QxStor
Red Hat Gluster Storage Edition

Software-defined Scale-out Distributed File Storage

- Pre-configured software-defined file storage solution suitable for analytic database, backup, archive, cold data management.
- Preloaded solution with easy deployment kit for minimizing your time to value to set up an environment.
- Throughput-optimized and cost/capacity-optimized design with petabyte scalability and exceptional performance.
- No downtime and protection against unexpected data loss and disaster for multi-office operations.

QxStor Red Hat Gluster Storage is a pre-configured, software-defined storage solution designed for enterprises and cloud service providers to meet file, unstructured, semi-structured, and big-data storage demands.

Co-engineering with Red Hat to deploy Red Hat Gluster Storage on QCT hardware, we perform extensive testing to characterize optimized configurations for different workloads, each suitable for different public, private, and hybrid cloud environments.

Right Tools for Modern Data Management

Unlike traditional storage, Red Hat Gluster is a no-metadata architecture that ensures better performance, linear scalability, and reliability. QCT provides tools for data management that support a broad range of file formats as well as common protocols including CIFS, NFS, native GlusterFS, and Hypertext Transfer Protocol (HTTP).

Efficiency and High Performance

• QCT has eased the pain for you to build your own cloud environment. By preloading Red Hat Gluster software on QCT hardware, QCT minimizes time to value for you to get the solution up and running.

• QCT delivers the ideal ratio of HDD to SSD in servers for tiering. By promoting and demoting files between hot and cold tiers, QxStor Red Hat Gluster Storage enhances response time, reduces latency, and contributes better I/O performance.

Efficiency with Petabyte Scalability

• QCT created throughput-optimized and cost/capacity-optimized configurations which scale from terabyte to petabyte use cases. With uniform scale-out building block and ultra-dense design, QCT servers are flexible to scale out both capacity and computing.

• With elastic volume management, storage volumes in QxStor Red Hat Gluster Storage series can grow or shrink by adding or removing systems from the storage pool without application interruption.

Reliability and High Availability

• QCT provides two data protection schemes. Distributed replicated volumes on RAID 6 bricks are commonly used for performance-optimized configurations. Erasure-coded volumes on JBOD bricks are often more cost-effective for large-file archive situations.

• QxStor Red Hat Gluster Storage has been thoroughly validated as a turnkey storage solution to minimize adoption risk. Geo-replication for multi-site office and thin provisioned snapshot ensures high levels of resiliency.

About QCT

Quanta Cloud Technology (QCT) is a global datacenter solution provider. We combine the efficiency of hyperscale hardware with infrastructure software from a diversity of industry leaders to solve next-generation datacenter design and operation challenges. QCT serves cloud service providers, telecom and enterprises running public, hybrid and private clouds.

Product lines include hyper-converged and software-defined datacenter solutions as well as servers, storage, switches, integrated racks with a diverse ecosystem of hardware component and software partners. QCT designs, manufactures, integrates and services cutting edge offerings via its own global network. The parent of QCT is Quanta Computer, Inc., a Fortune Global 500 corporation.

http://www.QCT.io

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Found at: www.QCT.io/wheretobuy

Workload-Optimized QCT QxStor Red Hat Gluster Storage Solution

Throughput Optimized Small Files	Throughput Optimized Large Files		Cost/Capacity Optimized	
QxStor RGT-200(SF)	QxStor RGT-200(LF)	QxStor RGT-400(LF)	QxStor RGC-200	QxStor RGC-400
				
D51PH-1ULH	D51PH-1ULH	T21P-4U	D51PH-1ULH	T21P-4U
• Suitable for small files (e.g. 50KB images or MB audios) • Distributed replicated volume • RAID 6 storage • SSDs for hot tier	• Suitable for large files (e.g. GB files) • Distributed replicated volume • RAID 6 storage		• Maximized capacity for cold data • Erasure-coded volumes • JBOD storage	

Found at:
www.QCT.io/wheretobuy

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QCT QxStor Red Hat Gluster Storage Configurations

SHARED FILE WORKLOADS	ENTRY (Greater Than 100TB Usable)	SMALL (Up to 500TB Usable)	MEDIUM (Greater than 1 PB Usable)	LARGE (Greater than 2 PB Usable)
Throughput Optimized (Small File Performance)	**4x QxStor RGT-200 (SF)** • 2x Replicated Volume • 12x 8TB HDDs (with RAID6) • 4x SSD Hot Tier • 1x dual port 10 GbE • Server Node Qty: 4 (160 TB Usable)	**14x QxStor RGT-200 (SF)** • 2x Replicated Volume • 12x 8TB HDDs (with RAID6) • 4x SSD Hot Tier • 1x dual port 10 GbE • Server Node Qty: 14 (560 TB Usable)		N/A
Throughput Optimized (Large File Performance)	**4x QxStor RGT-200 (LF)** • 2x Replicated Volume • 12x 8TB HDDs (with RAID6) • 1x dual port 10 GbE • Server Node Qty: 4 (160 TB Usable)	**14x QxStor RGT-200 (LF)** • 2x Replicated Volume • 12x 8TB HDDs (with RAID6) • 1x dual port 10 GbE • Server Node Qty: 14 (560 TB Usable)	**5x QxStor RGT-400 (LF)** • 2x Replicated Volume • 2x 35x 8TB HDDs (with RAID6) • 2x single port 40 GbE • Server Node Qty: 10 (1.1 PB Usable)	
Cost/Capacity Optimized (Large File Archive)	**6x QxStor RGC-200** • Erasure Coded Volume • 12x 8TB HDDs (JBOD mode) • 1x dual port 10 GbE • Server Node Qty: 6 (384 TB Usable)	**3x QxStor RGC-400** • Erasure Coded Volume • 2x 24x 8TB HDDs (JBOD mode) • 2x dual port 10 GbE • Server Node Qty: 6 (768 TB Usable)	**6x QxStor RGC-400** • Erasure Coded Volume • 2x 24x 8TB HDDs (JBOD mode) • 2x dual port 10 GbE • Server Node Qty: 12 (1.5 PB Usable)	

About Red Hat Gluster Storage

Red Hat Gluster Storage is an open, software-defined scale-out storage platform to easily manage unstructured data for physical, virtual, and cloud environments. To learn more about Red Hat Gluster Storage, visit: https://www.redhat.com/en/technologies/storage/gluster

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