Datasheet

Hitachi Content Software for File Powered by WEKA

Deploy a scalable, distributed file system rapidly, easily and affordably

Harness today's data-intensive AI, ML and analytics with Hitachi Content Software for File

Eliminate the complexity, cost and delays of configuring a distributed file system from multiple components and manufacturers. Hitachi Content Software for File lets you design and deploy a leading edge file system — now.

- Gain insights faster by simplifying the process of building and supporting an end-to-end solution with Hitachi.
- Simplify the process of architecting and scaling a solution that is flexible enough to meet the wide range of business requirements.
- Choose the components and support models that best fit your business requirements.
- Deploy a system with infinite scalability that can adapt and expand as your needs evolve.

Integrated Disk-Based Tiering
Tiering to Amazon S3 object storage provides unlimited, affordable scaling

Leading-Edge Performance
High-speed file system – 3x faster than local NVMe flash drives

Exascale Capacity
Easily scales to exabytes of object storage and petabytes of NVMe storage

Unified Access
Multiprotocol POSIX, NFS, SMB, and S3 file systems
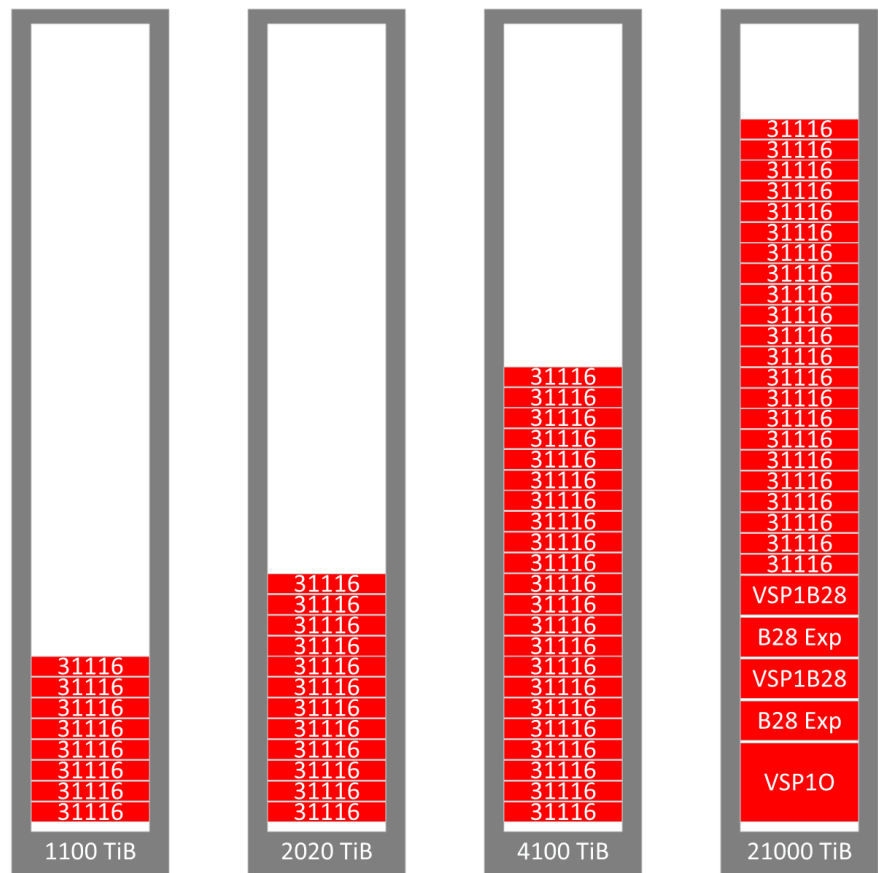
Hybrid Cloud Integration
Enables advanced distributed data security, backup and disaster recovery

Reference Architecture

- Highest performance
- Lowest latency
- Massively scalable
- Space and energy efficient
- Fully preconfigured

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1100 TiB	**2020 TiB**	**4100 TiB**	**21000 TiB**

HCSF Configurations

	SMALL	MEDIUM	LARGE
Total Nodes - 31116	8	12	22
Useable TiB	1100	2020	4100
Latency	< 1µsec	< 1µsec	< 1µsec
R/W IO (M)	24.8 | 5.8	37.2 | 8.8	68.2 | 16.1
R/W Throughput (Gb/s)	600 | 240	900 | 360	1650 | 660

HCSF with Object Storage

	LARGE
VSP One Object Node	8
VSP One B28 - 60TB	2
VSP One B28 - Expansions	2
Usable TiB	16000
Total Rack Units	12

Model Specifications

	General Purpose	Performance Gen5
Appliance	HCSF20220	HCSF31116
CPU	AMD EPYC Milan 7713P UP - 64 Core	AMD EPYC Genoa 9534 DP/UP 64 Core
DIMM Memory	512GB	768GB
Drives per Node	20x NVMe 3.8TB, 7.6TB, 15.3TB, 30TB	16x NVMe 3.8TB, 7.6TB, 15.3TB
Total Drives	20	16
Network 1	On-board 2p/25GbE + 2p/10GbE	2p/25GbE
Network 2	"NVIDIA CX6-ECAT 2p/100GbE NVIDIA CX6-HDAT 2p/200GbE/IB"	NVIDIA CX7-SQ0 1p/400GbE/IB
Network 3	"NVIDIA CX6-ECAT 2p/100GbE NVIDIA CX6-HDAT 2p/200GbE/IB"	NVIDIA CX7-SQ0 1p/400GbE/IB
Cluster Size / Nodes	8+	8+
Rack Units	2	1

Object Storage Economics for a Parallel File System

Hitachi Content Software for File, powered by WEKA, makes it easier and more affordable for you to leverage the economics and scalability of object storage. By integrating with Hitachi Vantara Virtual Storage Platform One Object (VSP One Object), this powerful solution removes the complexity and expense of having to scale with expensive NVMe or manage complex data silos.

Integration with VSP One Object

1. Data written to NVMe flash
2. Hot data tracked with metadata
3. Active hot data remains in flash
4. Idle data moved to object storage
5. Data recalled to flash as necessary

Bonus: Capacity safety net ensures NVMe is not exhausted

See how Hitachi Content Software for File speeds file system deployment.

Learn more →

Hitachi Vantara