FreeStor®
POWERED BY FALCONSTOR

FreeStor® - The Intelligent Approach to the Cloud

Today's challenges require a new, software-defined approach that eliminates vendor lock-in, proprietary platform silos, increased complexity, and lack of hardware and software compatibility. Only FreeStor addresses those challenges head on and delivers real value to help organizations reduce costs, eliminate silo's while providing real flexibility and freedom.

Intelligent Abstraction – Virtualizes existing AND future storage for a more efficient and available data pool

Intelligent Predictive Analytics – Provides real-time and historical analytics across the heterogeneous storage pool to better manage capacity, performance, and availability

Intelligent Action – Enables users to take action based on real-time information to optimize and maintain their storage environment from a single-pane-of-glass regardless of storage vendor or location

Intelligent Pricing – Enables users to regain control of costs and realize the economic benefits with FreeStor by only paying for the primary copy

FreeStor gives customers the power to seamlessly migrate, recover, protect, and optimize data – on or off the cloud – without tying their business to specific hardware, networks, or protocols. Whether you are an Enterprise deploying a Private Cloud, or you are an MSP or CSP offering hosted /hybrid cloud services, FreeStor is optimized to deliver common data services at a lower cost to own, implement and manage.

ADAPT FASTER
Provision storage in 6 clicks - less than one minute

LOWER YOUR COSTS
Pay up to 90% less than buying same features and capacity vs. array-by-array

USE ONE TOOL
Single pane of glass for ALL storage; monitor, report and analyze from ONE tool

NO SURPRISES
Track utilization and predict capacity to better forecast budgets and resources

Cloud Enablement

The introduction of cloud service providers (CSPs) has resulted in the ability to store copies of information for protection, as well as off-production analysis and in some cases actual mission-critical operations. Digitalization and cloud technology have resulted in better economic performance for enterprise customers and service providers. Workloads can now be located in proper storage destinations - in the cloud, at a hosted provider or on-premise. Customers must also determine the required quality of service from the core to the edge, which then determines the storage type. Storage types can be NVMe, all-flash arrays, hybrid flash, traditional high/low-speed HDDs, or even tape.

Core-to-Edge Views

Enhanced Analytics and Unified Client Management enables insight, reporting, and monitoring from Core-to-Edge via a single pane of glass interface for both on-premise and in the cloud.

Technical Features

- **NEW:** Cloud Connectors
- **NEW:** Secure Multi-tenancy
- **NEW:** Enhanced Analytics
- **NEW:** Intelligent Pricing
- **NEW:** Optimization
- **NEW:** Centralized Client Management
- **NEW:** Linux 7 Support

Technical Benefits

- Core-to-Edge analytic data maps physical resources to endpoint workloads
- Workload Portability – move workloads to the right destination, on-premise or in the cloud, with real insight
- Centralized Client Management allows consistent deployment and rapid upgrades across client infrastructure
- Only pay for the primary or maser copy
- Optimization means reduced latency; IO Cluster path switch time improvements
- Provide service to several customers/tenants from one central infrastructure

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FreeStor Software Appliance Kit Hardware Recommendations

PHYSICAL CHARACTERISTICS	FREESTOR MANAGEMENT SERVER	FREESTOR DEDUPLICATION REPOSITORY	FREESTOR STORAGE SERVER
Server	Dell R730, HP DL380 G9, or equivalent (see FalconStor certification matrix for certified alternates)		
Processor	2 x Intel Xeon E5-26xx v3 with 8-Cores@ 2.6 GHz recommended minimum		2 x Intel Xeon E5-26xxv3 with 18-Cores @ 2.3 GHz recommended minimum
Memory	64GB minimum	128GB minimum	48GB minimum
Storage	8TB NL SAS (RAID 1) minimum	2TB NL SAS (RAID 1) minimum	2TB NL SAS (RAID 1) minimum
FC ports	-	4 x 16Gb ports minimum	4 x 16Gb ports minimum
1GbE ports	4 minimum (8 for redundancy)	2 minimum	2 minimum
10GbE iSCSI ports	-	-	2 minimum
10GbE optional ports	-	-	1 for IO Cluster, 1 for NVRAM
PERFORMANCE			
Performance IOPS (using 8 FC ports)	-	-	650,000 IOPS per standalone node, over 1Million IOPS per cluster
Latency	-	-	0.316 ms max per standalone node, 0.329 ms max per cluster
Inline Deduplication (with 1,000 virtual machines and 100% random data with a 20:80 read/write ratio)	-	Up to 120,000 IOPS per cluster using the NVRAM option	-
Total supported FSS/FDR nodes per FMS	128	-	-

FreeStor Advantages

DATA SERVICES	MIGRATION	CONTINUITY	RECOVERY	OPTIMIZATION
Unified GUI	ü	ü	ü	ü
REST API	ü	ü	ü	ü
Virtualization	ü	ü	ü	ü
Clustering (Active/Active)	ü	ü		ü
Automated Recovery		ü	ü	ü
Snapshots				
Deduplication		ü	ü	ü
Replication	ü	ü	ü	ü
WAN Optimization	ü		ü	

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