

The Panzura Filer

Panzura provides high performance enterprise file services with economics, scalability, and durability of the cloud. Panzura's unique hybrid cloud approach gives today's organization a cluster based solution that spans data centers, office sites and compute clouds enabling local, hybrid and in-cloud data workflows for NFS, SMB and mobile clients.

Panzura's filers provide access to data locally at high speeds without any modifications to existing applications or clients. In the background, Panzura filers consolidate file and unstructured data in the cloud. Data required by users is cached at the local filer. Changes to file content and location is tracked by metadata maintained by Panzura's purpose built global cloud file system, CloudFS. A full copy of metadata is present in every filer and in the cloud. Panzura's metadata technology is at the crux of ensuring immediate consistency of data with bulk synchronization events that make site to site collaboration in real-time possible.

Panzura Filer Deployment Options

Panzura filers are offered in multiple deployment models (software defined virtual machines, purpose built hardware) to meet the unique needs of every unstructured data workload, at every location.

Software Defined Virtual Machines

Filers can be easily and quickly deployed as a virtual machine on the following platforms:

- **VMware ESXi and IBM Cloud:** Allows customers to source their own hardware and scale resources including CPUs, memory and local cache space as they grow.
- **AWS EC2 Instance:** Deploy an in-cloud VM with AWS Public EC2 or AWS GovCloud EC2 service to support cloud bursting workflows.
- **Azure VM:** Deploy in Azure standard public compute cloud or Azure Government to access the same data as you do on-premise.
- **Google Compute Engine VM:** Deploy from the GCP Launcher to support in-cloud or hybrid workflows

| Platform | Small* (1Gbps) | Medium (5Gbps) | Large (10Gbps) |
|--------------------------|---------------------------|----------------------------|----------------------------|
| AWS | m5.2xlarge (up to 10Gbps) | m5.16xlarge (up to 10Gbps) | m5.32xlarge (up to 10Gbps) |
| Azure | 8 vCPU/Standard_DS13_v2 | 20 vCPU/Standard_DS15_v2 | 64 vCPU/Standard_DS64_v3 |
| Google | n1-standard-8 | n1-standard-16 | n1-standard-64 |
| VMWare, IBM Cloud | 10 vCPU/32 GB RAM | 20 vCPU/64 GB RAM | 50 vCPU/64 GB RAM |

*Minimum vCPU and Memory requirement for Panzura Filer operation

Make sure that Panzura metadata is stored only on SSD. Some storage systems may claim that your data is stored on SSD, but instead implement a hybrid mix (HDD, SSD) instead, which is unsuitable for Panzura metadata. For cache, SSD is strongly recommended.

Purpose-Built Hardware

Panzura filers can also be deployed through the following hardware options:

- **Panzura FD-6200 Filer:** Designed for small to medium office environments, the FD-6200 can support up to 200 active users.
- **Panzura FD-6600 Filer:** Optimized for medium to large offices with a large data footprint, the FD-6600 offers in-chassis and per shelf expandability, and can support up to 3000 active users.
- **Panzura FD-6700 Filer:** Purpose-built to deliver maximum performance and dynamic scalability, the FD-6700 can support up to 5000 active users in the largest of environments. Designed for ultimate performance using next generation technologies such as NVMe, the FD-6700 is the industry-leading hybrid cloud storage platform.

Panzura Single Filer Specification

| Models | FD-6200 | FD-6600 | FD-6700 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|
| Software | Panzura OS 7.1.8.0 or later | Panzura OS 7.1.8.0 or later | Panzura OS 7.1.8.0 or later |
| RAM (standard GB) | 64 | 128 | 512 |
| Max slots | 8 | 24 | 24 |
| Effective Data Cache (TB) | up tp 7 TB | up tp 28 TB | up tp 28 TB |
| Addressable Cloud Size | up tp 6.8 PB | up tp 27.4 PB | up tp 27.4 PB |
| Active Users | 200 | 3000 | 5000 |
| Read Performance | 2Gbps | 10Gbps | 15Gbps - LAGG |
| Write Performance | 1Gbps | 3Gbps | 10Gbps |
| SSD Expansion Packs | 1 | 7 | 7 |
| Networking | On-board 4 x 1Gb Ethernet (RJ45), Dedicated Management Port (iDRAC), 2 x 10Gb Ethernet using (Twinax/SFPs) [optional] | | |
| Form Factor (Rack Units) | 1 | 2 | 2 |
| Weight | 45 lbs / 20 kg | 87 lbs / 43 kg | 87 lbs / 43 kg |
| Power (120-240V) | 2 x 550W | 2 x 750W | 2 x 750W |
| Heat Dissipation | 5118 BTU/hr | 5782 BTU/hr | 5782 BTU/hr |

Note: The performance values are based on the testing of equivalent systems

Other Features

| | |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Standard Features | Global File Locking, Global In-Line Deduplication, Compression, SMB/CIFS, Policy Driven Cache Management, File Access Auditing |
| Optional Features | ICAP for Enterprise Anti-Virus Integration, Secure Erase, File Audit |
| Encryption | AES-256-CBC, TLSv1.2 |
| Security | FIPS 140-2 Certification, HIPAA |
| Monitoring | SNMPv3 |
| Remote Management | Dedicated IPMI v2.0 Port |

Regulatory Information

| | |
|----------------------|---------------------------------------------|
| Environmental | Energy Star 2.0, CEC, CECP |
| Compliance | RoHS Worldwide, REACH |
| Safety | EN/IEC 60950-1 |
| Emissions | FCC Class A, CISPR 22/CISPR, EN 55022/55024 |