Scale up your storage with higher-performing Dell APEX Block Storage for AWS

In our tests, Dell APEX Block Storage for AWS outperformed similarly configured solutions from Vendor A*, achieving more IOPS, better throughput, and more consistent performance on both NVMe-supported configurations and configurations backed by Elastic Block Store (EBS) alone.

Dell APEX Block Storage for AWS supports a full NVMe backed configuration, but Vendor A doesn't—its solution uses EBS for storage capacity and NVMe as an extended read cache—which means APEX Block Storage for AWS can deliver faster storage performance.

Dell offers

4.7x

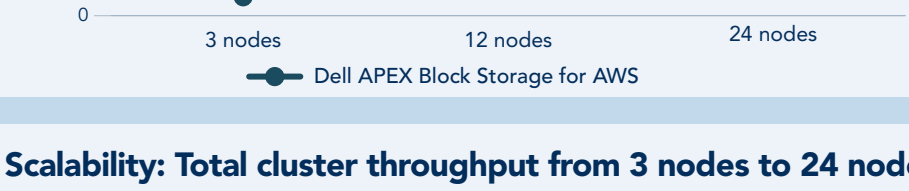
the IOPS

per node vs. Vendor A solution

NVMe-supported configurations

Random read IOPS at 128 threads and 4 KB IO size

IOPS per node, higher is better



Dell offers

5.1x

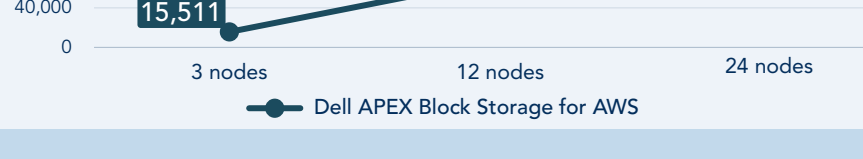
the throughput

per node vs. Vendor A solution

NVMe-supported configurations

Sequential read throughput at 32 threads and 256 KB IO size

MB/s per node, higher is better



Over 10 test runs, the Vendor A solution had up to a 62% degradation in performance per node, compared to a 3% drop or less for Dell APEX Block Storage for AWS.

Dell offers

More consistent performance

vs Vendor A solution

	Dell APEX Block Storage for AWS	Vendor A
NVMe sequential read MB/s	3%	62%
NVMe random read IOPS	<1%	45%
EBS sequential read MB/s	<1%	57%

Dell APEX Block Storage for AWS scales to 512 storage nodes and 8 PB raw capacity to support your organization as your needs grow, while the Vendor A solution does not scale past two nodes.

Scale to more than

4.9M

IOPS

on a single cluster**

Scalability: Total cluster IOPS from 3 Nodes to 24 nodes

Random read IOPS

Scale to more than

140 GB/s

throughput

on a single cluster**

Scalability: Total cluster throughput from 3 nodes to 24 nodes

Sequential reads MB/s

To learn more, read **the report** and the **science behind the report**

Principled Technologies®

*on Vdbench **Results seen on a single 24-node NVMe-supported multi-AZ cluster