

Clustered Data ONTAP 8.3: What's New?

Major Features

2-Node
cluster at
each site

MetroCluster

- Clients are served from all 4 nodes in normal operation while all nodes remain active
- The HA feature handles all local failures
- Inter-site links (ISL) consolidation feature will reduce telecom costs
- Nondisruptive operation support

Increased Disk
Space Utilization

55%

Advance Drive Partitioning (ADP)

This feature will split the root partition across the multiple drives in the system, making it ideal for smaller systems like the FAS2500 series. It is available with any disk type, will eliminate the need for dedicated disks for the root volume and increases disk space utilization efficiency by 55%.

96k LUNs
12k LUNs per node
8k iSCSI sessions

Increased SAN Limits

An additional feature added to ONTAP 8.3 is Successive Selective LUN mapping. Selective LUN mapping maps LUNs to the HA pair owning the LUNs without portsets. These are called reporting nodes and all other nodes in the cluster are called remote nodes. Selective LUN mapping provides greater control over the LUNs.

Max Hybrid Flash per HA Pair

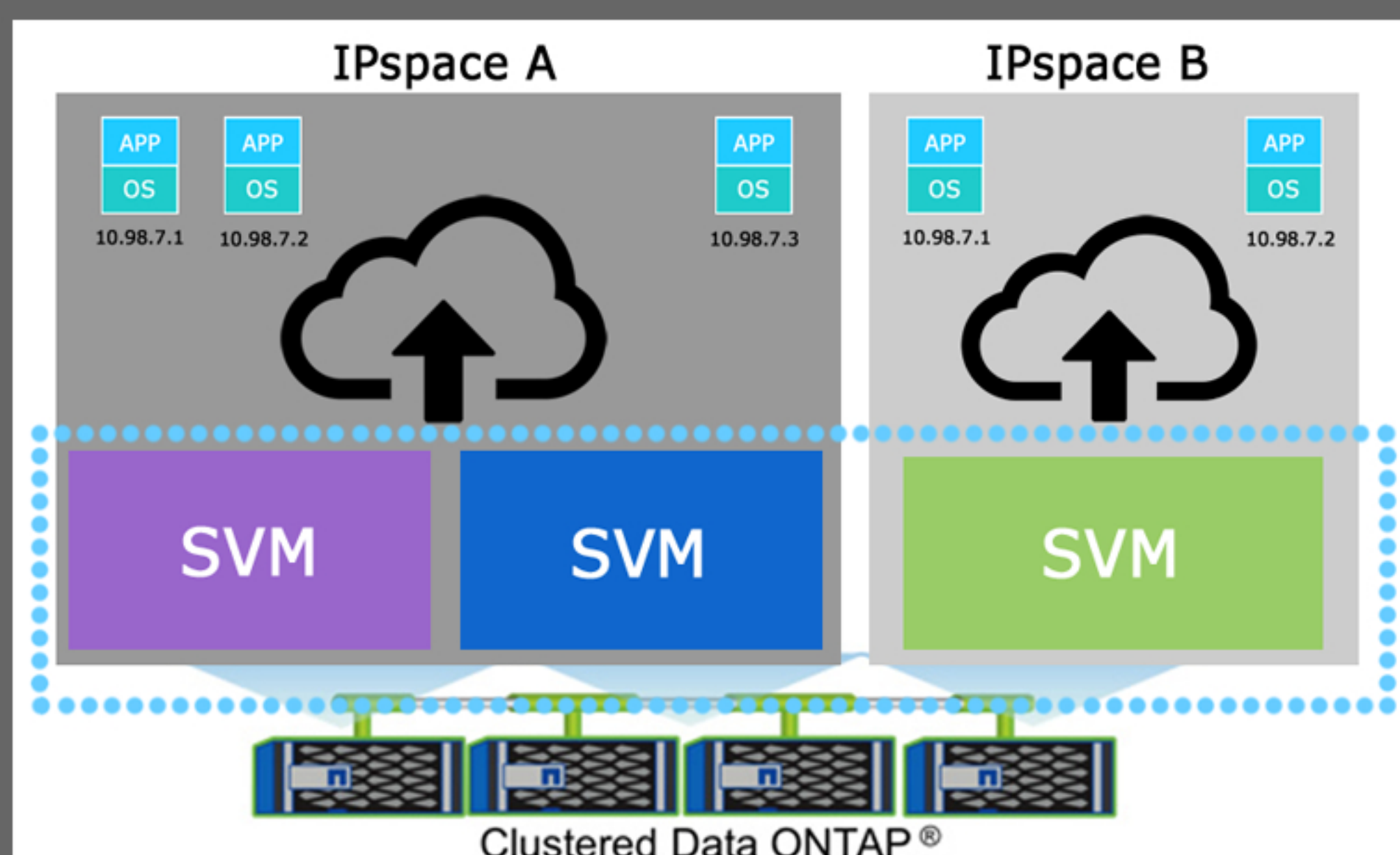
36 TB	FAS8080 EX	144 TB
18 TB	FAS8060	72 TB
12 TB	FAS8040	48 TB
6 TB	FAS8020	24 TB
4 TB	FAS25xx	16 TB
Data ONTAP 8.2		Data ONTAP 8.3

Hybrid Flash

Flash Cache- For FAS8080, max cache per node increased to 12 TB

Flash Pool- Cache capacity reserve reduced and cache data capacity increased 13%

Manageability Enhancements



IPspace

IPspaces allow storage virtual machines (SVMs) in the same cluster to have overlapping subnets and IP addresses. This enhancement reduces the complexity of tenant administration.

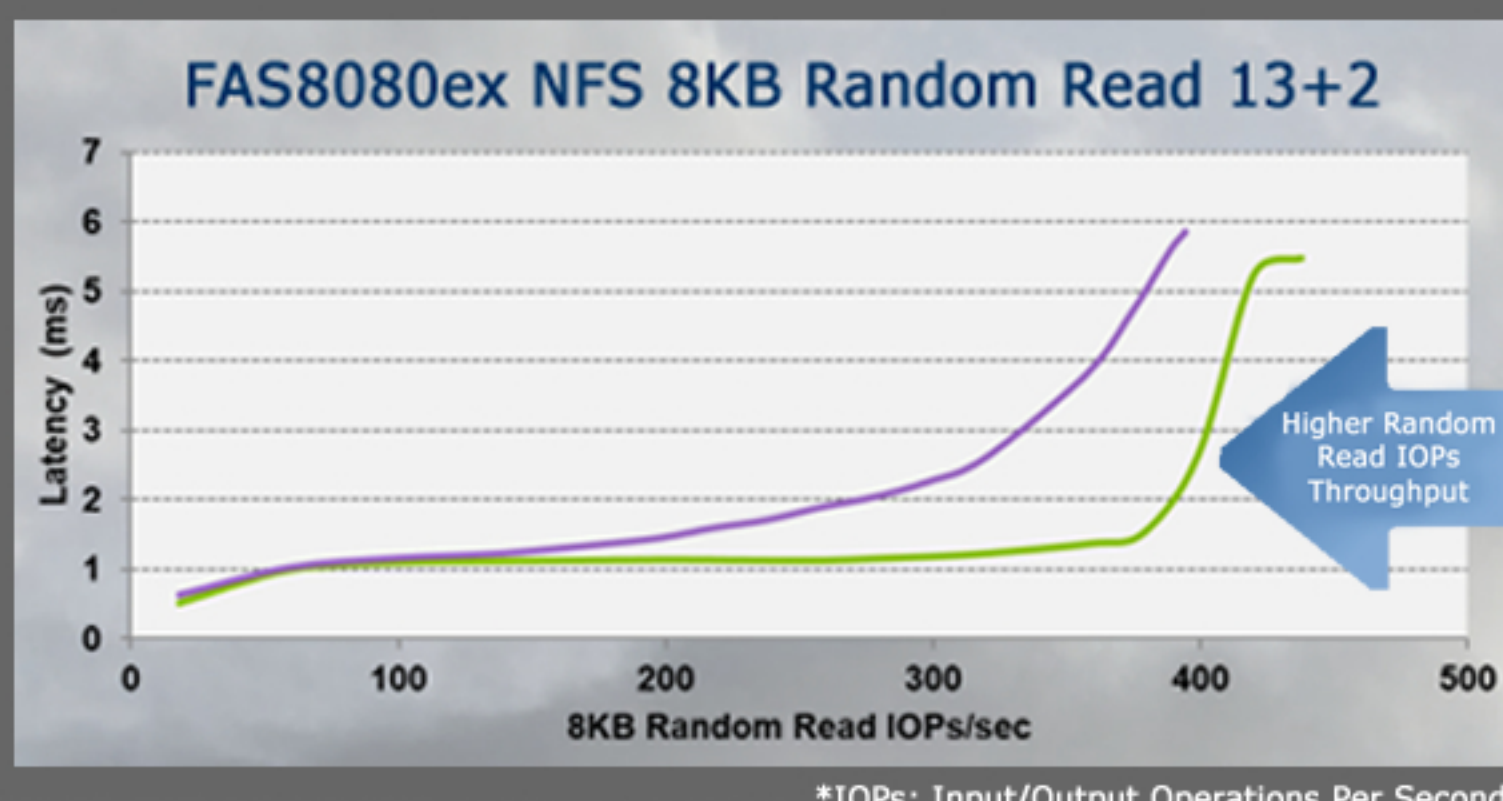
Data ONTAP 8.3 supports 3-step automated, non-disruptive software upgrades which includes all downloads, takeovers and givebacks as part of the automated process.

Auto NDU

Cluster Peering

Cluster peering ratio is increased to 255:1, which is also authenticated. These peer relationships allow the clusters to communicate and share data from two different geographical locations.

Read Path Optimization
enables consistent and predictable performance.



ONTAP Movement

ONTAP holds 1.9
Exabytes of Capacity

3130 ONTAP
Customers
Worldwide

59% of
Fortune 100
Companies
use ONTAP

Sources: <http://blog.sns1td.co.uk/whats-new-in-netapp-clustered-data-ontap-8-3/>
<http://www.datacenterdan.com/blog/netapp-insight-cdot-83-features-ntapinsigt>
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