



# HPE SOLUTIONS FOR QUMULO

## Scale-Out Enterprise File and Object Storage



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### WHAT'S NEW

- The HPE ProLiant DL325 Gen10 Plus 291TB 100Gb All-NVMe Flash Node, an ideal solution for extreme performance workloads in a compact 1U format, provides the right combination of scale and density.
- The HPE all-NVMe solution is special-built for Qumulo using a ProLiant DL325 Gen10 Plus with 9x 15.36TB drives (R8F01A) and two disk packs of 5x 15.36TB (2x

### OVERVIEW

HPE, together with Qumulo, effectively addresses your growing unstructured data needs – scale and manage billions of files with instant control at lower cost and high performance, on-prem, off-prem, or spanning both – now and into the future. The HPE Solutions for Qumulo file data platform technology allows you to symmetrically grow capacity and performance, reaching petabyte scale, on purpose-built HPE Apollo Gen10 and HPE ProLiant Gen10 Plus platforms. With Qumulo and HPE's carefully selected configurations optimized for price, performance, and capacity requirements, you can create, transform, and deliver your unstructured file data at massive

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R8F02A) for a total of 19 NVMe drives.

scale and unmatched performance and ease.

## FEATURES

### **High-performance, Enterprise-proven Scale-out File Data Platform**

Scale to billions of files with Qumulo's file data platform that handles small files as efficiently as large ones. There is no practical limit to scale, whether capacity, performance, file or node count. User files can occupy 100% of provisioned capacity without performance or management issues.

Sophisticated data protection including highly efficient erasure coding, replication, snapshots, and software encryption, enable the fastest re-protect times in the industry. The auditing capability is simple to configure. The encryption is always on and securely protects data at all times.

Cross Protocol Permissions (XPP) seamlessly manages SMB and POSIX permissions, preserving ACL inheritance for worry-free collaboration across protocols and client operating systems. XPP is fully automatic and requires no configuration.

### **Your Data Where you Want it, Scaling On-premises and in Hybrid Cloud Environments**

Store your data anywhere and get multiple GB/s of performance for your workloads both on- and off- premises. You get scalable performance regardless of the number of files or file sizes.

Leverage continuous replication to make cloud a part of your business continuity strategy. Cloud continuity replication policies move the data where it's needed providing operating across storage clusters, whether on-premises or in the cloud. Qumulo automatically keeps data consistent.

Use the cloud when you need it. Access compute capability not available in your data center. With Qumulo SHIFT for Amazon S3 you can copy your data to native S3 to leverage applications, as well as AI and ML capabilities, hosted in the cloud. Amazon S3 enables easy collaboration around the world

Freely move data between on-premises and native cloud in AWS and Google Cloud without file conversion or rewriting apps because the same Qumulo platform runs natively in both. Simple subscription pricing covers all features, updates, performance enhancements and the licenses are transferable.

### **Eliminate Data Blindness with Real-time Visibility and Control of Your Storage Infrastructure**

Real-time analytics help save time and money while increasing performance, allowing admins to pinpoint problems and effectively control how storage is used while providing visibility into storage capacity usage patterns by IP address or directory path.

Instantly see usage, activity, and throughput at any level of the unified directory structure, no matter how large or how active the system is, whether Qumulo is running on-premises or in the cloud. Easily identify problem areas, hot spots and optimize workload distribution across the file system.

Leverage real-time information via analytics to set quotas in real-time. Directory-based capacity quotas give administrators instant control over storage allocation. Capacity quotas can be applied to any directory, even nested ones. Moving a directory with a quota is easy.

Automate everything, eliminating redundant tasks! The RESTful API enables you



to programmatically configure infrastructure, eliminate administrative tasks and automate IT management.

**Ultra-dense and Secure Storage Server**

HPE Solutions for Qumulo are built using HPE Apollo and HPE ProLiant servers. These build on years of proven leadership with an architecture optimized for Software-Defined Storage. Its unique design allows customers to save valuable data center space through a standard rack depth chassis.

HPE ProLiant DL325 Gen10 Plus servers are all-NVMe nodes, built on the 2nd generation AMD EPYC 7402 series processor family with 24 cores, and HPE Smart Memory up to 3200 MT/s DDR4 memory.

HPE Apollo 4200 servers are an SSD-first hybrid architecture that optimizes cost and performance. You can simultaneously get the speed benefits of SSD and the economic advantages of HDD.

HPE's Active Health System is an industry-first technology providing continuous, proactive health monitoring of over 1,600 system parameters and 100% of configuration changes. Cloud-based monitoring proactively detects potential problems including historical trend data about system usage.

HPE iLO5 Silicon Root of Trust and the built-in 256-bit AES encryption protects your systems and data from threats and malicious activities. No separate licenses or anything to manage. And switched ON by default.

**Technical specifications**

**HPE Solutions for Qumulo**

<b>Capacity</b>	139 TB NVMe (R8F01A) plus additional 152 TB NVMe (2x R8F02A), for a total of 291 TB of NVMe storage
<b>Protocol supported</b>	NFS, SMB, FTP and REST
<b>Replication support</b>	Continuous asynchronous replication across Qumulo storage clusters.
<b>Storage expansion options</b>	Storage is expanded by adding Qumulo nodes to the cluster.
<b>Compatible operating systems</b>	Windows®, UNIX®, Linux®
<b>Management features</b>	At-a-glance visibility to storage capacity usage patterns by IP address or by directory path. Up-to-the-minute analytics pinpoint problems and effectively control how storage is used. Directory-based capacity quotas. HPE Integrated Lights Out and Active Health System.
<b>Clustering support</b>	Minimum of four nodes required for a Qumulo cluster.
<b>Snapshot support</b>	Yes
<b>Form factor (fully configured)</b>	1U and 2U rack mount



For additional technical information, available models and options, please reference the [QuickSpecs](#)

## HPE POINTNEXT SERVICES

[HPE Pointnext Services](#) brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

### Operational Services from HPE Pointnext Services

[HPE Pointnext Tech Care](#) provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

[HPE Pointnext Complete Care](#) is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment, and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts.

**HPE Integration and Performance Services** help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

- Advise, design, and transform
- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- Greenlake Management Services
- Retire and sanitize
- IT Training and personal development

### Other related services

[HPE Education Services](#) delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

**Defective Media Retention** is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

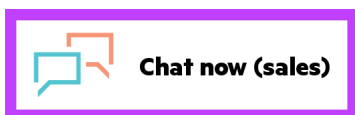
## HPE GREENLAKE

[HPE Greenlake](#) is HPE's market-leading IT as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

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