-16098

Table 2. Resolved issues

Resolved issue	Issue ID
Corrected an issue due to which the drive paths were unavailable to select specific drive paths while creating a target set on Backup Target page.	NVBU-16239
Addressed an issue in the Table View of the Manage Devices page that caused incorrect display of the tapes in the NetVault Backup WebUI.	NVBU-16287
Corrected an issue where enabling the 'Log Performance Information' parameter shows the following message in <code>/var/log/messages</code> . "sed: couldn't write xxx items to stdout: Broken pipe"	NVBU-16315
Corrected an issue due to which 'Restore Snapshots' button was missing on the Create Restore Job — Choose Saveset page when running a job using NetVault Backup Plug-in for <i>SnapShot Manager</i> and NetVault Backup Plug-in for <i>SnapVault Manager</i> .	NVBU-16452
Corrected an issue in which upgrading NetVault Backup version 9.2 to version 11.4 failed to migrate media database.	NVBU-16542
Corrected an issue due to which searching the file from saveset on Create Restore Job — Choose Saveset page failed when index folder size was more than 40 GB.	NVBU-16608
Corrected an issue due to which, media "marked for reuse" is getting marked as bad. This issue occurred while running a backup job on a media "marked for reuse".	NVBU-16656
corrected the total number of connect ports for NetVault Backup message channels in an example mentioned in the Quest NetVault Backup <i>Administrator's Guide</i> .	NVBU-16753
Corrected an issue that created inconsistent generation ID for Consolidated backup jobs impacting subsequent incremental backup and restore operations.	NVBU-16758
Corrected the description of firewall port range configuration requirement at client and the total number of 'Listen ports for NetVault Backup message channels' in an example mentioned in the Quest NetVault Backup <i>Administrator's Guide</i> .	NVBU-16759
Resolved the vulnerability that allowed NetVault Backup job log export method to overwrite the file for Text log and Database Table Dump log. Now, the log file format is restored that restricts an unauthorized request when exporting logs.	NVBU-16775
Resolved the vulnerability that allowed Multipart form data upload causing NetVault executable failure.	NVBU-16776
Resolved the vulnerability that allowed accessing NetVault Backup without authentication by setting the 'checksession' parameter to 'false'.	NVBU-16777
Clarified the prerequisites for installing the NetVault Backup Server or Client software on Linux-based machines, mentioned in the Quest NetVault Backup <i>Installation Guide</i> .	NVBU-16804
Corrected an issue due to which exact timezone suffix was not shown for the time fields in exported or downloaded reports in NetVault Backup.	NVBU-16874
Corrected an issue that resulted in the overestimation of the 'Total source Data protected size' if jobs share the same selection set in the 'Chargeback Capacity Usage' report.	NVBU-16890
Clarified the description of the parameter "Allow Streams to Share Media" in <i>Quest NetVault Backup Administrator's Guide</i> and <i>Quest NetVault Backup Built-in Plug-ins User's Guide</i> .	NVBU-16902
Clarified the platform-specific post-installation requirements for Windows 2008 R2, mentioned in the <i>Quest NetVault Backup Installation Guide</i> .	NVBU-16964
Corrected an issue that caused user migration to fail while migrating from NetVault Backup version 9.2, when any event type of event class = 'BakBone Time' is added to that user.	NVBU-16999
Corrected an issue that reduced the Media Manager performance because <code>nvmedmgr</code> was getting frequent <code>RAS_STATUS_MSG</code> from <code>nvrascontroller</code> .	NVBU-17374
Corrected an issue due to which when running differential backup job using NetVault Backup Plug-in for <i>File System</i> , the Logs show "Job is incremental" instead of differential.	DNFSP-814 (26419)

Table 2. Resolved issues

Resolved issue	Issue ID
Corrected an issue that prevented a restore job from new backups to complete in first attempt using plug-in for <i>File System</i> . However, the restore job from old backup completes in multiple iterations.	DNFSP-971
Corrected an issue that restricted the More info button on View Logs page to display detail information when a restore job is completed with warning message using NetVault Backup Plug-in for <i>File System</i> .	DNFSP-972

Known issues

The following is a list of issues, including those issues attributed to third-party products, known to exist at the time of release.

Table 3. General known issues

Known issue	Issue ID
In NetVault Backup WebUI, while editing a restore selection set, on Edit Selection Set page, the Next button is disabled. Workaround: Select or clear the data selection tree check box on Edit Selection Set page.	NVBU-16148
Unable to edit Restore Selection Set for Plug-in for <i>Raw Devices</i> . Workaround: Create a new restore selection set for restore instead of modifying the existing one.	NVBU-16353
NetVault Backup version 11.4 or later build is not available for HP-UX Itanium platform.	NVBU-15904
NetVault Backup version 11.4 or later build is not available for Mac OS X platform.	NVBU-15903
Sometimes the diagnostic data for few NetVault Backup client machines with old configuration is partially collected due to timeout. Workaround: Increase the value in the field 'Physical Client Long Timeout' in the Web Service timeout settings from NetVault Backup WebUI.	NVBU-15735
Quest DR Device is not accessible after you change the DR Device user password.	NVBU-15843
CLI displaying non English characters incorrectly. For example, <pre>C:\Program Files\Quest\NetVault Backup\util>nvscanmedia.exe -medialabel "FOREIGN:VM_WIN2008R2_FR 14 avr 11:14-1" Sent scan media request... Scan request failed - 'M @dia inconnu'</pre>	NVBU-13974 (31104), NVBU-13736 (30702)
The restore job from NDMP backup data copied to 256Kib drive fails and displays error message 'NDMP data does not start on a block boundary'. Workaround: https://support.quest.com/netvault-backup/kb/212701	DNNDMP-657 (31825)
NetVault Backup is unable to send the report as an email attachment in PDF format on RHEL 5.x platform. Workaround: To send the report as an email attachment in HTML format, follow these steps: <ol style="list-style-type: none"> 1 In the Navigation pane, click Change Settings. 2 On the Configuration page, click Server Settings. 3 Under 'User Interface', click Reporting. In the Reporting dialog box, under 'Misc', configure the following setting: <ul style="list-style-type: none"> ▪ Default mail format: Select HTML. 4 Click Apply to apply the new settings and close the dialog box. 	NVBU-14529 (31878)
On Manage Devices page, in Tree View, clicking "Scan" option directly starts scanning the selected slot/drive/library. It does not show the dialog box for "Minimum life for imported backups (days)" and a confirmation message.	NVBU-14745 (32197)

Table 3. General known issues

Known issue	Issue ID
On Manage Devices page, in Tree View, you cannot select multiple media from the list of available media for bulk blank operation.	NVBU-14758 (32214)
On Manage Devices page, in Tree View, you cannot select multiple media from the list of available media for bulk label operation.	NVBU-14759 (32215)
When performing backups with the NetVault Backup Plug-in for <i>Teradata</i> (Plug-in for <i>Teradata</i>), if the number of parallel streams exceeds the SoftStreamLimit set for the target NetVault SmartDisk, the backup job stops responding.	NVBU-389 (1948)
When a backup that is configured as “restartable” is duplicated, only the data backed up in the last restarted instance of the job is duplicated.	NVBU-1160 (3971, (NVG-4022)
In NetVault Backup with non-English locale, Running Status field did not display a current job status as the output of <code>nvreport</code> command and Report Job.	NVBU-1186 (3997, NVG-4206)
On Linux- and UNIX-based systems, the progress message that is displayed during NetVault Backup installation are displayed correctly only if the system is configured to use UTF-8 character set.	NVBU-10588 (26249)
If the Network Manager process (nvnmgr) stops responding due to any error and fails to exit properly, it prevents the NetVault Backup Service from starting on that machine. When this error occurs, manually kill or end the nvnmgr process before restarting the NetVault Backup Service.	NVBU-11005 (26778)
Starting with NetVault Backup 10.0.1, the built-in plug-ins use four-digit version numbers (for example, 10.1.1.1).	NVBU-10927 (26687)
If you install the built-in plug-ins available with 10.0.1 and later on a machine running NetVault Backup 10.0, the About dialog box displays the correct 4-digit version number, but the other WebUI pages (for example, the Manage Clients page) display 3-digit version numbers with incorrect release numbers (for example, it may display 10.0.257 instead of 10.0.1).	
Similarly, if you install a plug-in that uses the old version format on NetVault Backup 10.0.1 and later, the About dialog box displays the correct version number (for example, 2.6.5), but the other WebUI pages display incorrect release and build numbers (for example, 2.6.0.5).	
In such cases, use the About dialog box to determine the correct version number of a built-in plug-in.	
The Drive Transfer Buffer Size option is now set to 8 MiB by default. To ensure that this configuration is supported on your system, verify your OS settings before adding a tape device. If this value is too high, change it to 257 KiB in the template file.	NVBU-11305 (27165)
To change the default setting for the Drive Transfer Buffer Size option:	
1 Open the file “ drives.tpl ” in a text editor. You can find this file in <code><NetVault Backup home>\devices\drives</code> on Windows and <code><NetVault Backup home>/devices/drives</code> on Linux and UNIX.	
2 In the [Device:Total Buffer Size] section, set <code>Value</code> to 257. <code>Value = 257</code>	
3 Save the changes and close the file.	
NOTE: If Drive Transfer Buffer Size is set too high and NetVault Backup fails to allocate the transfer buffers, the backup jobs using tape devices show reduced performance.	
On Windows 2012, the Plug-in for Databases fails to restore a NetVault Database backup that is stored in a NetVault SmartDisk device.	NVBU-11307 (27167)
Workaround: If the NetVault Database backup is stored in NetVault SmartDisk, stop the NetVault Backup Service and run the service in “user space” (that is, <code>nvpmgr debug</code>) before starting the restore job.	

Table 3. General known issues

Known issue	Issue ID
<p>After upgrading to Firefox 31, if you try to log in to the NetVault WebUI, the following error message is displayed:</p> <p>Issuer certificate is invalid. (Error code: sec_error_ca_cert_invalid)</p> <p>The new security library security.use_mozillapkix_verification raises this certification error when you try to access a self-signed certificate.</p> <p>Workaround: To resolve this issue, do the following:</p> <ol style="list-style-type: none"> 1 Type about: config in the Firefox address bar. 2 Locate the preference security.use_mozillapkix_verification, and set it to false. 3 To save the setting, close the browser window. 	<p>NVBU-11321 (27189)</p>
<p>When many backup jobs that target the same disk-based storage device are scheduled to start at the same time or within a small window of time, the following issues occur:</p> <ul style="list-style-type: none"> • The target device is underused regarding the number of streams. • Some jobs remain in the “Waiting for media” state even if the device can run parallel jobs. • The completion time for small jobs increases by a few seconds or minutes. <p>These issues occur because the Media Manager uses a “quiesce time” setting to prevent assigning too many simultaneous jobs to a disk-based backup device. By default, the quiesce time is set to 10 seconds. Thus, after a job is assigned to a disk-based storage device, the Media Manager waits for 10 seconds before assigning the next job to the same device. You can change the default setting for quiesce time in the mediamgr.cfg file.</p> <p>To change quiesce time for disk-based storage devices:</p> <ol style="list-style-type: none"> 1 Open the mediamgr.cfg file in a text editor. You can find this file in <NetVault Backup home>\config on Windows and <NetVault Backup home>/config on Linux. 2 Change the value for the following entry: <pre>[Media Requests:RAS quiesce time] Type=Range Range=0,1000 Value=10</pre> <p>The default value is 10. To start the jobs at the same time, set the value to 0 (Value=0).</p> <ol style="list-style-type: none"> 3 Save the file. 	<p>NVBU-12089 (28204)</p>
<p>Note the following:</p> <ul style="list-style-type: none"> • This setting applies to all disk-based storage devices (DR Series systems, EMC Data Domain Systems, and NetVault SmartDisk devices). • For shared NetVault SmartDisk devices, this value cannot be set to 0. 	
<p>On Windows, if a copy of “.cfg” file is created in the <NetVault Backup home>/config directory, the WebUI may display empty or partly empty dialog boxes when the settings are accessed from the Change Settings page after restarting the service.</p>	<p>NVBU-12734 (29149)</p>
<p>If a deployment task is stopped (or the Deployment Manager or NetVault Backup Service shuts down) while a task is still running, the task status is set to “Complete” and the individual targets are marked as “Completed with Errors” even if the software packages are successfully installed on the target machine.</p>	<p>NVBU-13433 (30274)</p>
<p>The shared directory path for push installations cannot contain non-English characters.</p>	<p>NVBU-13564 (30451)</p>

Table 3. General known issues

Known issue	Issue ID
<p>Under certain conditions, the NetVault Backup Server may be unable to determine the status of the push installation task on a remote client. In such cases, the task status may remain in the “Running” state. This error can occur under the following conditions:</p> <ul style="list-style-type: none"> • The deployment agent (nvclientinstaller) exits unexpectedly. • The deployment agent fails to update its completion status to the server due to unknown errors. • The deployment agent fails to send the status update messages to the correct IP address. This error can occur if the NetVault Backup Server is running on a multihomed machine and the preferred network address is not configured for the server. <p>Subsequent tasks remain in a “Pending” state until you cancel the previous task.</p>	<p>NVBU-13610 (30508)</p>
<p>When performing push installations, if you use any illegal characters in the machine password for a new client, the remote installer reports an error and fails to install the software on the client.</p>	<p>NVBU-13632 (30537)</p>
<p>If the server IP address is used to configure a local package store (for example, \\10.11.12.3\PkgStore), the user credentials are not validated when the package store is added or updated. If you specify invalid credentials, no errors are reported. However, the deployment task fails if the authentication fails and the packages cannot be retrieved from the store. Therefore, Quest recommends that you use the server name when configuring the path to a local store (for example, \\WinServer1\PkgStore).</p>	<p>NVBU-13647 (30558)</p>
<p>Known issues related to Plug-in for RDA on Solaris:</p> <ul style="list-style-type: none"> • Backing up file system data from Solaris clients to DR Series Systems: When you perform file system backups to DR Series systems, the backups run in the Passthrough mode by default. You can change the default setting on the DR Series system to run backups in the Dedupe mode, but you may experience slow backup performance in this mode. • Restoring data from a DR Series System to a Solaris Client: When you run multiple restore jobs at the same time, it can affect the performance of individual jobs and result in low aggregate throughput. 	<p>NVBU-13678 (30596)</p>
<p>Known issues related to DR Series Systems:</p> <ul style="list-style-type: none"> • When performing optimized replication between two DR Series systems, if the source DR Series system becomes unavailable, a normal data copy operation using the NetVault Backup Server or Client is performed when the device becomes available again. • When performing a backup using the NetVault Backup Plug-in for <i>VMware</i> (Plug-in for <i>VMware</i>), if you set the client mode type to dedupe, the throughput is lower when compared with the passthrough mode. If you do not set the client mode on the DR Series system, the Plug-in for <i>RDA</i> automatically chooses the best mode for the backup. • Restore to a NFS location fails when a Duplicate saveset created using the optimized replication option is used for the job. 	
<p>On a Linux system, NetVault Backup fails to access a DR Series system if you do the following:</p> <ol style="list-style-type: none"> 1 Install the Plug-in for <i>RDA</i>. 2 Install NetVault Backup. 3 Stop NetVault Service. 4 Remove the Plug-in for <i>RDA</i>. 	
<p>When you remove the plug-in, it deletes the directory /usr/local/oca-libs, which causes an error when NetVault Backup tries to access the device.</p>	
<p>Workaround: After removing the plug-in, complete the following steps:</p> <ol style="list-style-type: none"> 1 Ensure that the /usr/local/oca-libs directory has been removed. If not, remove the directory. 2 To create a symbolic link, type the following command: <pre>ln -sf /usr/netvault/dynlib/oca-libs /usr/local/oca-libs</pre> 3 Restart the NetVault Backup Service. 	

Table 3. General known issues

Known issue	Issue ID
<p>The Delete Non-Scheduled Jobs option is intended to delete non-scheduled jobs after a specified period. Since the jobs using the Triggered schedule type have no physical scheduled time, they are also deleted after the specified period elapses. If you are using Triggered jobs in your NetVault Backup environment, do not use the Delete Non-Scheduled Jobs setting.</p>	
<p>When using NetVault Backup Plug-in <i>for NDMP</i> (Plug-in <i>for NDMP</i>), if you run multiple jobs with the auto-deletion option set to “On,” the parent and child jobs may still be listed on the Job Status page. To correct this issue, close the NetVault WebUI, and start it again. There is no need to stop and restart the NetVault Backup Service.</p>	
<p>The canned report “Disk Storage Devices — General” is intended for the NetVault SmartDisk devices; this report does not show details about the DR Series systems and Data Domain Systems.</p>	
<p>After restoring the NetVault Database, when you restart the NetVault Backup Service, the job status shows “Scheduler Aborted Whilst Job Running.” This message can be ignored.</p>	
<p>On a Solaris (SPARC or x86-64) system, when the LANG variable is set to en_US.UTF-8, the restore job wizard does not display the filenames on the Create Selection Set page. This issue is not encountered when LANG is set to C.</p>	
<p>On Windows Vista, Windows 2008, and Windows 7, if the OS firewalls are turned on, connectivity issues between the NetVault Backup Client and Server may be encountered occasionally even if the port exceptions have been correctly configured on the NetVault Backup Client. For more information, see https://support.quest.com/kb/SOL79286.</p>	
<p>If the default locale is changed (for example, from UTF8 to EUC or from EUC to UTF8), the EULA may not be displayed properly.</p>	
<p>Workaround: To view the EULA, use a terminal that can display EUC character set.</p>	
<p>Job details are not displayed when you click a policy job in Job Status widget on NetVault Backup Dashboard page.</p>	NVBU-17538
<p>After running a job, when you go to Job Status page to monitor the status of the job, it shows all the jobs with previously applied filters instead of showing all current activity.</p>	NVBU-17582
<p>Workaround: Select the option ‘Current Activity’ in the ‘View By’ job status filter option.</p>	
<p>Unable to restore the data items using catalog search from network share backup.</p>	NVBU-17632
<p>Selecting the catalog search configuration option ‘Add pre-existing backups to catalog’ re-adds already cataloged jobs to the search database. So, the search result displays duplicate entries for the same saveset.</p>	NVBU-17507
<p>Compellent snapshot backup is failing due to replay profile cleanup issue.</p>	NVBU-17651
<p>Workaround: Manually delete the snapshot profile ‘NetVault Backup Replay Profile’ on Dell Compellent Storage array.</p>	
<p>Edit option on Set Management page allows to select multiple backup sets while editing an existing set for a Data Copy backup job.</p>	NVBU-14441 (31745)
<p>If catalog search service on your NetVault Backup system is stopped, and you perform search from Create Restore Job — Choose Saveset page, the search results are not displayed, and ‘Web Service Worker’ process crashes.</p>	NVBU-17606
<p>Workaround: Start catalog search service on NetVault Backup system and then perform searching.</p>	
<p>While restoring a persistent snapshot of a compellent volume, the volume created from snapshot is not deleted from compellent.</p>	NVBU-17314
<p>Workaround: To delete a volume from compellent, login to Dell Compellent Storage array, and manually delete the volume.</p>	
<p>Consolidated incremental snapshot-only backup jobs with Retain Snapshot as Persistent snapshot option, using NetVault Backup Plug-in <i>for File System</i>, fails.</p>	NVBU-16988

Table 4. Active Directory (AD) known issues

Known issue	Issue ID
If you are upgrading from a previous version of NetVault Backup, verify that none of the existing NetVault Backup users have an @ symbol in their User Name. Update the User Name for any users whose name does contain an @ symbol. NetVault Backup assumes that a name that contains @ is a domain user and automatically tries to authenticate it with AD when the user logs on. If an existing user tries to log on and NetVault Backup is unable to authenticate the user with AD because the credentials do not match, login fails.	DNAD-523, DNAD-562
Active Directory user gets respective Active Directory group privileges only during first time login or addition.	DNAD-763

Table 5. Command-Line Interface known issues

Known issue	Issue ID
When the Broadcast details to machines on local networks setting is disabled on a client, the nvclient utility fails to add the client. Workaround: Use the <code>nvclientadd -clientip <Client IP address></code> command to add the client.	NVBU-12527 (28829)
The asf_load_media command fails if the machine name contains any spaces.	
When the asf_release_drive command is issued to various brands of library devices (for example, those containing various Exabyte or 9840 drives), a delay of up to eight (8) minutes may occur before a piece of media is unloaded. Workaround: The workaround is to issue the “ Unload ” command from the NetVault WebUI. <ol style="list-style-type: none"> 1 In the Navigation pane, click Manage Devices, and then in the list of devices, click the applicable drive or the corresponding Manage Device icon. 2 On the Tape Drive Management page, click Unload. The drive remains in and “Idle” state, and media are not unloaded as expected. If the logs for the selected device are viewed, an entry stating “Unload media in drive <X> failed — Device unavailable” is displayed. Repeat Step 2 to unload the media. 	
The range function does not work properly for the nvacslsmedia command. Workaround: The workaround is to explicitly run this command for each media item that you want to allocate or deallocate. You can use a script to do this task.	
When a space character is all that is specified for a library name with the nvcleandrive command, the first library on the Manage Devices page performs a clean operation on the specified drive. For example, if you run the command <code>nvcleandrive libraryname "<space character only>" -librarydrivenumber <X></code> , NetVault Backup automatically targets the first library on the Manage Devices page and perform a clean operation on drive <X>.	
When a null value is specified with the nvexpiresaveset command, any random saveset is expired.	
When you run the nvjobmodify command, the job is submitted to run, even if you do not include the “ -submit ” option in the syntax.	
When a null string is specified with the nvremovedia command, the first entry is deleted from the Media Database.	
The nvsetcleaninglives command does not report any errors if you configure incorrect values for the lives option.	
The “ -include ” option for nvsetcreate cannot be used to specify data selections below the “ Fixed Drives ” node in the selection tree.	
The nvsetmodify command cannot be used to modify Schedule Sets. You can create a set using nvsetcreate , and assign it the same name to overwrite the existing set.	
On Windows-based installations, the nvsyncronizesilomedia command does not update the media status on the Manage Devices page.	

Table 6. Plug-in for FileSystem known issues

Known issue	Issue ID
Snapshot based backup of compellent volume mounted on non compellent volume is not supported.	DNFSP- 996
Inclusion list is not supported with compellent volume's snapshot based backup.	DNFSP-1000
On Snap Appliance Filers, data must only be relocated to existing directories. Items relocated to directories that do not exist cannot be accessed due to permissions settings on the newly created directories.	DNFSP-113 (13979, FSG-188)
On ZFS, if the backup data contains ACLs on extended attributes, the restore job fails when you use the default restore options. If errors occur on restore of metadata, select the Discard Metadata option to restore the data.	DNFSP-456 (14324, FSG-514)
The IIS Metabase node in the System State tree is not visible by default on Windows Vista, Windows 7, and Windows 2008 systems. To enable this node, install the ISS 6 compatibility pack, or create a selection set that includes the IIS config and schema files located under %windir%\system32\inetrv\config .	DNFSP-508 (14376, FSG-563)
On Solaris ZFS and UFS file systems, the files and directories for which only the extended attributes have changed do not qualify for Incremental Backups.	DNFSP-636 (14504, FSG-684)
When restoring a Linux or UNIX backup to a Windows-based NetVault Backup Client, the items are restored successfully, but the job generates the following warning and log context: Log message: <num> items and their contents could not be restored Log context: <filename>: writing to file: Incorrect function These messages can be ignored.	DNFSP-718 (14586, FSG-760)
On Windows 2008 and Windows 2003, the System State node does not include the Removable Storage Manager Database node.	
The Verify After Backup option does not work for a restarted job instance.	
When you submit a policy job created for a UNIX file system on a Windows system, the job status shows “Completed with Warnings,” but no data is backed up.	
The following known issues apply to the Backup Windows File Short Names and Restore Windows File Short Names options: <ul style="list-style-type: none"> <li>• Restoring short names only works if an existing file with the same short name does not exist. <li>• Attempts to back up or restore short names fail if you enable Windows-based Compression or Encryption option on a target system. 	
Although VSS backups complete successfully, the message “Error deleting volume snapshot(s): VSS_E_BAD_STATE” is written to the NetVault Backup logs.	
If a job restores a Windows symbolic link (file created using mklink , not Windows shortcut), where the symbolic link file exists on the target file system and the data file the symbolic link targets also exists, the data in the targeted data file is lost. Ensure that the data files targeted by symbolic links are included in backups. Quest recommends that you delete the existing symbolic links that you want to restore from the target file system before running a restore job. To avoid any risks of data loss, you can also perform backup of data files possibly at risk before running the restore job.	
When a symlink is restored, GuardianOS applies the Xattr attribute user.SnACL to it. This behavior is expected and does not have any negative effects.	

Table 6. Plug-in for FileSystem known issues

Known issue	Issue ID
<p>Backups on GFS and GFS2 can stop responding if the files or directories are frozen.</p> <p>In an environment with many direct automounts on Solaris Clients, a backup job may remain at “Waiting for Job Options” status while the Plug-in for FileSystem attempts to load the automounts temporarily to determine whether they are on remote systems. This delay can be alleviated by selecting the “Backup through Remote Mounts” option. If necessary, clear or exclude remote mounts or add the following stanza to the file nvfs.cfg:</p> <pre>[Performance:DoRecursiveAutoMountScan] Value=FALSE</pre>	

System requirements

Before installing NetVault Backup 12.0, ensure that your system meets the following minimum hardware and software requirements.

Table 7. System requirements

Requirement	Details
Platform	For complete supported platform information, see the <i>Quest NetVault Backup Compatibility Guide</i> available at https://support.quest.com .
Memory	Memory requirements on a target system can vary based on the intended use.
Hard disk space	A NetVault Backup server installation requires about 800 MB of disk space on Windows-based systems and 800 MB of disk space on Linux-based systems.
Operating system	<p>NetVault Backup Server</p> <p>The server can be installed on the following operating systems:</p> <ul style="list-style-type: none"> • Linux (x86 and x86-64) • CentOS • Debian • Red Hat Enterprise Linux (RHEL) • SUSE Linux Enterprise Server (SLES) • Windows (x86 and x86-64) <p>NetVault Backup Client</p> <p>The client can be installed on the following operating systems:</p> <ul style="list-style-type: none"> • AIX • FreeBSD • HP-UX • Linux • Mac OS X • Solaris • Windows • Ubuntu <p>For more information, see the <i>Quest NetVault Backup Compatibility Guide</i> available at https://support.quest.com.</p>

Table 7. System requirements

Requirement	Details
Web browser	The NetVault WebUI supports the following browsers: <ul style="list-style-type: none"> • Internet Explorer 11 and later • Firefox 20 and later • Chrome 28 and later • Safari 6 and later

Upgrade and compatibility

- **NetVault Backup Server OS requirements:** Starting with 10.0, the NetVault Backup Server installation is only supported on Windows and Linux operating systems; the server installation is no longer supported on UNIX and Mac OS X operating systems.

For information about supported operating system versions, see the *Quest NetVault Backup Compatibility Guide* available at <https://support.quest.com>. For additional information, see <https://support.quest.com/kb/SOL126805>.

- **NetVault Database migration:** Upgrade from 9.2 involves the migration of NetVault Database from proprietary format to the PostgreSQL database. The migration can take a significant amount of time depending on the size of your NetVault Database and other factors such as system performance.

i | **NOTE:** Before upgrading from NetVault Backup 9.2, purging unnecessary logs can significantly reduce the database migration time. For more information about purging log files, see the *Quest NetVault Backup Administrator's Guide*.

i | **IMPORTANT:** Before upgrading from 9.2, verify that you create a backup of the NetVault Database. The database format introduced in 10.0 increases the importance of performing NetVault Database backups before upgrading from 9.2. For more information about backing up the NetVault Database with the Plug-in for Databases, see *Quest NetVault Backup Built-in Plug-ins User's Guide*.

- **Select the correct installation package on Linux and Windows:** NetVault Backup offers separate client-only and server-only installation packages for Linux- and Windows-based systems. Both the server and the client packages are available in hybrid and pure 64-bit versions:
 - **Hybrid server and client packages:** The hybrid packages are intended for users who do not have a pure 64-bit-only requirement.

These packages let you upgrade from pure 32-bit and hybrid installations of NetVault Backup. The hybrid packages retain binary compatibility with all previous versions of 32-bit and 64-bit plug-ins. These packages also work on 32-bit systems that do not have 64-bit capability.
 - **Pure 64-bit server and client packages:** The pure 64-bit packages are intended for pure 64-bit operating systems. If you have a specific reason that you cannot use any 32-bit components (for example, you are using a Linux distribution that does not run 32-bit code), use these packages.

The pure 64-bit packages cannot be used to upgrade existing pure 32-bit or hybrid NetVault Backup installations. You must remove the existing pure 32-bit or hybrid version and install the pure 64-bit version separately. To reduce confusion, warning messages have been added to both the upgrade and installation packages to ensure that you understand that they are incompatible.

Depending on your OS type, ensure that you select the correct installation package to install the NetVault Backup Server software:

- **netvault-<RYYYYMMDD>-vx.x.x.x-Server-{LinuxX86Hybrid|WindowsX86Hybrid}:** Use this package to install or upgrade NetVault Backup Server on 32-bit or 64-bit systems.
- **netvault-<RYYYYMMDD>-vx.x.x.x-Server-{LinuxX86Pure64|WindowsX86Pure64}:** Use this package to install or upgrade NetVault Backup Server on pure 64-bit systems.

For client installations, ensure that you select the appropriate package based on your system.

i | IMPORTANT: Before installing the hybrid package of NetVault Backup on 64-bit Linux machines, ensure that all the required 32-bit libraries are installed on the system. For more information about the requirements, see the *Quest NetVault Backup Installation Guide*. The installation process may fail silently if the installer is unable to find the required libraries on the system.

Table 8. Pure64 builds

OS	Core Build	Plug-in				
		32-bit	64-bit	Hybrid	Itanium	Pure64
32-bit	32-bit	X		X		
	Hybrid	X		X		
64-bit	Itanium				X	
	64-bit		X	X		
	Hybrid	X	X	X		
	Pure64					X

i | NOTE: X = Compatible

- **Licensed plug-ins:** After upgrading to the latest version of NetVault Backup, you may be unable to create new backup jobs with previously installed licensed plug-ins. This issue occurs in the following upgrade scenarios:
 - 9.2 -> 10.0 -> any later version
 - Pre-9.2 -> 9.x -> any later version

The issue can be fixed by reinstalling the plug-ins. The issue does not occur when you upgrade directly from 9.2 to 10.0.1 or a later version or when you upgrade from any 10.x version without a previous upgrade from 9.2.

- **SNMP Trap Notification Object Identifier (OID):** After you upgrade from NetVault Backup 9.2, the OID for the SNMP Trap Notification method is changed.
- **NetVault Backup Plug-in for NetWare (Plug-in for NetWare):** NetVault Backup 10.0 and later do not support Plug-in for NetWare.
- **Plug-in for VMware and NetVault Backup Plug-in for Hyper-V (Plug-in for Hyper-V):** After installing the Plug-in for VMware or Plug-in for Hyper-V, if you upgrade the NetVault Backup software, you must re-install the plug-in on that machine. If you do not reinstall the plug-ins, you cannot open the **Drives** node of a mounted virtual machine to create any new file-level backup jobs.
- **Device names containing multibyte characters:** After upgrading from NetVault Backup Server 9.2, a device that uses multibyte characters in its name must be removed and added again.

Product licensing

To obtain the license key for your NetVault Backup Server environment, determine the NetVault Machine ID of your main NetVault Backup Server. Also identify the machine IDs of any clients running application plug-ins, such as Oracle, MySQL, PostgreSQL, SQL Server, and Exchange.

You can use the NetVault Configuration Wizard to install the product license keys. Alternatively, you can install the license keys from the Manage Clients page.

- [Obtaining a machine ID](#)
- [Installing a license key using the configuration wizard](#)
- [Installing a license key from the Manage Clients page](#)

Obtaining a machine ID

- 1 Start the NetVault Backup WebUI.
- 2 In the Navigation pane, click **Manage Clients**.
- 3 In the **NetVault Backup Clients** list, select the applicable machine, and click **Manage**.
- 4 On the **View Client** page, note the machine ID exactly as it is displayed in the **Client Summary** table.

Installing a license key using the configuration wizard

- 1 In the Navigation pane, click **Guided Configuration**.
- 2 On the **NetVault Configuration Wizard** page, click **Install Licenses**.
- 3 In the **NetVault Backup Clients** list, select the applicable machine, and click **Next**.
- 4 In the **Enter the license key string** box, type or copy and paste the license key, and click **Apply**.
After the key is applied successfully, a message is displayed.

Installing a license key from the Manage Clients page

- 1 In the Navigation pane, click **Manage Clients**.
- 2 In the **NetVault Backup Clients** list, select the applicable machine, and click **Manage**.
- 3 On the **View Client** page, click **Install License**.
- 4 In the **Install License** dialog box, type or copy and paste the license key, and click **Apply**.
After the key is applied successfully, a message is displayed.
- 5 To dismiss the dialog box, click **Close**.

Upgrade and installation instructions

- Before installing or upgrading NetVault Backup to version 11.4.5 or later, you must upgrade the attached DR appliance to version 4.0.3 or later.
- After upgrading NetVault Backup to version 11.4.5.15 or later, you must re-run FULL backup jobs before resuming the scheduled backup jobs (Incremental/Differential/Consolidated) using NetVault Backup Plug-in for *File System*.
- To ensure the smooth operation of NetVault Backup, after upgrading NetVault Backup to version 12.0, you must clear the browser cache.

For information about installing and upgrading the NetVault Backup Server and Client software, see the *Quest NetVault Backup Installation Guide*.

More resources

Additional information is available from the following:

- [Online product documentation](#)
- [NetVault community](#)

Globalization

This section contains information about installing and operating this product in non-English configurations, such as those needed by customers outside of North America. This section does not replace the materials about supported platforms and configurations found elsewhere in the product documentation.

This release is Unicode-enabled and supports any character set. It supports simultaneous operation with multilingual data. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America, Central and Eastern Europe, Far-East Asia, and Japan.

The release is localized to the following languages: Chinese (Simplified), French, German, Japanese, and Korean.

This release has the following known capabilities or limitations: Previously in NetVault Backup, Quest predominantly supported Multibyte Character Sets, but had some Unicode Support. Starting with 10.0, Quest predominantly support Unicode, however, still supports MBCS sometimes.

About us

We are more than just a name

We are on a quest to make your information technology work harder for you. That is why we build community-driven software solutions that help you spend less time on IT administration and more time on business innovation. We help you modernize your data center, get you to the cloud quicker and provide the expertise, security and accessibility you need to grow your data-driven business. Combined with Quest's invitation to the global community to be a part of its innovation, and our firm commitment to ensuring customer satisfaction, we continue

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For sales or other inquiries, visit www.quest.com/contact.

Technical support resources

Technical support is available to Quest customers with a valid maintenance contract and customers who have trial versions. You can access the Quest Support Portal at <https://support.quest.com>.

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- Engage in community discussions.
- Chat with support engineers online.
- View services to assist you with your product.

Third-party contributions

This product contains the following third-party components. For third-party license information, go to <http://www.quest.com/legal/license-agreements.aspx>. Source code for components marked with an asterisk (*) is available at <http://opensource.quest.com>.

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Iconv 1.9.1	GNU Library General License 2
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JRE8.0 8	<p>© 1995, 1996, Sun Microsystems, Inc. All rights reserved.</p> <p>2550 Garcia Avenue, Mountain View, California 94043-1100 U.S.A.</p> <p>Use of the Commercial Features for any commercial or production purpose requires a separate license from Oracle. “Commercial Features” means those features that are identified as such in the Licensing Information User Manual – Oracle Java SE and Oracle Java Embedded Products Document, accessible at http://www.oracle.com/technetwork/java/javase/documentation/index.html, under the “Description of Product Editions and Permitted Features” section.</p>
Kerberos client libraries 5	MIT Kerberos 5.0

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libintl 0.18.1	<p>LGPL (GNU Lesser General Public License) 2.1</p> <p>© 1991, 1999 Free Software Foundation, Inc.</p> <p>51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA</p>
libjpeg 8.4.0	<p>Freeware Public domain 1.0</p> <p>© 2000, 2001, 2002, 2003, 2004, 2006, 2007 Keith Packard</p> <p>© 2005 Patrick Lam</p> <p>© 2009 Roozbeh Pournader</p> <p>© 2008,2009 Red Hat, Inc.</p> <p>© 2008 Danilo Šegan</p> <p>© 2012 Google, Inc.</p>
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libstdc++ 4.1.1	
libtiff 5.0.6	<p>libtiff 3.8.2</p> <p>© 1988-1997 Sam Leffler</p> <p>© 1991-1997 Silicon Graphics, Inc.</p>
libuuid 16	<p>LGPL (GNU Lesser General Public License) 2.1</p>

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Stack Builder 3.1.0	<p>BSD - PostgreSQL 1.0</p> <p>© 1997-2005 PostgreSQL Global Development Group. All rights reserved. © 2007-2011, EnterpriseDB</p>
zlib 1.2.7	<p>zlib 1.2.7</p> <p>Portions © 1995-2012 Jean-loup Gailly and Mark Adler.</p>

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