



# Dell Technologies APEX Data Storage Services vs. Amazon EBS io2 Block Express storage: Oracle database I/O load generator performance and cost analysis

We tested two solutions that enable companies to get enterprise-level storage without purchasing storage arrays\*

## About Dell Technologies APEX Data Storage Services

APEX Data Storage Services is an on-premises Storage as-a-Service offering from Dell Technologies that works as an alternative to buying and managing enterprise-class storage. APEX Data Storage Services enables customers to subscribe to hardware, infrastructure maintenance, and elastic capacity that they can manage via the APEX Console.

## Save on monthly storage costs with APEX Data Storage Services

We found that APEX Data Storage Services delivered significant cost savings compared to an Amazon EBS io2 Block Express solution configured to match its performance—up to 81.6% of monthly storage costs, or \$23,614.64.

Monthly cost  
*Lower is better*



■ Dell Technologies APEX Data Storage Services ■ Amazon EBS io2 Block Express (with 3-year subscription)

Up to **81.6%** saved monthly

## Comparable I/O performance

We configured an Amazon EBS io2 Block Express solution to match the IOPS and throughput performance of the APEX Data Storage Services solution we tested. In each case, the performance difference between the solutions was less than one percent.

IOPS  
*Higher is better*



■ Dell Technologies APEX Data Storage Services ■ Amazon EBS io2 Block Express

Throughput  
*Higher is better*

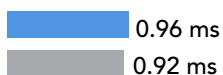


Comparable IOPS and storage throughput performance

## Sub-millisecond database sequential read latency and low average wait

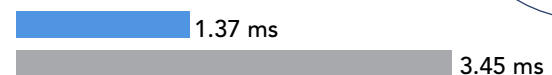
Each solution had sub-millisecond database sequential read latency. The APEX Data Storage Services solution had shorter average wait latency.

Database sequential read latency  
*Lower is better*



■ Dell Technologies APEX Data Storage Services ■ Amazon EBS io2 Block Express

Average wait (await) latency  
*Lower is better*



Sub-millisecond database sequential read latency

\*Our solutions: Dell Technologies APEX Data Storage Services (50TB of Balanced-tier block storage) and Amazon EBS io2 Block Express (16 x 3TB volumes with 21,916 provisioned IOPS each)

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