Building the Flash Enabled Datacenter

Pure Storage and DataCore Software

SOLUTION BENEFITS

FLASH ENABLEMENT

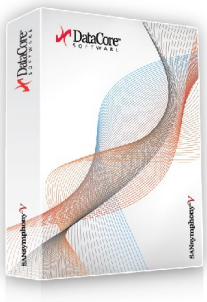
- Adds the benefits of flash to existing storage by combining Pure Storage FA-400 flash arrays with existing hard drive arrays

HIGH AVAILABILITY

- Eliminates single points of failure through metro-wide sync mirroring
- Enables 100% uptime and removes storage-related planned and un-planned downtime
- Asynchronously mirrors data across continents for added safety and remote restoration

DATA MIGRATION

- Moves data non-disruptively across unlike storage devices, enabling immediate or long term refresh strategy
- Workloads and hosts remain unaffected during background migration



Combining Flash and Storage Virtualization

Pure Storage and DataCore Software have teamed up to offer a solution that combines the latest advances in Flash technology with Software Defined Storage, seamlessly adding the benefits of modern flash and high availability to existing infrastructures while enabling the phase out of old storage on your own schedule, whether that is immediately or over a depreciation time of several years.

Solution Highlights

- **Seamlessly adds high performance flash to existing storage infrastructures**
- **Virtualizes all storage resources for simplified management across heterogeneous storage environments while adding enterprise class storage capabilities, including high availability and disaster recovery**
- **Provides non disruptive migration from disk to flash, enabling the all-flash datacenter**

True Business Continuity Through Synchronous Mirroring

True business continuity with physically separated data stores is achieved by synchronously mirroring data across two or more Pure Storage Flash Arrays working as active/active resources. Synchronous mirrors can be deployed either side-by-side in a datacenter or in a metro cluster spanning up to 100km for true physical separation. Deploying metro clusters drastically increases survivability in the event of a regional disaster. The solution also removes the need for storage maintenance downtime, enabling 100% uptime.

For situations when data need to move longer distances, which introduces latency, asynchronous replication provides an additional alternative enabling disaster recovery.

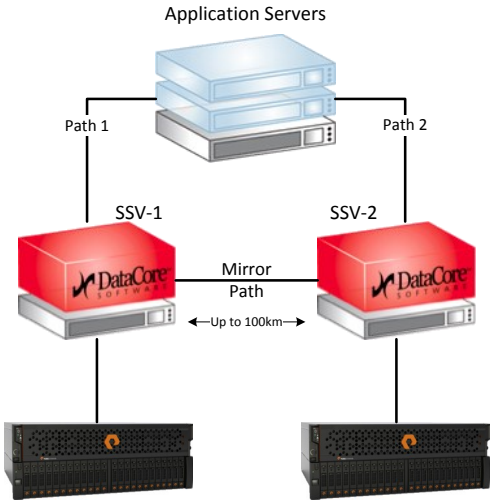


Figure 1. DataCore synchronously mirrors data to two physically separate places, allowing instantaneous failover for continuous availability, whether for planned maintenance or unplanned catastrophic failure.

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Combining The Performance of Flash with The Power of Storage Virtualization For Seamless Migration

Eventually, a storage device reaches a point in its lifecycle when the decision has to be made whether to replacing it or keeping it running. The Pure Storage and DataCore Software solution makes the choice simple and adds several options:

- Since the virtualized data moves freely between storage devices, one or more Pure Storage flash array can be introduced next to the existing storage, allowing the DataCore engine to migrate data in the background while the system is running at full speed. When the migration is complete, the legacy storage is removed, leaving an all-flash datacenter.
- Alternatively, the old storage is given a second life by complementing it with a Pure Storage flash arrays. The DataCore engine determines in real time what data requires higher IOPS and places it on the faster Pure storage, while less used, cool data, is migrated to the slower storage. This auto-tiering capability offers a cost effective solution for customers taking a longer path towards the all-flash datacenter.

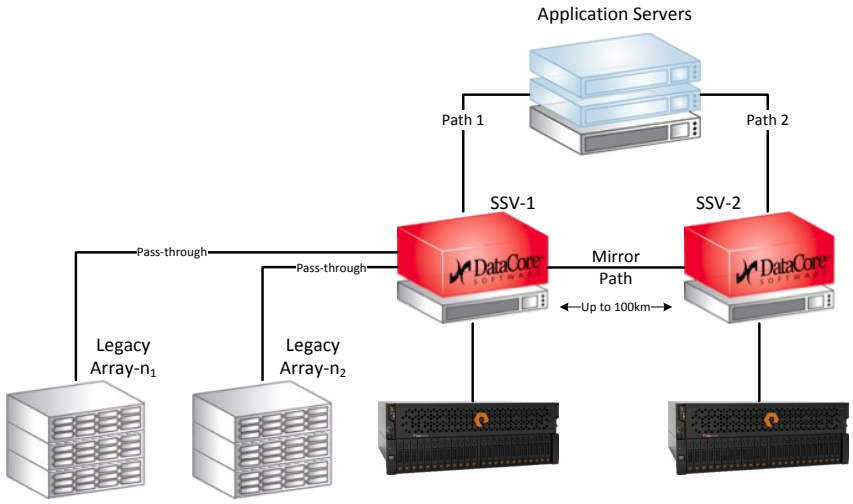

Figure 2. The DataCore storage virtualization platform opens seamless integration between the Pure Flash arrays and any existing storage, enabling data to flow freely between hardware devices.

The customer gains the freedom to conduct immediate background migration or keeping the old storage systems working alongside the faster

Feature Overview

Simplified storage management across all storage devices	Synchronous mirroring for high availability
Auto-tiering between flash and slower devices	Asynchronous replication for disaster recovery
Storage pooling and snapshots across unlike storage units	Background migration allows non disruptive addition/ removal/replacement of storage

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