

InfiniStor™

Software-Defined Scale-Out Storage for Cloud Storage Services

InfiniStor™ is enterprise class Software Defined Storage system that provides multiple features not available on any other systems. Start small, scale-out as necessary to meet the capacity or performance requirements without stopping services. Stored data is protected using distributed objects with replication or erasure coded.

InfiniStor™ is a Scale-Out NAS providing native clients for MS-Windows Servers and PCs, Linux, as well as NFS and CIFS services.

InfiniObject™ is Object Storage Services that comprises of IAM services and RESTful services that is either S3 compatible or InfiniObject™ Native.

Scale-Out

- Upto 512 OSD Servers and thousands OSD HDDs to compose single system image. Petabyte scale
- Start with 2 Servers, and expand as needed
- Mixed HDD type, size, number in single system
- Configurable Object Re-Placement to maximize the use of Infrastructure

Compatibility

- S3 compatible Object Storage Services
- Native Object Storage Services
- Native Linux Clients
- Native MS-Windows Clients
- CIFS Services
- NFS Services

Secure and Protected

- Absolutely no single-point-of-failure architecture
- No shared Storage for active-standby MDS services
- Real time data replication
- Native DR support in file system level
- Configurable failure recovery process

Efficiency

- Thin-Provisioning support to maximize H/W Usages
- Erasure-Coding based object management and protection

Software Defined Storage with Features

- Commodity hardware or VM environment
- Scales and reconfigures automatically to minimize administrative works and no service interruption
- Thin-Provisioning to easy administrative work and prevent un-necessary investments
- Erasure Coded Objects to maximize storage spaces

H/W Spec. Minimum

SERVERS: 1 MDS Servers
1 OSD Servers
CPU : 8 cores / service
RAM : 4GB / service
DISK : 4 HDDs / server
Network : 2 Gb Ethernet Ports

H/W Spec. Recommended

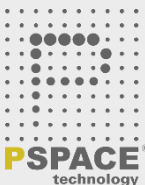
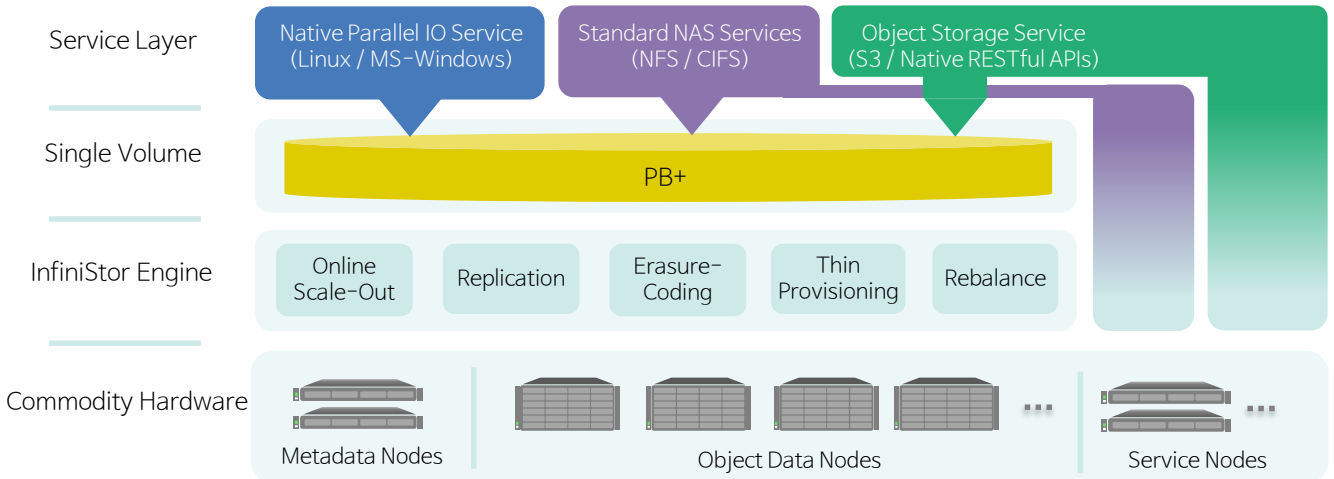
SERVERS: 2 MDS Servers
3 OSD Servers
Gateway Servers
CPU : 8 cores / service
RAM : 16GB / service
DISK : 4 HDDs / server
Raid Controller
Network : 2 10 Gb Ethernet Ports

Usages

- **High Performance POSIX API** : Provide POSIX Compliance native client drivers for Linux and MS-Windows OS to support parallel I/O and other features such as Securance
- **Shared Storage** : Share files among users with proper permissions
- **Object Storage** : Optimized for Cloud Storage Service with S3 compatible or InfiniStor Native Object Storage Services
- **Archive Storage** : Backup Service, WORM Storage Service, Read intensive Media Archive, or any other long-term data storage
- **DR Storage** : Disaster Recovery feature is embedded in file system level to protect data safety and service continuity
- **Multi-Purpose Storage** : Single InfiniStor for shared Object Storage Service and NAS Service together

Data Protection and Efficiency Technology

- **Data Replication** : Objects may stored in 2 or more different servers (and additionally in different racks) to maximize safety of data in the event of server / network failures
- **Erasure Coding** : Objects may be stored using Erasure-Coding technology to maximize the HW usages
- **Thin-Provisioning** : Fully virtualized storage resources and quota management for volume or user level to prevent over investments
- **IFS-Rebalance** : Objects in Data Servers are re-distributed when data servers fail or new data servers are added or massive file delete happens
- **IFS-DR** : InfiniStor systems can synchronize data via One-Direction, Bi-Direction, Multi-Direction, Relayed to fully flexible configurations
- **IFS-Revision** : File change histories are kept and may be reverted when needed



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