

Quest® NetVault® Plug-in *for VMware* 13.1.1 Release Notes

November 2022

These release notes provide information about the Quest® NetVault® Plug-in *for VMware* release.

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About this release

Quest NetVault Plug-in *for VMware* (Plug-in *for VMware*) 13.1.1 is a minor release, with enhanced features and functionality. For complete product documentation, visit <https://support.quest.com/technical-documents>.

New features

New features in Plug-in *for VMware* 13.1.1:

- Added support for continuous data protection (CDP)
 - Added support for with file-level recovery (FLR) with CDP
 - Added support for Instant Restore of CDP backups
 - Added support for migration of backed up virtual machines (VMs)

i | NOTE: CDP is compatible only with QoreStor 7.1.2 as a storage target.

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 1. General known issues

Known issue	Issue ID
When restoring data to an alternate datastore, the plug-in does not verify whether the datastore is available. Verify that the datastore is valid and has sufficient disk space to accommodate the virtual machine.	DNVMWARE-18 (1714)
The configuration setting [Custom:MountOperationTimeoutSecs] , which is stored in the vmware.cfg file, determines how long the plug-in process waits for the mount daemon to respond to a request. The default value is set to 600 seconds during a fresh install and 300 seconds during an upgrade. If the mount daemon is unable to complete a request within the specified interval, the virtual machine is left in a mounted state. If you have many backups running simultaneously or your server is running under heavy load, modify the value for the [Custom:MountOperationTimeoutSecs] setting to avoid this issue.	DNVMWARE-505 (3131)
Virtual Disk Development Kit (VDDK) does not support non-UTF8 locales. On Linux-based clients that use non-UTF8 locales, the plug-in reports the error “Child Process died unexpectedly” and exits abnormally.	DNVMWARE-584 (3340)
You cannot back up virtual machine templates using the Plug-in <i>for VMware</i> . Workaround: Convert the template to a virtual machine.	DNVMWARE-713 (13728, VMW-202)
The file-level indexing process does not generate indexes for symlinks.	DNVMWARE-977 (21793)
The file-level indexing process does not treat hard links in any special way and generates index entries for them as if they are separate entities. When you restore a saveset that includes a hard link, the plug-in stops responding.	DNVMWARE-978 (21794)
When restoring NTFS sparse files, if the actual allocated size of a data run is smaller than the total size of the data run, the restored file might be corrupted.	DNVMWARE-1456 (29043)
Backups that have Active Block Mapping (ABM) enabled might stop working when memory is exceeded.	DNVMWARE-1584
The plug-in is unable to restore a virtual machine protected by VMware vSphere Fault Tolerance (vSphere FT) to an alternate VMware vCenter Server.	DNVMWARE-1691 (32398)
Backing up a virtual machine succeeds if the Virtual Machine Disk (VMDK) fails to open and the Exclude data disks option is selected.	DNVMWARE-1696
If the inventory view is toggled, the selection set is grayed out on the Edit Set and Clone Set operations.	DNVMWARE-1900
ATTENTION: Aborting a restore to the original location deletes the original virtual machine. This issue may result in data loss. Workaround: Before you begin a restore to the original location, clone the original virtual machine.	DNVMWARE-1906

Table 2. Third-party known issues

Known issue	Issue ID
When backing up a powered on virtual machine through a VMware vCenter Server, the plug-in may fail to back up the “.nvram”, “.vmx”, and “.log” files. For more information, see http://kb.vmware.com/kb/1019286 .	
When a snapshot is created on a virtual machine that uses thin-provisioned disks, VMware vSphere (the client and the underlying disk library) identifies the disk as thick. For more information, see http://kb.vmware.com/kb/1020137 .	

Table 2. Third-party known issues

Known issue	Issue ID
At the time of enabling CBT for a virtual machine, no snapshots must exist on it. For more information, see http://kb.vmware.com/kb/1033816 .	
If an ESXi 5.x host is managed by a vCenter Server, the virtual machines should not be restored when connected directly to the ESXi host. This restriction is due to a feature introduced in vSphere 5. For more information, see http://www.vmware.com/support/developer/vddk/VDDK-500-ReleaseNotes.html#knownissues .	
To prevent the migration of a virtual machine while its disks are being accessed for a backup or restore, the plug-in uses VDDK APIs to lock and unlock a virtual machine. This functionality is disabled by default. To enable it, see the user's guide for the plug-in. Currently, the locking functionality has the following known issues: <ul style="list-style-type: none"> Locking a virtual machine may not always succeed even though API indicates success. This issue is under review with VMware. You can usually ignore this failure. Unlocking is known to fail occasionally. This issue has been documented in the VDDK 5 release notes. For details, review the “EndAccess sometimes does not reenale migration after PrepareForAccess” section in the VDDK 5.0 Release Notes. If the plug-in exits unexpectedly after locking a virtual machine, the virtual machine may be left in a locked state so that it is disabled for migration. For information about removing the lock and enabling migration for the virtual machine, see http://kb.vmware.com/kb/2008957 .	
On a Windows 2012 virtual machine, data corruption may occur during or after a network copy operation. For more information, see http://kb.vmware.com/kb/2058692 .	

System requirements

Before installing Plug-in *for VMware*, ensure that your system meets the requirements outlined in the following table and in the *Quest NetVault Compatibility Guide* available at <https://support.quest.com/technical-documents>.

Table 3. System requirements

Requirement	Details
Operating systems	For a list of supported OS distributions and versions, see the VDDK 7.0.3 Release Notes .

Table 3. System requirements

Requirement	Details
NetVault versions	<p>The Plug-in <i>for VMware</i> 13.1.1 requires NetVault 13.1 or later.</p> <p>NOTE: Be aware of the following:</p> <ul style="list-style-type: none"> • If you used the Distributed Jobs feature with an earlier version of the plug-in—the feature was added starting with version 12.0—you must upgrade your NetVault Server and Client software to 13.1.1 as well as updating the plug-in to take advantage of the enhancements. • Existing backup jobs that were created using version 12.0 through 12.3 of the plug-in and used the Distributed Jobs feature continue to function the same way in which they were created. <p>For complete supported-platform information, see the <i>Quest NetVault Compatibility Guide</i> available at https://support.quest.com/technical-documents.</p>
Packages	<p>On a Windows operating system, the Plug-in <i>for VMware</i> 13.1.1 requires Microsoft Visual C++ 2017 or later.</p> <p>Using the plug-in without this package results in a “Failed to get connection to plugin” error.</p>

i | **NOTE:** To use the Virtual Disk Development Kit (VDDK) with OEM ESXi, you require VMware ESXi Foundation, Standard, or Enterprise license. This license can be obtained from OEM or VMware directly.

Upgrade and compatibility

Plug-in *for VMware* 13.1.1 requires NetVault 13.1 or later. For complete supported-platform information, see the *Quest NetVault Compatibility Guide*.

- **Cannot browse mounted virtual machines after upgrading NetVault:** After installing the plug-in, if you upgrade the NetVault software, you must reinstall the plug-in on that machine. Otherwise, you cannot open the **Drives** node of a mounted virtual machine for any new file-level backups.
- **Restart the NetVault Service if “nvvmwmount.exe” was running during upgrade:** If the mount process “nvvmwmount.exe” was running during an upgrade from 2.x, restart the NetVault Service on the client.

Product licensing

To obtain the license key for your NetVault Server environment, determine the NetVault Machine ID of your main NetVault 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 WebUI.
- 2 In the Navigation pane, click **Manage Clients**.
- 3 In the **NetVault 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 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 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

The standard method for upgrading the plug-in is to install the latest version over the previous version of the plug-in. For installation instructions, see the *Quest NetVault Plug-in for VMware User's Guide*.

To use the plug-in for file-level backup operations when upgrading the hybrid version of the plug-in on Windows, complete the following tasks in the given order:

- 1 Verify that no virtual machine is mounted for a file-level browse or backup operation.
If any virtual is mounted in a browse session, unmount it, or if it is mounted for a backup, wait until the backup completes.
- 2 From the NetVault Process Viewer, check if any instance of **NetVault VM mount daemon** or **NetVault VM mount CLI** is running on the client.
Alternatively, use the Windows Task Manager to see if any instance of **nvvmwmount.exe** is running. If so, restart the NetVault Service.
- 3 Verify that the Working Directory configured for the plug-in does not contain any subfolders named after the display names of virtual machines.
If the directory includes any mount folder, manually remove the folder. For more information, see the user's guide. If you fail to complete the cleanup routine, a subsequent mount operation fails with the error "A stale mount was found."
- 4 To ensure that a "Driver not found" error does not occur during the upgrade, follow the steps outlined in [Upgrade procedure](#).

Upgrade procedure

VDDK uses a kernel-mode driver for mounting a virtual machine during file-level backup and browse operations. The Plug-in *for VMware* automatically starts a service for the driver when you install the plug-in, but it does not verify whether the service is running when you perform an upgrade or a reinstallation.

If this service is not running on the client, the plug-in fails to complete the mount request and reports the error "Driver not found."

To upgrade the hybrid version of the plug-in on Windows:

- 1 Open a command prompt window.
- 2 Stop the service, if it is running:

```
sc stop vstor2-mntapi20-shared
```
- 3 Delete the service:

```
sc delete vstor2-mntapi20-shared
```
- 4 Verify that the service has been deleted:

```
sc query vstor2-mntapi20-shared
```


If the service is stuck in a "stopping" state, restart the machine.
- 5 Install the plug-in.

For information about installing the plug-in, see the *Quest NetVault Plug-in for VMware User's 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 supports any single-byte or multi-byte 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, Japan.

NetVault Plug-in for *VMware* 13.1.1 is available in English and Japanese.

About us

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Technical support resources

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The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- Submit and manage a Service Request.
- View Knowledge Base articles.
- Sign up for product notifications.
- Download software and technical documentation.
- View how-to-videos.
- 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 <https://www.quest.com/legal/license-agreements.aspx>. Source code for components marked with an asterisk (*) is available at <https://opensource.quest.com>.

Table 4. List of third-party contributions

Component	License or acknowledgment
libcurl 7.46.0	MIT/X derivate N/A © 1996–2010, Daniel Stenberg. All rights reserved.
OpenSSL 1.0.1j	<p>OpenSSL 1.0 © 1998–2015 The OpenSSL Project. All rights reserved.</p> <p>LICENSE ISSUES</p> <p>The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org.</p> <p>OpenSSL License © 1998-2007 The OpenSSL Project. All rights reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> 1 Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2 Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3 All advertising materials mentioning features or use of this software must display the following acknowledgment: This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/). 4 The names “OpenSSL Toolkit” and “OpenSSL Project” must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact openssl-core@openssl.org. 5 Products derived from this software may not be called “OpenSSL” nor may “OpenSSL” appear in their names without prior written permission of the OpenSSL Project. 6 Redistributions of any form whatsoever must retain the following acknowledgment: This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/). <p>THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT “AS IS” AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</p> <p>This product includes cryptographic software written by Eric Young (ey@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).</p>

Table 4. List of third-party contributions

Component	License or acknowledgment
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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.

