

Quest[®] vRanger[®] 7.8.6 Release Notes

November 15, 2024

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

- Enhancements
- · Resolved issues
- Known issues
- System requirements
- Product licensing
- Upgrade and installation instructions
- More resources
- Globalization
- Third-party contributions



About this release

vRanger Backup & Replication is the market-leading backup, recovery, and backup-management solution for VMware[®] and Hyper-V[®] virtual environments. vRanger automatically discovers new virtual machines (VMs), reduces backup windows, provides smarter backup options, and offers more scalability through its agent-less architecture and features while using fewer resources.

vRanger capabilities:

- · Performs incremental, differential, or full image backups of virtual and physical machines.
- Restores the entire machine or specific files.
- Manages disaster recovery strategies and protects critical data in virtual environments.
- Replicates VMs to more than one destination, which lets you accomplish multiple high-availability and disaster recovery objectives based on your specific needs.

vRanger 7.8.6 is a maintenance release with minor enhancements and defect resolutions. See Enhancements and Resolved issues for more detailed information.



Enhancements

The table below lists the enhancements in this release of vRanger:

Table 1. Enhancements in this release

Enhancement description	ID
Support added for vSphere 8.0.2 and 8.0.3 for vRanger	VR-1484, VR-1516
Security Vulnerability fixes	VR-1512



Resolved issues

The table below lists the defects resolved in this release of vRanger:

Table 1. Resolved issues

Issue description	Issue ID
Unable to backup physical servers with agent versions 7.8.4 and 7.8.5	VR-1478



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. Installation known issues

Known issue Issue ID

The vRanger Service does not start after installing vRanger on Windows Server 2008 R2 SP1.

VR-177

Workaround:

When installing vRanger on Windows Server 2008 R2 SP1, the Windows Management Framework 3.0 must also be installed in order for the vRanger Service to run. Options for installing WMF 3.0 are:

Before installing vRanger:

- 1 First, manually install the Microsoft .Net Framework 4.5.
- 2 Install the Windows Management Framework 3.0 using the installer available in Microsoft KB article KB2506143.
- 3 Install vRanger.

After installing vRanger:

- 1 Install vRanger as documented in the vRanger Installation/Upgrade Guide. If the .Net Framework 4.5 is not already installed on the server, it will be installed automatically during the vRanger installation process.
- 2 Install the Windows Management Framework 3.0 using the installer available in Microsoft KB article KB2506143.
- 3 Confirm the vRanger Service is started.
- 4 Start vRanger.

When installing or upgrading vRanger on a Micrsoft Windows 2012 R2 Server, the vRanger GUI VR-1530 may fail to launch with following error:

"FileNotFoundException. Could not load file or assembly 'Vizioncore.vRanger.FLR.dll' or one of its dependencies. The specified module could not be found."

Workaround:

This issue is caused by a corrupted Visual C++ 14.0 installation on the installation server. To resolve this issue

- 1 Uninstall the current Visual C++ 14.0 instance.
- 2 Install the updates from the following Microsoft Knowledge Base articles:
 - KB2939087
 - KB2975061
 - KB2919355
 - KB2999226
- 3 Reinstall VC++14.0
- 4 Perform fresh install /upgrade for vRanger.

If the Quest vRanger Service is installed with a user other than the currently logged in user, use mixed-mode authentication for SQL Server[®] and authenticate with the system administrator (sa)

17210

Alternatively, Windows®-only authentication can be used if the following workaround is implemented.

Workaround:

- 1 Log in to Windows as the install user.
- 2 Run a command prompt, and type:

```
sqlcmd -S .\vRangerPro
use vRangerPro
go
```

3 Replace **VRANGER\vRangerServiceUser** with the name of the vRanger service user in the following command:

```
EXEC
   sys.sp_addsrvrolemember @loginame=N'VRANGER\vRangerServiceUser',
   @rolename=N'sysadmin'
go
quit
exit
```

4 Stop and start the Quest vRanger Service.

vRanger is able to connect to the service.

When vRanger is installed on Windows 8.1 or Windows Server 2012, using the Uninstall icon to remove the application fails unless the uninstall is performed using the Administrator role.

Workaround 1:

- 1 Move the cursor to the upper-right or lower-right corner of the screen.
- 2 When the Charms bar appears, select the **Start** icon.
- 3 Right-click in an empty space on the **Start** screen, and select **All Apps**.
- 4 Using the scroll bar at the bottom, scroll right to the Quest section.
- 5 Look for the Uninstall tile above the vRanger Backup & Replication tile.
- 6 Right-click the **Uninstall** tile, and select **Run as Administrator**. The uninstall starts as it normally does.

Workaround 2:

You may also uninstall vRanger using the Programs and Features application in the Control Panel.

When a proxy server is configured on the vRanger machine, vRanger may not be able to connect to VMware[®] vCenter™ Servers or NetVault SmartDisk repositories.

Workaround:

- 1 Log in to the vRanger machine using the account used to run the three vRanger services.
 If you are unsure what the account is, use Microsoft Management Console (MMC) to check the services.msc file.
- 2 Open Internet Explorer® (IE) while logged-in with the account.
- 3 Go to Internet Options > Connections > LAN settings; this location varies depending on the version of IE installed on the machine.
- 4 Make sure that *no* proxy information is defined, and no proxy server is being used.
- 5 Clear the **automatically detect settings** check box, in case your particular environment has an automatic proxy script set up.

If vRanger is installed using a local admin account, and that account is changed after vRanger is uninstalled, you must use SQL Server authentication for the database installer for both vRanger and Cataloging when you reinstall vRanger.

16034

If the second local admin account does not have access to the database, grant that account administrator access to the SQL Server instance before installation.

Table 2. General known issues

Known issue ID

Domain controller and domain authentication issues can cause errors such as:

15187

- VM backups encounter 2129 Can't Write errors to CIFS repositories with any transport type.
- Physical machine backups encounter 2129 Can't Write errors to CIFS repositories.
- Virtual appliance (VA) backups fail with 2129 Can't Write errors to CIFS repositories.
- Physical machine shows as Disconnected in Inventory.

Workaround:

The following lists some common situations that can cause these issues:

- System Time synchronization: If any of the systems—AD server, the DNS server, and so on—is not within the allowed time drift, authentication can fail.
- Domain membership: The machine may be part of the domain, as seen when you bring up
 the computer properties, but the membership may not be active, and may have to be reset.
 To check the status of the systems domain membership from the machine itself, use the
 command: netdom verify %computername% /verbose

When a Backup Group contains two Windows 8.1 or Windows Server 2012 VMs that are clones of each other, and that group is backed up using HotAdd, only one of the cloned machines restores properly.

During periods of heavy activity on the vRanger machine, HotAdd backup tasks may fail over to LAN backups with the following message. Sometimes, the LAN backups fail with the same error.

Backup task using VDDK Hot-add failed: RETRY operation timed out [at xtimedwait:416]

These errors can be caused by excessive resource contention, which causes vRanger message queues to become out of synch.

Workaround 1:

To avoid task timeout errors, schedule jobs to avoid excessive resource contention on the vRanger machine.

Workaround 2:

If rescheduling jobs is not an option, you may increase the timeout value to allow the vRanger message queues to recover from issues caused by resource contention. To change the timeout value:

- Browse to the vRanger installation directory.
 By default, this directory is C:\Program Files\Quest\vRanger.
- 2 Open the Vizioncore.vRanger.Service.exe.config file in Notepad.
- 3 Search the file for CommitTimeout, and change the timeout value to 450.
- 4 Save the file.
- 5 Restart the Quest vRanger Service to implement the changes.

When the vCenter User credentials are changed, the change does not take full effect until the Quest vRanger Service is restarted.

17038

In some circumstances, Changed Block Tracking (CBT) does not show as enabled for some VMs in the vRanger inventory. This issue is due to an error described in VMware KB article 2075984.

17528

Workaround:

To resolve this issue, perform the workaround documented in VMware KB article 2075984.

When creating Hyper-V virtual machines, avoid using special characters. The [] (square brackets) and ' (backtick) specifically should not be used.

When adding a CIFS repository, the Security Protocol setting applies only to Virtual Appliance based operations.

VR-1236

For machine-based operations, the security protocol used is determined by the Windows configuration on the vRanger machine. By default, this is NTLM.

Workaround:

To use NTLMv2, you must edit the registry key

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Lsa\LmCompatibilityLevel to set the LmCompatibilityLevel to 5.

Table 3. Backup known issues

Known issue Issue ID

When performing SAN backups of VMs created in VMware[®] vCloud Director[®] from a template, the backup may fail with the "Error: 2760 - <*VIXcannotOpenDetails*> VIX can't open..." error.

17591

The VMware SAN mode transport searches for VMs by BIOS UUID. By default, all instances and VMs that are deployed from a given catalog vApps/template in vCloud Director are assigned the same BIOS UUID. For more information, see VMware KB article 1002403.

Workaround:

To resolve this issue, perform the workaround documented in VMware KB article 2002506.

When performing a quiesced backup of a Windows Server 2012 VM without using **vzShadow.exe**, 14130 event log errors are generated for System Reserved volumes during snapshot creation.

The VMware QueryChangedDiskAreas API returns incorrect sectors after extending the VM VMDK file with CBT enabled. This issue causes the CBT filter to become invalid, possibly corrupting vRanger backups. For more information, see VMware KB article 2090639.

Workaround:

Ensure that the patches described in VMware KB article 2090639 are applied, and follow other workaround recommendations documented in the KB as appropriate for your environment.

When using the **vzShadow.exe** executable to perform application-consistent backups, lettered drives are required. The use of **vzShadow.exe** to quiesce mount points with databases is not supported.

When backing up Windows Server 2008 R2 VMs with multiple disks, and the Enable Guest Quiescing option is selected, some backup tasks may fail with the "API Call failed with message: A general system error occurred: Protocol error from VMX" error.

Workaround:

For options to resolve this issue, see VMware KB article 1037071.

When using a Microsoft Storage Spaces Direct (S2D) cluster as a repository, VA-based HotAdd will VR-1158 fail with error "Error 2258: FATAL cifs cant mkdir".

Workaround:

Add the VA into the same domain as the S2D cluster.

Backup of Hyper-V VHD Sets is not supported by vRanger. While adding the Hyper-V host or VR-1365 Hyper-V Cluster in the vRanger inventory that contains a VM with VHD Sets disk, the Hyper-V host or Hyper-V Cluster gets added but remains in disconnected status.

Workaround:

Remove the VM with the VHDS file from the Hyper-V cluster or host and then try to add the Hyper-V cluster or host to the vRanger inventory.

The use of SAN transport mode is not supported when working with encrypted VMs. This is due to a VMware VDDK limitation documented here.

Table 4. Restore and file-level restore (FLR) known issues

Known issue	Issue ID
When vRanger is installed on Windows Server 2019, attempting to perform a FLR on an ReFS	VR-990
volume causes the vRanger machine to crash.	

Workaround:

ReFS is not supported as removable media on Windows Server 2019. FLR for ReFS volumes when vRanger is installed on Windows Server 2019 is not supported.

When restoring a VM that had an ISO connected when the VM was backed up, the restored VM 8366 does not have the ISO connected.

Workaround:

To ensure that ISO images are attached to a VM when restored:

- Change the VM settings to set the StartConnected value of the CD-ROM-image device to True.
- Ensure that the restore job option Force Power On is enabled.
- Ensure that the path to the ISO image is available to both the backup source VM and the restore target VM.

When a standalone ESXi host is added to the vRanger inventory, and that Host is associated with a vSphere[®] vCenter that is not in the vRanger inventory, restore operations to that host fail with the error:

"<host> is being managed by a Virtual Center. Please disassociate the host from the Virtual Center before continuing a Restore operation or register the Virtual Center in vRanger."

Association is relationship in vSphere, whereby some host resources are managed only by an associated vCenter, and not the host itself. The Host, therefore, does not have permission to perform the operations required to restore a VM. If the vCenter is not in the vRanger inventory, vRanger cannot obtain the required permissions.

Workaround:

Either disassociate—disconnecting is insufficient—the host from the vCenter, or register the vCenter in vRanger.

When performing a Linux[®] FLR operation that recovers files and folders with the following characters in the name, the files and folders are displayed with what look to be randomly generated names, and are restored successfully with same random names. Characters that cause this behavior are:

\:*"?<>|

The vRanger cataloging feature does not support operation against dynamic disks.

13755

Table 5. Physical backup and restore known issues

Known issue Issue ID

The vRanger Restore CD is not compatible with UEFI. Physical target servers booting into UEFI will not boot the Restore CD.

VR-422

Workaround:

To restore a backup to a physical server booting into UEFI, change the boot mode to BIOS. To do so, follow the steps below:

- 1 Change the boot mode to BIOS for the physical server.
- 2 Boot using restore CD.
- 3 Perform restore from vRanger.
- 4 After successful restore from vRanger, change the BIOS mode back to UEFI.

Physical backup of Windows Server 2012 and 2012 R2 machines may fail with the "Failed to create VSS snapshot (P_VSSUTIL_WRITER_ERR)" message. This issue is often due to a VSS timeout caused by resource contention on the source server.

16589

Workaround:

If possible, adjust the backup schedule so that the backup is performed during a period of lower resource consumption.

When deploying the vRanger physical client to a physical server, the account used to install and run the client must have administrative **Log on as a service** rights. If this computer is a node in a cluster, check that this user right is assigned to the Cluster service account on all nodes in the cluster.

15278

If you have already assigned this user right to the service account, and the user right appears to be removed, a Group Policy object associated with this node might be removing the right. Check with your domain administrator to find out if this issue is happening.

For instructions, see the Microsoft TechNet article Add the Log on as a service right to an account.

The use of dynamic disks are not supported for physical backup. If a physical backup task is performed on a source server containing dynamic disks, the task fails with the "Value cannot be null" message.

14470

Known issue	Issue ID
When restoring to a physical server, vRanger does not lock the source or savepoint. This behavior potentially allows the un-supported practice of creating two simultaneous restore tasks to the same server.	14507
Workaround:	
Ensure that you only configure one restore task per server.	
When performing physical backups of an Exchange 2010 server, the task fails with the "Failed to create VSS snapshot on the target machine (P_VSSUTIL_WRITER_ERR)" error.	14426
Workaround:	
To protect Exchange 2010 with physical backups, install Exchange Server 2010 Service Pack 2 on the source server.	
When performing physical backups, if the credentials used for authenticating to the source server are changed without updating vRanger, subsequent backup tasks fail with the "Failed to acquire shared resources (Unable to connect to the backup destination.) Failed to connect to the backup destination" error. When this issue occurs, update the credentials in vRanger.	14712

Table 6. Replication known issues

Known issue	Issue ID
A replication job with more than 15 disks hangs.	VR-1450
Workaround:	
You can replicate with less than 15 disks with a separate replication job for remaining disks.	
Successfully replicated encrypted VM with different types of controllers fails to reboot.	VR-1163
The vRanger replication wizard will allow you to create a job replicating from a higher hardware version to a lower hardware version. When executed, the job will fail with error "Error: API Call failed with message: The virtual machine version is not compatible with the version of the host."	VR-1104

VMware ESXi 6.7u2 introduces hardware version 15. This hardware version is incompatible with ESXi versions 6.7u1 or lower. When configuring a replication job from a 6.7u2 host to a host running 6.7u1 or earlier, the VM hardware versions will be incompatible.

Workaround:

Ensure that replication jobs are configured between hosts running the same version of VMware ESXi.

Replication to a target containing vRDM disks is not supported.

16612

When a standalone ESXi host is added to the vRanger inventory, and that Host is associated with a vSphere vCenter not in the vRanger inventory, replication operations to that host fail with the error:

"<host> is being managed by a Virtual Center. Please disassociate the host from the Virtual Center before continuing a replication operation or register the Virtual Center in vRanger."

Association is a relationship introduced in vSphere 5, whereby some host resources are managed only by an associated vCenter, and not the host itself. The Host, therefore, does not have permission to perform the operations required to replicate a VM. If the vCenter is not in the vRanger inventory, vRanger cannot obtain the required permissions.

Workaround:

Either disassociate—do not simply disconnect—the host from the vCenter, or register the vCenter in vRanger.

When performing a failover operation, without synchronizing changes, and the source host is unavailable, the failover task fails and you must manually perform the failover.

Workaround:

A failover operation performs two key tasks that need to be performed manually if the operation fails: powering on the destination VM, and reversing the direction of replication to ensure that changes to the destination VM are captured when operation reverts to the production site. To replicate a failover task manually, perform the following steps:

- 1 Disable the original replication job.
- 2 Power on the destination VM manually.
- 3 Operate as needed using the destination VM.
- 4 After the source host is up again, set up a new replication job using the pre-seed function, selecting the original source VM as the pre-seed target.
- 5 Run the pre-seed replication job.
- 6 After the job is successful, run a test failover to verify that the changes have been transferred.
- 7 Power off the destination—disaster recovery—VM, and power on the original source VM.
- 8 Enable the original job again.The next replication pass should be successful.

When replicating a VM with a name containing a space in front of a bracket, " [," the replication task 12163 hangs at 12%.

When performing replications, in some cases the scratch disk reconfiguration process may result VR-1336 in the replication job failing with error "The virtual appliance 'VA-Name' has not been configured with a required data disk.". This is the result of a stale disk on the virtual appliance.

Workaround:

On the vRanger VA, execute the commands

#cd /root/vautil/

./scratch scsi.sh -c

After executing the above commands, reboot the virtual appliance.

When editing a replication job, disk selection for newly added disks is disabled. This is observed only when the disks initially added in the replication job are of a different controller type than the newly added disk.

VR-1376

Workaround:

Create a new replication job with the new disk included.

Table 7. Virtual appliance (VA) known issues

Known issue	Issue ID
Deploying a VA to a standalone host fails if the host is managed by a vCenter.	16792
When deploying the vRanger VA using the Virtual Appliance Deployment Wizard, only one VA is allowed per host.	13606

If a second VA deployment is attempted, the VA Deployment Wizard does not let you deploy a VA to a host that has an existing VA.

When creating a VA with the Install-VirtualAppliance vAPI cmdlet, enabling the VADeployStatus parameter may cause failures when used with multiple VAs.

Workaround:

When deploying more than three VAs with the vAPI cmdlets, use the Get-VirtualApplianceDeploymentStatus cmdlet to retrieve the status.

In some environments, it may be necessary for a customer to add a second network interface card (NIC) to the vRanger VA.

To add a second network card:

- 1 In the vSphere client, add the NIC to the VA.
- 2 Power on or reboot the VA.
- 3 Log in to the VA.
- 4 Run the command: dmesg | grep "rename.*eth"

You see two messages indicating the renaming of the real NICs with new Udev NIC names.

- 5 Find the Udev NIC name for the new NIC, and note the name indicated for the renamed NIC.
- 6 Run the command: cd /etc/sysconfig

This directory already contains one configuration file for the first NIC.

7 Run the following command to create and edit the configuration file for the new NIC where </ri>
*IFname
is the new name for the new NIC card:

```
vi ifconfig. < IFname >
```

8 Add these lines:

== For DHCP (SAMPLE NIC Interface Name):

```
ONBOOT=yes
SERVICE=dhcpcd
IFACE=enps2
DHCP_STOP="-k"
PRINTIP=yes
PRINTALL=no
```

== For Static (SAMPLE NIC Interface Name & IP Addresses):

```
ONBOOT=yes
SERVICE=ipv4-static
IFACE=enps2
IP=192.168.1.1
GATEWAY=192.168.1.254
PREFIX=24
```

- $9 \quad \textbf{Restart networking by running the command:} \ / \texttt{etc/init.d/network} \ \ \texttt{restart} \\$
- 10 Check the new NIC and IP configuration by running the command: ifconfig

Table 8. Third-party known issues

Known issue ID

When special characters are used in a file or folder name, you cannot see that file or folder when browsing the datastore in vCenter. This issue is documented in more detail in the VMware KB article 1015650.

When creating a Hyper-V backup job, mixing VMs with Cluster Shared Volumes (CSV) and non-CSV volumes is not supported. For more information, see Microsoft KB article 2771882.

13834

Quest has not verified support for protecting Virtual Machines with 'vSAN storage policy and VVOL storage policy' configured together.

Quest has not verified support for vCenter 7.0 using vSAN policies.

Additional notes

The End of General Support (EoGS) for VMware 7.x would be October 2, 2025.



System requirements

IMPORTANT: The information in this section is a summary. Review the information below and in the "System Requirements" and "Upgrading vRanger" chapters of the *Quest vRanger Installation/Upgrade Guide* before installing or upgrading to this version of vRanger.

Supported operating systems for installation

The following operating systems are supported for installation of vRanger.

Table 1. Supported operating systems

Operating system	Service pack level	Bit level	
Windows Server 2012 ^b	All service packs	x64	
Windows Server 2012 R2 ^{ba}	All service packs	x64	
Windows Server 2016 ^b	All service packs	x64	
Windows Server 2019 ^b	All service packs	x64	
Windows Server 2022 ^b	All service packs	x64	

Before installing vRanger on Windows Server 2012 R2, the updates listed in Additional required software must be installed.

Additional required software

In addition to a supported version of Windows[®] and a supported VMware[®] Infrastructure, you may need some additional software components, depending on your configuration.

- Microsoft[®] .NET Framework: vRanger requires the .NET Framework 4.5. The vRanger installer installs it
 if not detected.
- **SQL Server**: [Optional] vRanger utilizes two SQL Server[®] databases for application functionality. vRanger can install a local version of SQL Express 2014 SP3 or you can choose to install the vRanger databases on your own SQL instance.
- Windows PowerShell 3 or above.If you are installing vRanger on Windows 2008 R2 SP1, you will need to install Windows PowerShell 3 or above before installing vRanger
- vRanger virtual appliance (VA): The vRanger VA is a small, pre-packaged Linux[®] distribution that serves as a platform for vRanger operations away from the vRanger server. vRanger uses the VA for the following functions:
 - Replication to and from VMware[®] ESXi[™] hosts.
 - File-level restore (FLR) from Linux machines.
 - Optionally for backups and restores.
- Updates for Windows Server 2012 R2: Before installing vRanger on Windows Server 2012 R2, ensure
 that the Windows updates listed below are installed:
 - KB2939087
 - KB2975061

- KB2919355
- KB2999226

Minimum hardware requirements

The minimum hardware requirements to run vRanger can vary widely based on several factors. Therefore, you should not do a large-scale implementation without first completing a scoping and sizing exercise.

vRanger: physical machine

The following describes the hardware recommendations for the vRanger physical machine:

Table 2. Requirements for a installing vRanger on a physical machine

CPU Any combination equaling four cores of CPUs are recommended. Example one quad-core

CPU; two dual-core CPUs.

RAM 4 GB RAM is required.

Storage At least 4 GB free hard disk space on the vRanger machine.

HBA For LAN-free, Quest recommends that you use two HBAs—one for read operations and one

for writing.

vRanger: virtual machine (VM)

The following describes the hardware recommendations for using vRanger in a VM:

Table 3. Requirements for a installing vRanger on a virtual machine

CPU Four vCPUs.

RAM 4 GB RAM is recommended.

Storage At least 4 GB free hard disk space on the vRanger machine.

Requirements for physical backup and restore

When backing up from and restoring to a physical server, vRanger uses a client run on that server to perform backup and restore operations. To process the backup workload effectively, the physical server must meet the following requirements:

Table 4. Requirements for physical backup and restore

CPU Any combination equaling four cores of CPUs are recommended. Example one quad-core

CPU; two dual-core CPUs.

RAM 2 GB RAM is required.



Product licensing

The instructions for enabling a trial or purchased license are the same.

To enable a license:

- 1 Copy the file, **xxx-135-25746.asc**, that was attached to an email you received to an accessible location. In this step, *135-25746* represents your unique license number.
- 2 Click Help Menu > License Information.
- 3 From the License Information screen, click Add New License.
- 4 Navigate to the license file, select it, and click **Open.**The lower portion of the License Information screen displays your license information.
- 5 Click Save, and then click Exit.



Upgrade and installation instructions

For information about installing and upgrading vRanger, see the Quest vRanger Installation/Upgrade Guide.

More resources

Additional information is available from the following:

- Online product documentation
- vRanger 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. In this release, all product components should be configured to use the same or compatible character encodings and should be installed to use the same locale and regional options. 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.

This release has the following known capabilities or limitations:

- File Level Restore from a NetVault SmartDisk repository does not support Unicode.
- The product documentation and in-product help is available only in English.



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 to deliver solutions that have a real impact on our customers today and leave a legacy we are proud of. We are challenging the status quo by transforming into a new software company. And as your partner, we work tirelessly to make sure your information technology is designed for you and by you. This is our mission, and we are in this together. Welcome to a new Quest. You are invited to Join the Innovation.

Our brand, our vision. Together.

Our logo reflects our story: innovation, community and support. An important part of this story begins with the letter Q. It is a perfect circle, representing our commitment to technological precision and strength. The space in the Q itself symbolizes our need to add the missing piece—you—to the community, to the new Quest.

Contacting Quest

For sales or other inquiries, visit https://www.quest.com/company/contact-us.aspx or call +1-949-754-8000.

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.

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.



Third-party contributions

This product contains the following third-party components. For third-party license information, and copies of third party licenses not reproduced below, 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 1. List of third-party contributions

Component	License or acknowledgment
acl 2.2.53*	GNU General Public License(GPL) 2.0
AlphaFS 1.5	MIT
attr 2.4.47*	GNU General Public License(GPL) 2.0
Autofac 2.3.2.632	MIT
AutoMapper 1.1.0.188	MIT
bash 4.4.18*	GNU General Public License (GPL) 3
binutils 2.26*	GNU Lesser General Public License(LGPL) 3
blfs-bootscripts 20180105	Portions derived from the "Linux From Scratch" project.
bzip2 1.0.6	Copyright 2010 Julian R Seward. All rights reserved.
coreutils 8.3*	MIT Kerberos 5.0
cURL 7.60.0	Copyright 1996 - 2008, Daniel Stenberg.
cyrus-sasl 2.1.27	This product includes software developed by Computing Services
	at Carnegie Mellon University (http://www.cmu.edu/computing/).
	Copyright (c) 1998-2003 Carnegie Mellon University. All rights reserved.
dhcpcd 8.1.2	Copyright 1992-2020 The FreeBSD Project. All rights reserved.
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in src/lib/gssapi, including the following files:

lib/gssapi/generic/gssapi_err_generic.et

lib/gssapi/mechglue/g accept sec context.c

lib/gssapi/mechglue/g_acquire_cred.c

lib/gssapi/mechglue/g_canon_name.c

lib/gssapi/mechglue/g_compare_name.c

lib/gssapi/mechglue/g context time.c

lib/gssapi/mechglue/g_delete_sec_context.c

lib/gssapi/mechglue/g_dsp_name.c

lib/gssapi/mechglue/g_dsp_status.c

lib/gssapi/mechglue/g_dup_name.c

lib/gssapi/mechglue/g_exp_sec_context.c

lib/gssapi/mechglue/g export name.c

lib/gssapi/mechglue/g glue.c

lib/gssapi/mechglue/g_imp_name.c

lib/gssapi/mechglue/g imp sec context.c

lib/gssapi/mechglue/g_init_sec_context.c

lib/gssapi/mechglue/g_initialize.c

lib/gssapi/mechglue/g_inquire_context.c

lib/gssapi/mechglue/g inquire cred.c

lib/gssapi/mechglue/g_inquire_names.c

lib/gssapi/mechglue/g_process_context.c

lib/gssapi/mechglue/g rel buffer.c

lib/gssapi/mechglue/g_rel_cred.c

lib/gssapi/mechglue/g_rel_name.c

lib/gssapi/mechglue/g_rel_oid_set.c

lib/gssapi/mechglue/g_seal.c

lib/gssapi/mechglue/g_sign.c

lib/gssapi/mechglue/g_store_cred.c

lib/gssapi/mechglue/g_unseal.c

lib/gssapi/mechglue/g_userok.c

lib/gssapi/mechglue/g_utils.c

lib/gssapi/mechglue/g_verify.c

lib/gssapi/mechglue/gssd pname to uid.c

lib/gssapi/mechglue/mglueP.h

lib/gssapi/mechglue/oid ops.c

lib/gssapi/spnego/gssapiP_spnego.h

lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop hdr.h

kadmin/server/ipropd_svc.c

lib/kdb/iprop.x

lib/kdb/kdb_convert.c

lib/kdb/kdb_log.c

lib/kdb/kdb_log.h

lib/krb5/error tables/kdb5 err.et

slave/kpropd_rpc.c

slave/kproplog.c

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