DELL Technologies

APEX

SOLUTION BRIEF

APEX Multi-Cloud Data Services

Use the cloud you want, when you want

Benefits:

- Fast and simple multi-cloud access
- Eliminate cloud vendor lock-in with data independent of the cloud
- Scale up on demand without adding complexity
- Fully managed service – networking and storage
- Efficiently run compute-intensive workloads with reduced egress charges
- 3rd party proven, scalable multi-cloud deployments. ESG Technical Review: Solving Big Data Challenges for File Services with APEX Multi-Cloud Data Services

Capabilities:

- High-speed, low-latency connection to the public cloud
- Durable, persistent cloud attached storage
- Object storage archive with multi-cloud access
- No data egress costs
- No secondary data center or infrastructure to manage
- Predictable, subscription-based consumption model
- 24x7 support

Business Challenges

Organizations today are increasingly leveraging public clouds as part of their IT strategy for agility, application services and reduced Total Cost of Ownership (TCO). However, the public cloud can lead to challenges like the inability to scale storage capacity and performance effectively, high operating costs, vendor lock-in and data compliance and control issues.

Dell Technologies offers a solution that addresses these challenges by delivering durable, persistent cloud attached storage and data protection that is scalable, highly available and has a broad selection of service levels to optimize costs and keep businesses in control of their data.

Solution Overview

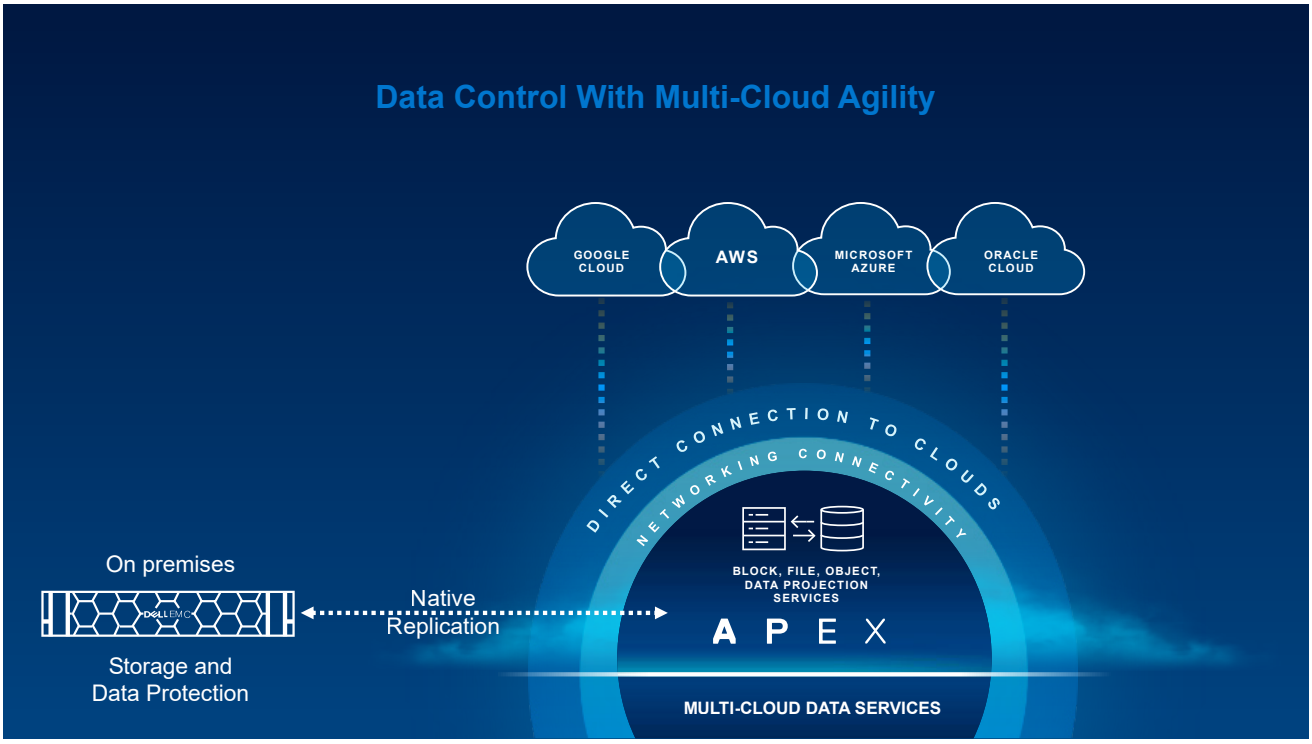
APEX Multi-Cloud Data Services allows users to connect their storage (file, block, or object) and data protection capacity directly to public clouds, including Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform and Oracle Cloud. This is done through a high-speed, low-latency connection between the service location and the clouds of choice. Organizations gain an on-demand cloud consumption model for compute workloads and storage, combined with the high performance and scalability of Dell Technologies infrastructure. The APEX Console provides a single user interface for ordering and managing multi-cloud connectivity. This solution is ideal for securely moving or deploying demanding applications to the public cloud for analytics, testing and development, disaster recovery, cyber recovery and more.

The Value of Multi-Cloud

Hyperscale cloud vendors are continually innovating and developing new services and capabilities, which makes multi-cloud access an undeniable competitive advantage. However, there can be significant time and complexity associated with moving data between clouds to take advantage of those capabilities. APEX Multi-Cloud Data Services offers agile, multi-cloud support allowing users to quickly and easily leverage needs with a single data set presented to all the cloud, to maximize buisness outcomes.

Organizations can avoid cloud vendor lock-in by keeping data independent of the cloud, so they do not have to worry about high egress charges, migration risk or effort required to move data. Extending the data center to the cloud empowers users to innovate in the cloud and easily scale cloud environments to support high-performance workloads, while reducing risk and maintaining complete control of their data.

A managed service approach to data complements the hyperscalers' approach to compute and software services. APEX Multi-Cloud Data Services is a managed service that provides cloud convenience for purchase and operations via a self-service user console.



Service Types To Support All Outcomes

APEX Multi-Cloud Data Services provides off-premises, off-cloud storage and data protection services that span the spectrum of data types and use cases. APEX Multi-Cloud Data Services can help data bridge the gap between off-premises and on-premises, for block, file, object and backup/data protection data. Moving data off-premises not only helps protect it, but also makes cloud-based processing available for data that originates on a user's premises.

Block Services with APEX Multi-Cloud Data Services can be used for applications ranging from a simple disaster recovery target to relational databases to top tier enterprise applications like SAP HANA. Applications benefit from high storage performance while taking advantage of APEX Multi-Cloud Data Services' low-latency connections to public clouds. Block storage is particularly appropriate for VMware applications that have been moved from on-premises to the hyperscalers, for example VMware Cloud (VMC) on AWS. PowerStore storage arrays can use Block Services with APEX Multi-Cloud Data Services as a replication target to move data offsite.

File Services with APEX Multi-Cloud Data Services support nearly all file data use cases from straightforward applications where using file data makes implementation easy to data-intensive scientific and technical applications. Using cloud-based capabilities for test and development and I/O sensitive media and analytics make good use of File Services with APEX Multi-Cloud Data Services. File data that reaches petabyte scale with processing requirements from archiving, i.e., almost no processing, to life sciences analytics to AI/ML training workloads are also a good fit. Both PowerStore and PowerScale storage arrays on-premises can use File Services with APEX Multi-Cloud Data Services as an off-premises, near-cloud replication target.

Object Services with APEX Multi-Cloud Data Services supports both application and archive use cases. The primary use case is for long-term retention and archive of data originated on PowerMax, PowerScale, and PowerProtect. Each of the supported storage arrays has its own connectivity to APEX Multi-Cloud Data Services with its own feature set – Cloud Mobility for PowerMax, Cloud Pools for PowerScale, and CloudTier for PowerProtect Data Domain. Object Services with APEX Multi-Cloud Data Services can be an offsite archive for on-premises storage or a cheaper tier for arrays that make capacity available to multiple public clouds, i.e., multi-cloud. Object Services with APEX Multi-Cloud Data Services can provide S3 protocol-connected storage for cloud native applications running in the hyperscalers. In all cases, Object Services with APEX Multi-Cloud Data Services minimizes egress charges because the data is not stored at the hyperscaler.

Data Protection Services with APEX Multi-Cloud Data Services provides data protection, management and recovery services for enterprise data that originates both on-premises and in public clouds. Data Protection Services with APEX Multi-Cloud Data Services gives organizations a single namespace across on-premises and public clouds to protect their data and applications, allowing organizations to manage their data separate from the public cloud. Leveraging a single destination for backup, archive and long-term retention, Data Protection Services with APEX Multi-Cloud Data Services offers organizations the ability to protect data running in the cloud provider of their choice, with one copy of their data deduplicated across all clouds, and it protects on-premises applications, simplifying networking and operations. Organizations can have one consistent data protection storage strategy, instead of managing data separately on-premises and in each public cloud.

Additional Capabilities for Targeted Use Cases

File Services with APEX Multi-Cloud Data Services solution for Microsoft Azure provides a higher bandwidth and lower latency connection to the Azure cloud using Azure ExpressRoute Local. With no outbound data traffic costs, this solution enables workloads that require a lot of temporary writes to storage to cost-effectively take advantage of Azure's application services. Data Protection Services with APEX Multi-Cloud Data Services solution for Cyber Recovery provides a secure data vaulting service that is a logically air-gapped vault built upon secure, multi-cloud-enabled infrastructure that safeguards critical data from cyber attacks. When data recovery is required, data can be restored from the vault to AWS, Microsoft Azure, Google Cloud, Oracle Cloud, or back to the on-premises environment.

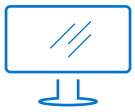
Why Dell Technologies APEX

With APEX Multi-Cloud Data Services, you gain the advantages of Dell Technologies infrastructure as-a-Service including high-availability for business continuity, data resiliency and flexible scalability coupled with the economic benefits of public cloud-based services for compute. The APEX Console enables acquisition and operations of APEX Multi-Cloud Data Services, including configuring and managing multi-cloud data connections.

Dell Technologies' storage and data protection products' native replication capabilities allow businesses to easily move their data from on-premises to workloads in the cloud. Customers have the ability to replicate from existing Dell Technologies file, block, object and data protection infrastructure. Compatibility with your on-premises arrays offers operational consistency that makes it easy to cloud-enable data that originates on-premises.

Availability and Services

Dell Technologies APEX Multi-Cloud Data Services is available in the US, UK, Germany and Australia for the following public cloud providers: AWS, Google Cloud, Oracle Cloud and Microsoft Azure.



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APEX Multi-Cloud Data Services

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