

MediaScale™ Storage

ATA-GLANCE

- Modern software-defined architecture
- Multi-workload support in a single cluster
- Multi-protocol support for File, Block and Object
- Smart configuration, management & monitoring (CMM)
- High availability network and file/object services
- Self-healing and self-balancing of cluster
- Capacity scales out from terabytes to exabytes
- Throughput scales out from megabytes/second to terabytes/second
- Pre-qualified and performance-optimized appliance solutions
- Software-only option with hardware reference design

THE DATA STORAGE CHALLENGE

Businesses with rapidly-growing, varied data volumes are constrained by traditional network-attached storage (NAS) architectures. When internal resources such as CPU, RAM and networking I/O are maximized, performance degrades – no matter how much storage capacity is added. And once resource limitations are exceeded, IT departments are forced to either completely overhaul or replace their proprietary storage systems to manage the massive data growth, meet changing market requirements, or implement new features.

MODERNIZE YOUR ENTERPRISE STORAGE

MediaScale™ Storage addresses these challenges with a software-defined storage platform with an open architecture. MediaScale™ Storage is a modern storage solution complete with a Ceph storage engine, robust and open management software, and options for software-only or pre-qualified commercial off-the-shelf appliance. Deploying MediaScale™ Storage with CMM software dramatically improves the manageability, performance and total cost of ownership of software-defined storage.

EASY-TO-MANAGE HIGH PERFORMANCE STORAGE

MediaScale™ Storage provides a single point of management for your storage – allowing for easy provisioning, management and monitoring of your data. MediaScale™ Storage CMM software is fully accessible via CLI, GUI and REST API, and allows you to effortlessly control and manage your storage cluster throughout the entire lifecycle – from initial setup and configuration to upgrades to replacement of cluster components over time.

CONSOLIDATE STORAGE SILOS

With the ability to ‘speak’ S3, Swift, RADOS, RBD, NFS, and SMB, MediaScale™ Storage provides flexible cluster configurations to integrate easily with core enterprise applications and support multiple workload types simultaneously. Rather than creating storage silos tailored to each application or workload, you can now use a single MediaScale™ Storage cluster to intelligently configure and manage mixed workloads for enhanced operational efficiency and reduced capital spending.

SAFEGUARD LARGE & GROWING DATA STORES

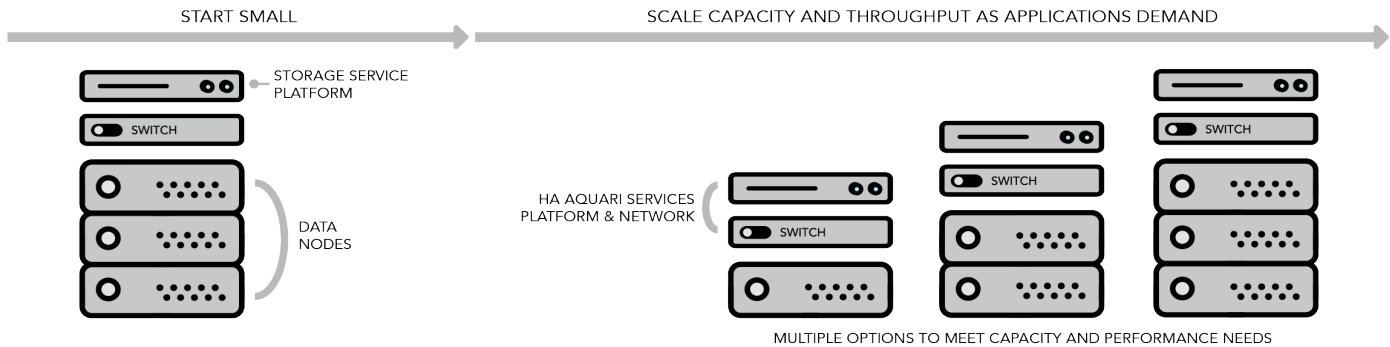
Data protection is accomplished using data replication and erasure coding across nodes in the cluster – overcoming the limitations associated with traditional RAID architectures. Also, MediaScale™ Storage features a highly-available architecture with no single point of failure, which guarantees that your data is not only safe, but always available.

CHOOSE SOFTWARE OR APPLIANCE

MediaScale™ Storage is available as software-only with reference designs for an expanding list of servers and manufacturers. MediaScale™ Storage also provides turnkey hardware/software solutions that have been tested and tuned for optimal performance, whether throughput or capacity or a balance of both is your goal. We also provide support on our software and our qualified hardware so that you have the assurance that one company will be there to support you.

START SMALL, SCALE AS YOU GROW

MediaScale™ Storage has a true scale-out storage architecture which means that you can start with just enough capacity and throughput for your current requirements and easily scale out to exabytes of capacity and terabytes/second of throughput as you need it by easily adding nodes to your existing MediaScale™ Storage cluster. Linear scaling is seamless – maximizing uptime by allowing your applications to continue running uninterrupted.



SPECIFICATIONS

CONFIGURATION, MONITORING, MANAGEMENT

- UI-based installer for deploying new clusters
- UI-based single dashboard management
- REST API for orchestration in a SDDC
- In-Service upgrades
- Monitoring – cluster health, performance, SNMP and API monitoring and notifications
- Email notifications and subscription alerts
- Advanced scheduling and reporting

FLEXIBLE APPLICATION ACCESS

- Multi-protocol support within the same cluster – Unified Block, File, Object, S3, RADOS, Swift, RBD, NFS, SMB
- MediaScaleX // Storage™ platform for embedding third-party storage services

DATA PROTECTION & AVAILABILITY

- Data replication
- Configurable erasure coding
- High availability – fully distributed, shared-nothing architecture
- Snapshots
- Copy-on-write clone
- Self-healing
- Drive scrubbing

SECURITY

- User authentication
- Data at rest encryption
- Pool-level authentication
- LDAP and AD integration for identity management
- OpenStack Keystone integration

I/O & STORAGE OPTIMIZATION

- Auto-balancing
- Thin provisioning
- QOS
- Optimized RADOS client

