CONVRGD
The Enterprise IAAS Company
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Protocol and Platform Compatibility

Storage Protocols	Blocks : iSCSI, Openstack support using Cinder API File : NFS Object : Amazon S3 compliant API access
Hypervisor	Vmware, KVM, Xen (blktap), Microsoft Hyper-V (iSCSI)
Container	CoreOS, Docker, LXD
Unified Storage Support	Single storage cluster supports both block, file and object storage.
Virtual Machine Aware Storage	Storage system can map virtual disk(s) to a virtual machines to deliver VM level storage actions.
Scale-out Design	Scaled out architecture with N-way shared nothing controller model. Scaling can be done in small increment without any downtime. 1 cluster can go upto 1024 controllers.
Storage Controller Support	Scaled out architecture with N-way shared nothing controller model. Scaling can be done in small increment without any downtime. 1 cluster can go upto 1024 controllers.

Storage IO Optimization

Caching Optimization	Write performance optimization	Time aggregated, location aware transaction log based approach for all writes.
	Read performance optimization	Deduplicated content addressable (CAS) read cache storage and location aware metadata for back-end storage access.
Caching Tunables	Cache tunables are applicable at individual virtual disk level.	
Auto-Tiering	Automatic data flow optimization by tiering using Memory --> SSD/Flash (PCIe or SAS/SATA) --> Hard Drives.	
I/O Sequentialization	In-line aggregation of IO transaction allowing streamlined IO workflow to storage backend.	
IOPS per Compute Node	100000	

Storage Space Optimization

Data Reduction	Inline Lossless Data Reduction using deduplication and compresion.
Data Reduction Tunables	Tunables are applicable at individual virtual disk and object store namespace level.

Storage Encryption Support

Encryption Algorithm	AES
Block Ciphers	256
Encryption Tunables	Tunables are applicable at individual virtual disk with support for different encryption key per disk.
External Key Management Service Support	Yes

Storage Data Protection

Auto Data Healing Support	Self healing from bitrot and multiple disk failure across cluster nodes.	
Reliability Support	Erasure code based data spreads in a single data center and also multiple datacenters along with added 3 copies replication support.	
Snapshot and Cloning Support	High frequency snapshot Snapshot retention Clones Snapshot retention policy tunables Snapshot rollback	Zero copy snapshots as frequent as 1 hour. Retain 65536 snapshots. Supports very fast creation of thin clones. Tunables are applicable at the virtual disk level. Allows a snapshot to be made as primary (rollback).

Storage Management Interfaces

Graphical User Interface (GUI)	A single pane of glass web browser based interface to manage both block and object storage.
Storage Management API	REST-based API authenticated using Oauth2 process.

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