

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

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

- Cloud Connectors
- Secure Multi-tenancy
- Enhanced Analytics
- Optimization
- Centralized Client Management
- 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
- Optimization means reduced latency and shorter IO Cluster path switch times
- Provide service to multiple customers /tenants from one central infrastructure

FreeStor Software Appliance Kit Hardware Recommendations

| PHYSICAL CHARACTERISTICS | FREESTOR MANAGEMENT SERVER | FREESTOR DEDUPLICATION REPOSITORY | FREESTOR STORAGE SERVER |
|---|---|---|--|
| Server | (See FalconStor certification matrix for certified servers) | | |
| Processor | 2 x Intel Xeon CPUs with 8-Cores@ 2.6 GHz recommended minimum | | 2 x Intel Xeon CPUs 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) | - | Upto 120,000IOPS per cluster using the NVRAM option | - |
| Total supported FSS/FDR nodes per FMS | 128 | - | - |

FreeStor Advantages

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

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