DELL Technologies

Solution Brief

Multi-cloud ecosystem flexibility with cloud-enabled storage

Software-driven innovation powers the “any data in any cloud” experience

Be cloud smart

Multi-cloud is here to stay. And when it comes to cloud ecosystem flexibility, no one does it better than Dell Technologies.

Use “any data in any cloud.” Intelligent storage on-premises, in public clouds, cloud adjacent or in colocation centers.

Dell has the broadest storage portfolio fully validated for multi-cloud support with all major hyperscalers and container orchestration platforms. *

Get enterprise scale – performance and capacity, by taking advantage of Dell’s rich storage and data protection services, such as our scale-out file system and advanced data reduction capabilities for applications running in public cloud.

Be smart about how you take advantage of public clouds with Dell.

Storage platforms with public cloud support include:

- PowerMax
- PowerStore
- PowerScale
- Dell EMC Unity

Managed services include:

- APEX Data Storage Services at Equinix
- Multi-Cloud Data Services enabled by Faction
- PowerScale for Google Cloud

*Based on Dell analysis, March 2022

The value of multi-cloud

As data is growing exponentially and is more distributed than ever, applications (and infrastructure) are being deployed in more places than ever before – in multiple data centers (owned or in colo facilities), in more than one public cloud, and increasingly, at the edge.

Customers want the agility of public cloud – quick provisioning, near-infinite scaling, access to developer services – and they want it in all these locations. This is what we see as multi-cloud – the cloud experience, seamlessly delivered wherever organizations have applications and data and empowering customers to get the most out of them.

“93% OF ORGANIZATIONS HAVE IMPLEMENTED / WILL IMPLEMENT MULTI-CLOUD IN THE NEXT 12 MONTHS.”

FORRESTER, DELL OPPORTUNITY SNAPSHOT, OCTOBER 2021

Not being confined to one cloud environment is also beneficial to developers, as it allows them to choose services from multiple cloud providers to best fit their specific needs.

Data has more value when it’s used in more places, cloud and on-premises

Dell storage solutions for multi-cloud

An ideal solution takes advantage of processing, software services and applications from multiple public clouds – and on-premises, has characteristics that put the value of the customer's data first, simplifies implementation and operations, and preserves high application performance.

Organizations already using hyperscaler environments can take advantage of Dell's rich storage and data protection services. Users can move data to public clouds for cost effective archiving and long-term retention, as well disaster recovery. Best of all, they get a consistent experience regardless of where the data is created and stored, with common management and operations tools across their entire cloud ecosystem.

Today, Dell's storage portfolio provides users with flexibility to leverage public cloud ecosystems in several ways:

Cloud Data Movement – Use data everywhere

Cloud Mobility for PowerMax offers seamless and transparent movement of application data copies from on-premises to cloud, enabling PowerMax customers to leverage public cloud for agile and economical storage.

PowerScale CloudPools enables data mobility across edge, core, cloud locations and multi-cloud – replicate, copy, backup, move, tier and file data – all from a single user interface.

PowerStore AppsON allows VMware virtualized workloads to run directly on the X models of the PowerStore array, delivering application mobility and flexibility. Users can take advantage of VMware capabilities including VMotion, Storage VMotion and HCX to move applications and data to cloud infrastructure.

> "With our ever-evolving architecture, our organization is always looking for new ways to take advantage of all the computing resources available to us. As we look to take advantage of the cost and accessibility of the public cloud, we look forward to leveraging tools like PowerMax Cloud Mobility to make our historic data accessible to the public cloud for analytics while allowing our mission critical processing to run on our private cloud."
>
> - Michael Loggins, Global VP of Information Technology, SMC

The Dell **Cloud Tiering Appliance** (CTA) lets users move data from Dell EMC Unity to and from cloud repositories based on user-configured policies. CTA can be used to tier file data and archive block data to the cloud, recall file data and restore block data from cloud, and migrate repositories between clouds.

Managed Services – Use a cloud consumption model

Multi-Cloud Data Services enabled by Faction provides simultaneous multi-public cloud data access, as-a-service, for Dell's block, file and object data storage and data protection offers, across four of the major hyperscalers.

APEX Data Storage Services (ADSS) at Equinix is Dell block and file storage capabilities deployed as-a-service at select Equinix locations. Users can build and interconnect infrastructure that leverages the best of ADSS and Equinix's multi-cloud ecosystem.

PowerScale for Google Cloud is a fully integrated native Google Cloud service comprised of the PowerScale family of scale-out NAS solutions, which includes PowerScale nodes and the OneFS operating system, operated by Dell Services and backed by enterprise SLAs.

New initiatives for cloud-enabled storage

Project Alpine which will enable Dell file, block and object storage software to run in the public cloud. Project Alpine will enable the best of public cloud services with Dell storage software, providing operational consistency between on-premises and cloud implementations of Dell software.

Dell is working with **Snowflake, Inc**. to give organizations more choice and control over their data for analytics. Dell plans to extend its on-premises ecosystem to support a multi-cloud experience for Snowflake which runs on public clouds.

Learn more: www.dell.com/cloud-storage

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