

Qumulo File Fabric On All-Flash

The Leader in Universal-Scale File Storage

Qumulo File Fabric (QF2) is a modern, highly scalable file storage system that runs in the data center and the public cloud. QF2 on-premises all-flash instances serve high-performance workloads such as genomic sequencing and analysis, high-resolution video editing, scientific computing and the ingestion of large-scale datasets for machine learning applications.

QF2 all-flash clusters deliver the best price performance of any all-flash file storage system. Throughput of a single node is 4GB per second, an entry-level 4-node cluster is a blisteringly fast 16GB per second and a 400-node system scales up to 1.6TB per second, all with the lowest cost in the industry.

QF2 on all-flash is the first modern, scalable, all-flash file storage system built entirely from standard hardware components. QF2's all-flash instances, known as the Qumulo P-series, use state-of-the-art NVMe, Intel Xeon Gold (Skylake-SP) CPUs and dual 100GbE or 40GbE QSFP+ NICs. QF2 on all-flash uses the very latest commercial, off-the-shelf components, instead of expensive, proprietary hardware. Rapid delivery of advanced software features, combined with the competitively priced, commercially available standard hardware, delivers unmatched economic benefits and continuous innovation.

QF2 runs in the data center and in the public cloud. Continuous replication moves the data where and when it's needed, which means high-value all-flash workloads won't be confined to a silo in the data center. QF2 powered by all-flash is the world's only cloud-integrated all-flash file storage.

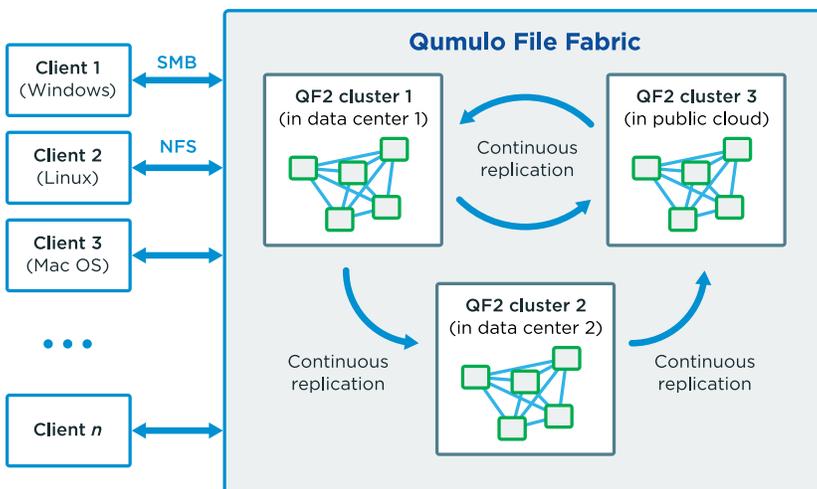
The Qumulo P-series is available in 23 and 92 terabyte node configurations, the Qumulo P-series 23T (12 x 1.92 NVMe SSDs) and the Qumulo P-series 92T (24 x 3.84 NVMe SSDs).



Features & Benefits

- Highest performance**
 The Qumulo P-series delivers the best price performance of any all-flash file storage system. QF2 on all-flash initiates a software-enabled future for flash storage, where performance gains come about through continuous software innovation.
- Lowest cost**
 Riding the cost curve of commercial, off-the-shelf hardware, QF2 is less expensive than proprietary all-flash systems today and will continue to take advantage of commodity economics over time. Qumulo's straightforward subscription pricing covers everything, including new features, updates, and support.
- The only cloud-integrated all-flash**
 QF2 runs in the data center and in the public cloud. Continuous replication moves the data where and when it's needed, which means that high-value all-flash workloads can be easily moved to the public cloud and won't be confined to a silo in the data center.
- Real-time control**
 QF2's advanced, real-time visibility and control let you tune your high-performance, all-flash workloads for optimal use of performance and capacity.
- Highest rated support**
 Qumulo has an industry-leading NPS score. Customers get help fast from our team of storage experts with your own Slack channel.

QF2 Architecture



“At DreamWorks, we are a digital manufacturer and digital media files are the core asset of our business. During the production of a major animated motion picture, we often create in excess of 500 million media files. If storage fails to perform, the creativity stalls. QF2 gives us the speed to meet our demanding production schedules, while continuing to raise the bar on creating the world’s most compelling movie experiences.”

— **Skottie Miller**, Technology Fellow for Engineering and Infrastructure at DreamWorks Animation

Technical Specifications

Per Node	Qumulo P-series 23T	Qumulo P-series 92T
Connectivity ports	2 x dual 100GbE or 40GbE QSFP+ NICs	2 x dual 100GbE or 40GbE QSFP+ NICs
Management ports	1 x IPMI 1GbE Base-T (RJ45)	1 x IPMI 1GbE Base-T (RJ45)
Storage media	12 x 1.92 SSDs	24 x 3.84 SSDs
CPU	Intel Xeon Scalable 6126	Intel Xeon Scalable 6126
Memory	192GB	192GB
Raw storage capacity	23TB	92TB
Power supply	2 x 1100W (fully redundant, hot-swappable)	2 x 1100W (fully redundant, hot-swappable)
Dimensions (H x W x D)	3.5" (8.9cm) x 17.2" (43.7cm) x 29" (73.7cm)	3.5" (8.9cm) x 17.2" (43.7cm) x 29" (73.7cm)
Power requirements	100 – 240V, 50/60hz	100 – 240V, 50/60hz
Typical power consumption	~300W	~300W
Typical thermal rating	650W (VA), 2,218 BTU/hr	650W (VA), 2,218 BTU/hr
Maximum power consumption	3.55A @ 240V, 7.73A @ 110V	3.55A @ 240V, 7.73A @ 110V
Maximum thermal rating		
Operating temperature	50° F - 95° F(10° C– 35°C)	50° F - 95° F(10° C– 35°C)
Non-operating temperature	-40° F - 158° F(-40° C– 70°C)	40° F - 158° F(-40° C– 70°C)

Certifications

Safety	UL, cUL
Country	FCC (USA), NRTL (USA and Canada)
Emissions	FCC Part 15 Class A, ICES-003 Class A
Immunity	North America

About Qumulo

Qumulo is the leader in universal-scale file storage. Qumulo File Fabric (QF2) gives data-intensive businesses the freedom to store, manage and access file-based data in the data center and on the cloud, at petabyte and global scale. Founded in 2012 by the inventors of scale-out NAS, Qumulo serves the modern file storage and management needs of Global 2000 customers. For more information, visit <http://qumulo.com>

