DELLTechnologies

Dell PowerScale vs. NetApp ONTAP platforms

Dell PowerScale

NetApp ONTAP

Up to 10x greater scale-out
Scale-out up to 252 nodes per cluster enables significant performance at high capacity for consolidating workloads.

Limited scale-out
Scale-out to just 24 nodes with NAS deployments can limit consolidation of workloads.

Over 3x more throughput*
Up to 945GB/s per cluster enables expansive consolidation of demanding sequential workloads both on premises and in the cloud.

Limited throughput
Up to 300GB/s per cluster can limit consolidation of demanding sequential workloads in on-premises deployments. Throughput for cloud services is considerably less.

Scale-out namespace is global by design; data layout and client I/O are continuously self-optimized across cluster resources
Storage is simpler to manage at scale.

Scale-out namespace involves aggregating volume constituents; optimizing data layout and client I/O can involve considerable up-front planning and manual processes
Storage is more complex to manage at scale.

Cloud deployments offer rich software functionality, up to 50PiB in a single namespace, and throughput up to 97 MBps per TiB
When moving workloads to the cloud, PowerScale for Google Cloud can enable your most demanding file-based workloads that require extreme performance and throughput.

Cloud deployments provide only a subset of software functionality and have limited scale and performance compared to on-premises deployments
With NetApp Cloud Volumes there are storage tradeoffs to consider when moving demanding file-based workloads to the cloud.

Multi-controller HA architecture with cluster-distributed redundancy
Performance service levels can be more consistent with hardware failures.

Dual-controller HA architecture with HA pair failover/failback redundancy
Performance service levels can be less consistent with hardware failures.

Comprehensive single-pane-of-glass cybersecurity with integrated cyber vault
AirGap 2.0 technology from Ransomware Defender offers an operationally efficient solution that enables a multi-PB-scale cyber-vault to help protect last-line-of-defense recovery data.

Patchwork of cybersecurity functions with no integrated cyber vault
Robust cybersecurity is more complex and has no integrated capability to maintain a network-isolated cyber vault for multi-PB-scale recovery data.