



STEELDOME

StratiSTOR

Massively scalable software-defined storage cluster

SD Storage Cluster

StratiSTOR is a massively scalable software-defined storage cluster that delivers enterprise-class storage services for the most demanding environments without limits.

Legacy storage architectures are ill-equipped to meet the demands of today's rapidly evolving IT landscapes. As enterprises continue to grow, the volume of data they generate reaches unprecedented levels, surpassing the capabilities of outdated systems.

StratiSTOR

- Rapid Provisioning, Deployment and Expansion
- Hardware Agnostic
- Support for VMs and Containers

- Eliminate Rip-and-Replace
- Eliminate Migration Cycles
- Eliminate Future Capacity Concerns
- Eliminate Future Performance Concerns

Software-Defined

Software allows for maximum flexibility. Typically deployed on bare-metal physical hardware given its nature as a production tier-1 storage platform, it also can be deployed on any public or private cloud platform. Customers who choose to deploy in a public cloud platform are usually seeking a SAN-like experience in the cloud where performance is typically poor or unpredictable.

Scalability

No defined limitations on storage capacity, node count or performance. Start with three nodes and scale to 300, start with 10 terabytes of capacity and scale to 10 exabytes, need 100k IOPS or 30 million. The software will take you wherever you need to go.

Storage Cluster

Compared to traditional storage systems which have a finite amount of capacity, performance and redundancy, storage clusters are not subject to these limits. Clusters are made up of server nodes (or controllers) which collectively operate as a single entity and can scale vertically (aka. capacity) or horizontally (aka. controller or node count) as necessary.

Enterprise-class

Enterprise-class refers to a platform's reliability. With a storage cluster, multiple **simultaneous** failures can occur such as drive failures, network failures, entire node failures, even an entire site failure which will not result in an outage.

Traditional Storage Systems



Legacy Architecture

Isolated storage form islands which cannot interoperate or share data and contribute their capacity and performance independently.

- Limited Hardware Choice
- Limited Scale
- Limited Performance
- Limited Availability
- Forms Islands
- Heavy Initial Cost
- EOL Migration

VS

StratiSTOR Storage Cluster



StratiSTOR Architecture

StratiSTOR forms a **unified storage system** which operates as a single system and scales capacity and performance linearly.

- Use Any Hardware
- Unlimited Scale
- Unlimited Performance
- Unlimited Availability
- Unified System
- Grow-As-You-Go
- No Migration... Ever

StratiSTOR is one of the most powerful and flexible storage technologies available today. Due to its nature as a pure software technology, it can span any deployment scenario. It can run on any x86 virtual or physical server platform and utilize any storage device or service it has connectivity to.



Deployments

Bare-Metal Deployment

Used to provide tier-1 enterprise storage services in place of legacy array based SAN and NAS solutions.

Edge Deployment

Used to provide high-speed highly-available small-form-factor (SFF) deployments with technologies such as Intel NUCs, Lenovo ThinkCentre and ThinkStation, or any other SFF x86 system.

Private Cloud Deployment

Used to provide enterprise class storage services within a local cloud environment without the need for additional hardware.

Public Cloud Deployment

Used to provide SAN-like experience in the cloud where storage performance is largely unpredictable due to the shared and often overcommitted nature of public cloud resources.