

# Qumulo Core Modern Scale-Out Storage



Qumulo Core is a modern scale-out storage system designed from the ground up for the new era of multi-petabyte data scale on premises and in the cloud.

Qumulo Core stores tens of billions of files with scalable throughput and is the only product that provides real-time visibility and control for file systems at petabyte scale. Storage administrators can instantly see usage, activity and throughput at any level of the unified directory structure, no matter how many files in the file system, allowing them to pinpoint problems and effectively manage how storage is used.

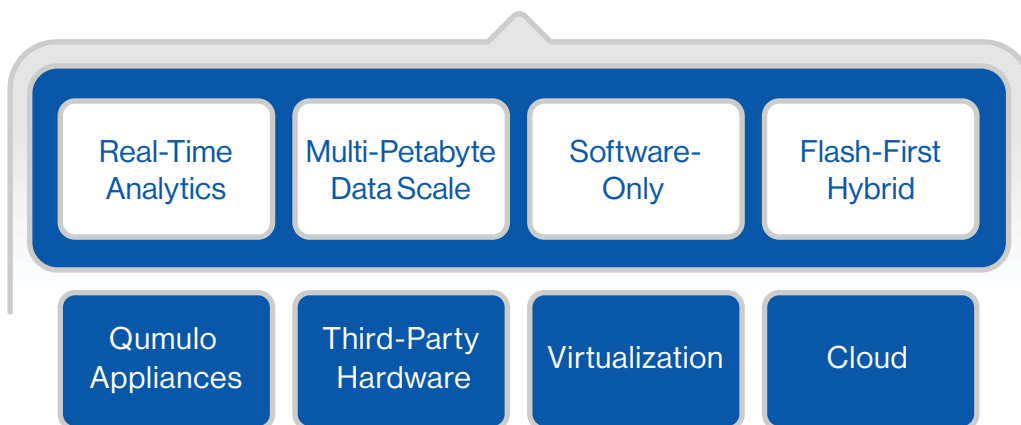
Qumulo Core uses storage capacity much more efficiently than legacy scale-out NAS. At scale, Qumulo Core's rebuild times in the case of disk or node failure are the fastest in the industry. Fast rebuild allows administrators to greatly reduce the level of redundancy needed to achieve target MTDL standards, thereby increasing storage efficiency. Further, Qumulo Core does not require any user disk space to be left available for its internal use. User files can occupy 100% of provisioned capacity, while legacy scale-out recommends only using 80%.

Qumulo Core's advanced software makes use of flexible, fast and highly scalable commodity hardware, including SSD and HDD technologies, to provide unprecedented cost effectiveness.

## Key Features & Benefits

- **Real-Time Analytics** – Provides Visibility and Control at Multi-Petabyte Scale
- **Software-Defined Solution** – On-Premises, on Third-Party Hardware or in the Cloud
- **Flash-First Hybrid Design** – Maximizes Both Price/Performance and Price/Capacity
- **SaaS Software Delivery Model** – Pay-as-You-Go for Continual Infrastructure Software Innovation
- **No Compromise Storage** – Optimized for the Widest Range of Workloads and Files Sizes
- **100% Programmable** – Public and Self-Documenting REST API with Interactive API Explorer Built into Web UI

## Qumulo Core



## Real-Time Analytics – Provides Visibility and Control at Scale

Gain immediate and actionable insights into your data. Qumulo Core provides an unparalleled real-time view of your data and workload enabling you to navigate through your directory structure in a single view.

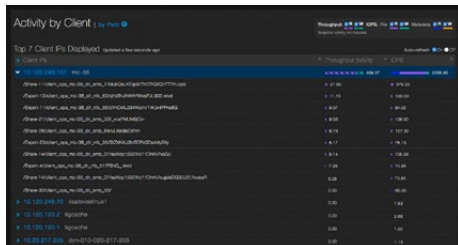
On any file, folder or directory, you can see:

- **Real-time display of capacity usage**
  - Meta-data aggregation intelligence built directly into the file system
  - Capacity information is updated in seconds
- **Real-time view of your storage workload**
  - IOPS and throughput broken down and filterable by Read and Write
  - List of the top client IPs reading or writing to your file system
  - Filterable views that allow you to see what's pertinent to you



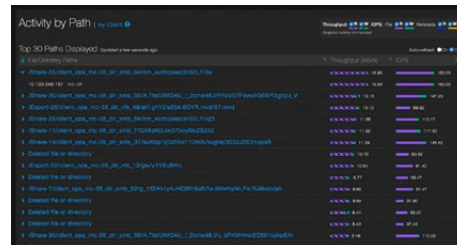
Qumulo Core Diagnostics Dashboard

## See who or what is utilizing your cluster's capacity and performance capabilities



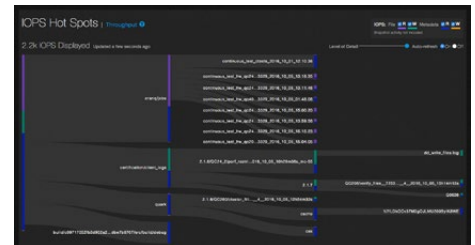
### Activity by Client

Real-time view of the hottest 20 client IPs on the cluster in terms of IOPS and throughput



### Activity by Path

Real-time view of the hottest 20 paths on the cluster in terms of IOPS and throughput



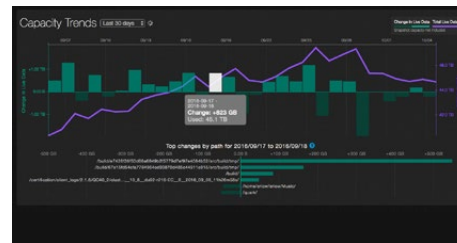
### IOPS Hot Spots

Real-time view of how the IOPS load is distributed across the file system



### Throughput Hot Spots

Real-time view of how the throughput load is distributed across the file system

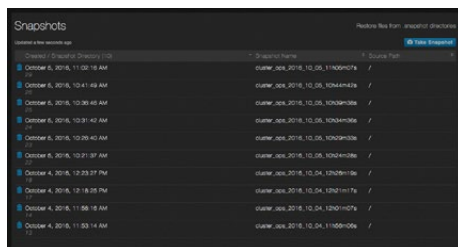


### Capacity Trends

Provides intelligently aggregated insights for storage data management and capacity planning

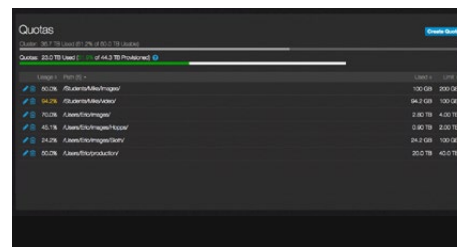
## Qumulo Core Specifications

<b>Supported protocols</b>	NFS (v3), SMB (v2.1), REST
<b>Management API</b>	API REST
<b>Total cluster size</b>	4 – 1,000 nodes
<b>Data protection</b>	Erasur Coding, Snapshots
<b>Storage management</b>	Machine Intelligent Quotas



### Snapshots

Provides extended enterprise data protection and allows end users to recover quickly from mistakes



### Machine Intelligent Quotas

Provides simplified administration and real-time control over storage allocation

## About Qumulo

Qumulo, headquartered in Seattle, the leader in modern scale-out storage, enables enterprises to manage and store enormous numbers of digital assets through real-time analytics built directly into the file system. Qumulo Core is a software-only solution designed to leverage the price/performance of commodity hardware coupled with the modern technologies of flash, virtualization and cloud. For more information, visit [www.qumulo.com](http://www.qumulo.com).

