

Quest® QoreStor™ 4.1.0

Release Notes

June 26, 2018 - Revision A

These release notes are intended to supplement the QoreStor documentation to provide last minute information available for the latest release of the QoreStor software. These release notes contain details about the latest updates and resolutions, known issues, resolutions, and other information.

Revision A of this document includes the following changes :

- The addition of defects QS-1845 and QS-1865 resolved in QoreStor build 4.1.0.235

i | **NOTE:** Please check for the latest versions of the QoreStor documentation available at support.quest.com/qorestor.

About this release

QoreStor is a software-defined secondary storage platform based on Quest's proven DR Series Appliance's resilient deduplication and replication technologies. With QoreStor, you can break free of backup appliances and accelerate backup performance, reduce storage requirements and costs, and replicate safer and faster to the cloud for data archiving, disaster recovery and business continuity.

QoreStor supports all of the major backup software applications in use today and can lower your backup storage costs to as little as \$.16/GB while reducing your total cost of ownership. (For a complete list of supported backup software, see [Supported backup applications](#)). QoreStor achieves these results using patented Rapid technology as well as built-in, variable block-based deduplication and compression.

QoreStor helps you to:

- Reduce on-premises and cloud storage costs with industry-leading deduplication and compression.
- Accelerate backup completion with protocol accelerators and dedupe.
- Shrink replication time by transmitting only changed data.
- Improve data security and comply with FIPS 140-2.

- Maximize return on investment for existing data protection technologies.
- Lower total cost of ownership through all-inclusive licensing.

QoreStor 4.1.0 is the initial release of QoreStor. See [New features](#) for more information on specific features. See [Resolved issues](#) for information on issues resolved in build **4.1.0.235**.

Other information you may need

The following table lists the documentation available for QoreStor. The documents listed in this table are available on the Quest support website by selecting your specific QoreStor version at:

<http://support.quest.com/QoreStor>

Table 1: QoreStor documentation

Document	Description
QoreStor Installation Guide	Provides information on installation and operation requirements, supported platforms as well as procedures for installing QoreStor.
QoreStor User Guide	Provides information on configuring and using QoreStor.
QoreStor Release Notes	Provides the latest information about new features and known issues with a specific product release.
QoreStor Command Line Reference Guide	Provides information about managing QoreStor data backup and replication operations using the QoreStor command line interface (CLI).
QoreStor Interoperability Guide	Provides information on supported infrastructure components.
Additional whitepapers	Instructions and best practices for configuring additional Quest and third-party applications to work with QoreStor.

i **NOTE:** Check for the latest documentation updates and release notes at <http://support.quest.com/qorestor>. Read the release notes first because they contain the most recently documented information about known issues with a specific product release.

Information on compatible products

QoreStor offers direct integration with Quest Software's NetVault® Backup and vRanger®, as well as Veritas NetBackup and Backup Exec. For more information on those products refer to the documents below.

Table 2: Quest NetVault Backup documentation

Document	Description
NetVault Backup Installation Guide	Provides information about installing and upgrading the NetVault Backup server and client software.
NetVault	Describes how to configure and use NetVault Backup to protect your data. This document

Document	Description
Backup Administration Guide	also provides information on configuring QoreStor repositories and migrating NetVault SmartDisk data to the new QoreStor repository.
NetVault Backup Release Notes	Provides the latest information about new features and known issues with a specific product release.

i | **NOTE:** See the complete NetVault Backup documentation at <https://support.quest.com/netvault-backup>.

Table 3: Quest vRanger documentation

Document	Description
vRanger Installation/Upgrade Guide	This document provides information on supported platforms, system requirements, and instructions on installing and upgrading vRanger.
vRanger User Guide	This document provides information and procedures on configuring and using vRanger to protect virtual and physical environments.
vRanger Release Notes	This document details the issues resolved in this release, the known issues as of this release, and the third party components in vRanger.

i | **NOTE:** See the complete vRanger documentation at <https://support.quest.com/vranger>.

Table 4: Veritas documentation

Document	Description
Veritas NetBackup	For information on Veritas NetBackup, refer to the NetBackup product documentation .
Veritas Backup Exec	For information on Veritas Backup Exec, refer to the NetBackup product documentation .

New features

New features in QoreStor 4.1.0:

- **Hardware- and software-agnostic platform** — Employ any storage hardware, backup software, virtualization platform or cloud provider to reduce costs, simplify your IT environment and maximize the return on investment (ROI) for existing technologies.
- **Next-generation storage dedupe engine** — Lower your backup storage requirements by an average of 20:1, and take advantage of enterprise class variable-block deduplication.

- **Built-in protocol accelerators** — Accelerate data ingest by up to 20 terabytes per hour to address your ever-shortening backup windows with built-in protocol accelerators that speed write operations using optimized client-side deduplication. Only unique data chunks are sent to QoreStor.
- **Remote replication for disaster recovery** — Replicate only unique data to a remote site, reduce replication windows by 10 to 15 times, reduce network bandwidth requirements by 85 percent and shorten overall replication time.
- **Back up to the cloud** — Back up directly to the cloud over your WAN but with LAN-like speeds through source-side deduplication where only the changes are transmitted. Achieve recovery point objectives (RPOs) that are typical of on-premises deployments, even over the WAN.
- **Secure connect** — Ensure complete backups, even over poor links that disconnect often. Links can disconnect many times, but backup will continue once connection is re-established. Rest assured knowing that all data sent across the WAN is encrypted.
- **Direct-to-target backup** — Bypass the media server and back up directly to the target storage device.
- **Data security** — Address your demanding security requirements with built-in encryption at rest and FIPS 140-2 compliance. Encryption at rest uses industry-standard 256-bit Advanced Encryption Standard (AES) keys, which are generated either one time or at set intervals.
- **Best-in-class data integrity** — Count on data verification and file system health checks to overcome potential storage failures and help ensure recoverability.
- **Multitenancy** — Easily create storage groups — and containers within those storage groups — to define separate storage policies and capacities within a single QoreStor system.

Resolved issues

The following is a list of issues addressed in this release.

Table 5: Resolved issues

Resolved Issue	Issue ID
QS-1845	Correct failure during Installation IO performance check.
QS-1865	Correct failure during installation prerequisite check where memory was reported as 0.

Known issues

The issues below are known to exist in this release.

Table 6: Known issues in this release

ID	Issue
QS-257	<p>After deleting a container and storage group, immediately creating a new container with the same name may fail.</p> <p>Workaround: This failure occurs because the old container is still in a delete_pending stage. To proceed with creating a new container, wait until the old container has been</p>

ID	Issue
	completely deleted via the QoreStor Cleaner run.
QS-437 QS-438 QS-612	When using multiple NetVault Backup Servers to access the same QoreStor Server, use storage group, container, and user names unique to each NetVault Backup server to avoid accidental deletions.
QS-1224	In rare cases, running the maintenance filesystem --check command, a warning is returned that states "Warning: program compiled against libxml 209 using older 207". This can be safely ignored.
QS-1420	When executing the QoreStor uninstallation script, the script will report and continue if illegal options are entered.
QS-1446	If the QoreStor partition is not set to automount, and the QoreStor server is rebooted, the system appears to be operational but shows 0 physical capacity.
QS-1456	When a user is created with the RDA role, the secure connect role is being added by default. You may remove this role through the CLI or GUI after the user is created.
QS-1480	When a storage group and container used by NetVault Backup backup jobs is deleted, the ocafsd.log file fills with the error message " ERROR: RDA SRVR RDA_GET_SGID". Workaround: To clear these messages, delete the QoreStor storage group from NetVault Backup.
QS-1495	The maintenance --diags command does not have the --delete option enabled. Workaround: Delete the diagnostic bundles from the QoreStor GUI.
QS-1537	While storage group information is loading in the QoreStor GUI, the page incorrectly displays the message "Storage groups not available". This behavior may be observed in other GUI screens if the GUI response is delayed.
QS-1571 QS-1572	The capacity figures in backup applications do not match the capacity figures in QoreStor. This is because: <ul style="list-style-type: none"> • QoreStor uses GiB, while the backup application uses GB. • The QoreStor metadata partition is being incorrectly identified by the backup application as storage capacity. 50 GiB of the configured is reserved for application use, and as such is not reported as capacity. When displaying capacity information, the Total Capacity value is equal to Capacity Free + Metadata Used + 50GiB.
QS-1588	When running Optimized Duplication jobs in Backup Exec, the container quota is not enforced as it is for backup jobs.
QS-1595	In the QoreStor GUI, the Physical Capacity value shown in the system information pane refers to the licensed capacity, not the true physical capacity of the QoreStor server. To view the physical capacity, use the QoreStor CLI commands.
QS-1619	When using Secure Connect to perform a backup over the WAN, the backup may fail very intermittently with "Invalid header" errors on the QoreStor server side. The errors occur when there are network issues, and Secure Connect reconnects and retransmits the packets. Please contact Tech Support if you run into this issue.

ID	Issue
QS-1657	The help output for the user command does not list the secure_connect role.
QS-1660	stats --network output is not captured
QS-1670	For Linux clients, the full version number of RDA plug-ins is not displayed.
QS-1704	When using Secure Connect with NetVault Backup, the NetVault Backup and QoreStor servers must be on the same local network, connecting with a remote Secure Connect client over a WAN link. Using Secure Connect for communication withing a local network is not supported in this release.
QS-1706	When QoreStor is in Manual Intervention mode, it is not possible to log in to the UI. Please use the QoreStor CLI when in this situation.
QS-1746	When using NetVault Backup with the Secure Connect client, authentication processes result in frequent instances of the Event message "Successfully authenticated User backup_user."
QS-1823	In some situations, the deduplication savings for a storage group shows as 100% before a backup has occurred. Once a backup has occurred, the deduplication savings will be displayed accurately.
QS-1826	With a large number of events, the Alerts and Events dialog loads very slowly on Internet Explorer and Edge.

Product Licensing

QoreStor offers a backend capacity licensing model to allow for simple integration with other Quest Data Protection products. A single QoreStor server can have multiple license types. For example, one QoreStor server can support both NetVault Backup and standalone licenses.

- **Standalone license** - QoreStor is licensed by the amount of backend capacity required.

QoreStor licenses are additive, meaning that if you purchase a 5TB license now, and a 10TB license in the future, you will have 15TB total capacity.

i **NOTE:** Licenses for QoreStor are specific to the QoreStor server. When installing a license, the System ID for your QoreStor server is required. You can obtain the System ID with the command **system --show | grep "System ID"**

Evaluating QoreStor

QoreStor offers two methods for evaluation:

- **Default installation** - If no license is installed, QoreStor defaults to a no-cost, 1TB capacity installation supported by the QoreStor Community. This option requires no license and does not expire.
 - If a license is applied to a server running in this mode, the free 1TB is **not** added to the purchased license capacity.
 - When installed in Demo mode, the capacity is limited to 100GB.

- **Full capacity trial** - available on the Quest Software Trial site, which provides a 30-day evaluation license for up to 150TB and access to Quest Support. After the evaluation period has expired, the QoreStor server will operate in Manual Intervention mode until a license is applied. To use QoreStor beyond that time frame, you will need to purchase a perpetual standalone license.
 - If installed in Demo mode, the capacity is limited to 100GB
 - If a longer trial period is required, please contact Quest Sales.

If you have purchased a perpetual license, you can install it using the **system --license** command, as described in the *QoreStor Command Line Reference Guide*.

i | **NOTE:** When ordering a license, the System ID for your QoreStor server is required. You can obtain the System ID with the command **system --show | grep "System ID"**

Supported software and hardware

For a complete list of the supported hardware and software for QoreStor, see the *QoreStor Interoperability Guide*. You can download this guide by visiting: <http://support.quest.com/qorestor> and selecting your specific QoreStor version, which opens the product support page to view product documentation for your system.

Third party components

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/>.

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angular2-jwt 0.2.3	MIT 1.0	Copyright (c) 2017 Auth0 Inc. A copy of the license can be found at The MIT License (MIT)
Angular-jwt 1.0	MIT 1.0	Copyright (c) 2017 Auth0 Inc. A copy of the license can be found at The MIT License (MIT)
bzip2	BSD Simple	A copy of the license can be found at The MIT License (MIT)
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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 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>.

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](#)
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