Dell APEX Data Storage Services File

Based on Best-in-Class Scale-Out NAS Technology

Dell Technologies is a trusted partner and the #1 leader in enterprise storage.[1] And now, with the flexibility to deploy your file storage through an as-a-Service model, you can be confident that your unstructured data will be stored, managed, secured, protected and analyzed efficiently, freeing up time for you to focus on maximizing the value from your data.

Any data, anywhere
Support a wide range of data types and diverse workloads with concurrent, built-in, multi-protocol, self-service capabilities including NFS, SMB, HDFS, S3, HTTP and FTP protocols.

Cost-optimized data placement
Lower costs with automated storage placement based on business rules and built-in intelligence.

Enterprise data protection
Reduce risk with highly resilient systems that offer seamless compatibility with proven enterprise-grade backup and disaster recovery solutions along with local and remote protection options.

Big Data integration
Seamlessly integrate with leading vendors like Pivotal, Cloudera, Hortonworks and Splunk to drive workloads in artificial intelligence, machine learning and deep learning with in-place analytics.

Multicloud flexibility
Multicloud readiness in collaboration with data center colocation[2] partners enables connectivity to the customers, partners and ecosystems that deliver the most value without any vendor lock-in.

Robust security options
Safeguard your company with Data at Rest Encryption (D@RE) via self-encrypting drives, role-based access control, authentication using LDAP/AD, access zones, file system auditing, SMB3 encryption, and HDFS transparent data encryption.

High availability
All Dell APEX Data Storage Services File infrastructure is designed for 99.9999% availability.[3]

Object-enabled
Support for S3 expands storage use cases to include cloud native development without the need to copy data.

Performance Tier	Capacity Optimized	Balanced	Dense Performance Optimized*	Performance Optimized
Description	Cost-optimized storage designed primarily for archive workloads	Hybrid platform designed for demanding enterprise file workloads	High performance, latency-optimized all-flash storage for medium to large scale deployments	Highest performance, latency-optimized all-flash storage for small scale deployments
Read Performance	14 MB/s per TiB	25 MB/s per TiB	89 MB/s per TiB	371 MB/s per TiB
Write Performance	4 MB/s per TiB	13 MB/s per TiB	28 MB/s per TiB	131 MB/s per TiB
Ops / sec	159 per TiB	270 per TiB	1440 per TiB	4717 per TiB
Min. Capacity	259.3 TiB	259.3 TiB	199.2 TiB	24.9 TiB
Target Use Cases	Archive / data tiering, video surveillance / digital evidence, medical imaging	Home directories, M&E content delivery, SW test/dev, Big Data / batch analytics	Real-time streaming and analytics, manufacturing, Life sciences, financial services, HPC, AI / ML / DL	Streaming / real-time analytics, data lakes for AI / ML / DL, M&E content creation, EDA / ADAS

*Dense Performance Optimized tier is exclusively available for Customer-managed subscriptions.

Read/write throughput performance based on NFSv3 protocol with 100% sequential read/write workloads (per 85% consumed base TiB). Maximum ops/sec performance based on NFSv3 protocol with a common NAS File Sharing benchmark (per 85% consumed base TiB). Higher performance could be achieved depending on subscribed capacity.

Learn more at Dell.com/APEX-Storage

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