

Software Defined Storage

Remove the need for physical SANs and unify storage and compute with OnApp - a fast, cost-effective software-defined storage solution that offers more flexibility and easier scalability than any other platform.

USE CASES

- ▶ **Reduce storage costs**
Replace traditional SANs with more efficient and scalable software-defined storage
- ▶ **IT Agility**
Automatically match storage performance to user, department and application needs
- ▶ **Private Cloud**
Create a seamless, self-service compute and storage environment managed through one UI
- ▶ **Disaster Recovery**
Use software-defined storage to replicate to remote sites for resilience and compliance

Software-defined storage for agile IT

For most enterprise workloads, traditional Storage Area Network (SAN) arrays cannot deliver the flexibility, agility or price/performance your business needs from its IT.

OnApp's software-defined storage solution is a fast, easy way to overcome those traditional SAN limitations.

OnApp is more flexible & scalable

Unlike most other SDS solutions, OnApp makes it easy to create different tiers of storage, and does not require nodes with identical hardware specs - making it easy to create a seamless, flexible storage and compute environment for your business.

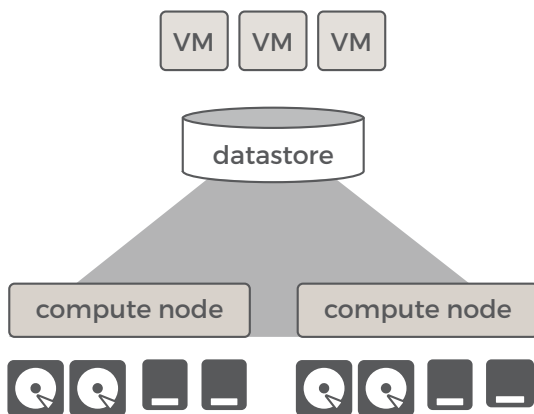
It's an integrated part of the new enterprise cloud platform from OnApp and Intel - available now as a ready-to-run, hyper-converged appliance from Intel Technology Partners.

BENEFITS

- ▶ **Highly flexible:**
Tiered storage & asymmetric node support
- ▶ **Extremely resilient:**
No central controller/no single point of failure
- ▶ **High performance:**
Optimized for VM throughput
- ▶ **Highly scalable:**
Add disks or nodes to scale up and out
- ▶ **Unified management:**
One UI for storage & VMs
- ▶ **Turnkey HCI appliance:**
Rapid deployment in less than a day

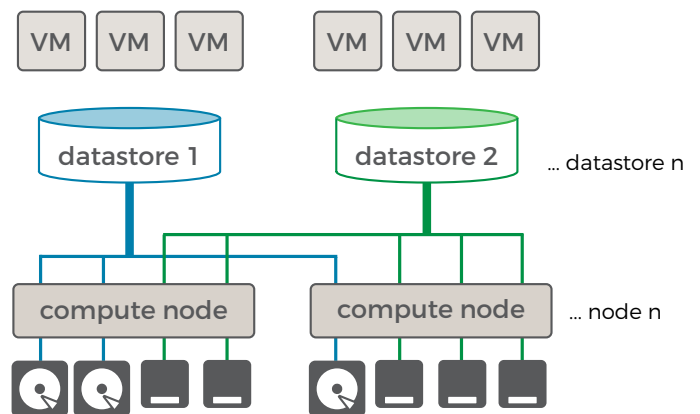
STANDARD SDS

Generic storage pool · Identical nodes required



ONAPP SDS

Any number of storage tiers · Assymetrical nodes for easy scaling



What makes OnApp SDS unique?

OnApp makes it easy to create different tiers of storage based on discrete disks, and does not require symmetrical nodes in a cluster - giving you much more flexibility in how storage is provisioned, managed and scaled.

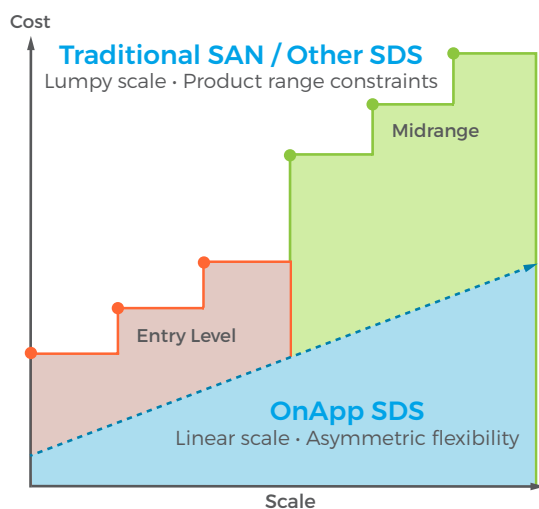
Tiered storage support

With OnApp, you can create any number of storage tiers (datastores) based on disks with similar performance distributed across your compute infrastructure. For example, a high performance tier using SSD storage, and a high capacity tier using spinning disks.

Each datastore can be customized with its own policies for striping, replication, IOPS limits and overcommit ratios, to meet the requirements of different applications, departments and groups of users. You can mix OnApp SDS for some tiers of storage, with a traditional SAN array for other tiers of storage too.

Scale up and out, on demand

With traditional SAN storage, you're limited to scaling in blocks of capacity, or by replacing your entire SAN infrastructure when you hit the capacity of the specific product range you're using. Meanwhile, other SDS solutions only allow you to scale by adding identical nodes to your environment - effectively limiting you to blocks of capacity in the same way.



With OnApp SDS you can scale up existing nodes by adding or upgrading disks, without having to rebuild the whole storage system; and scale out by adding additional nodes, which do not need to have the same spec.

No single point of failure

OnApp's Smart Disk technology makes your storage extremely dependable. Each node runs its own ultra-lightweight storage controller, which handles a group of physical disks and enables them to exist as self-contained, self-discovering and self-managing units in your datastores - able to make decisions about data synchronization and load balancing without depending on a central controller.

Optimized I/O for VMs

Each disk's I/O queue is independent, so there is no single point where bandwidth bottlenecks can occur, and each storage node manages and compresses its own content in the most efficient way possible.

OnApp also optimizes performance by guaranteeing local writes for VMs: regardless of how many replicas are being used, a copy of a VM's data is held on the compute node hosting that VM, providing the highest I/O performance possible.

Hot pluggable disks

OnApp storage disks are hot-pluggable: you can move disks between servers while preserving their data integrity, simplifying maintenance. The system knows which physical disks hold copies of data for a specific VM, and can rebuild data in the event of a disk failure.

Business continuity & Disaster Recovery

OnApp simplifies the creation of fully redundant IT infrastructure to support your business continuity and Disaster Recovery strategies. Unlike other solutions, which require you replicate your entire storage environment to a remote site, OnApp enables you to choose which specific VMs are replicated, and to which site. If you don't have multiple sites of your own, you can replicate to one of ours.

More information:

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