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Why Cloud File Storage

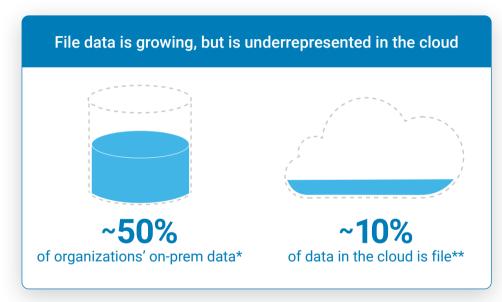
File data accounts for nearly 50% or organizations' on-premises data footprint. But only 10% of cloud data is file.

Despite the fact that file data is growing exponentially, it remains underrepresented in the public cloud due to several challenges:

- > Poor user experience
- > Scale and performance limitations
- > Vendor cloud lock-in, data gravity and latency

To accelerate hybrid cloud adoption for file data, organizations need:

- Interoperability with on-prem systems
- > Scalable performance and capacity
- > Enterprise-class data storage features



*Source: ESG, Performance Testing of Dell Technologies Cloud PowerScale for Google Cloud, June 2020
**Source: IDC, "4Q19 Storage Software and Cloud Services Qview Update Presentation," March 2020

Why Cloud Storage from Dell Technologies

Prior to Dell Technologies entering the market, there was no easy way for organizations to bring their high-performance file workloads to the cloud because of throughput bottlenecks, capacity limitations and missing storage features.

What you get from Dell Technologies

- > Leader in Gartner Magic Quadrant for distributed file systems
- > A complete portfolio of cloud storage services for file and block data
- > Cloud Data Protection services
- Expertise in vertical markets which run complex, technical file-based workloads such as M&E, Life Sciences, AI, EDA, Analytics, Healthcare, High Frequency Trading and many more

*Gartner, Inc. "Magic Quadrant for Distributed File Systems and Object Storage" by Julia Palmer, Jerry Rozeman, Chandra Mukhyala, Jeff Vogel, October 1, 2021.

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Dell Technologies recognized by Gartner® as a Leader in distributed file systems and object storage for 6th consecutive year*



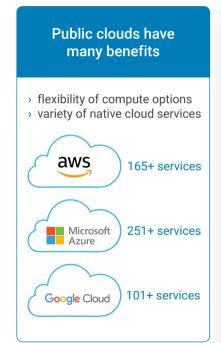


Source: Gartner (October 2021)

The Future is Multi-Cloud

Storage is one of the most critical elements of cloud adoption.

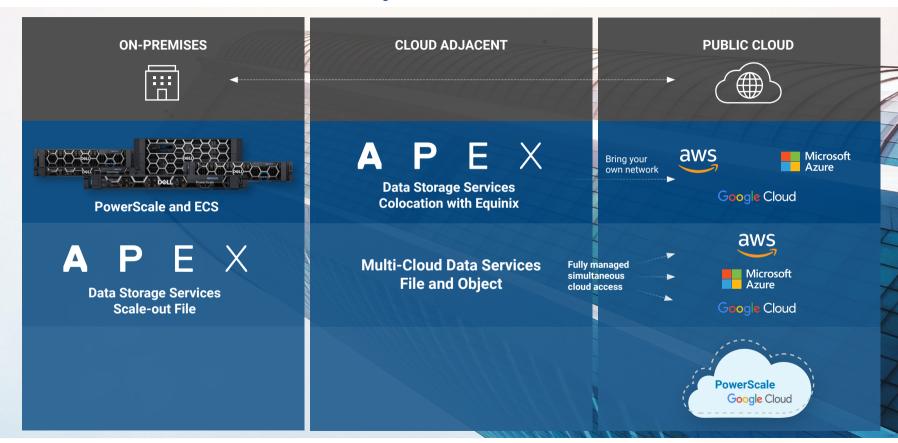






¹Gartner, Lessons Learned from the most common mistakes made by cloud infrastructure adopters, May 2020 ²IDC FutureScape: Worldwide Cloud 2019 Predictions

Consume PowerScale Anywhere Your Data Is



Private Cloud with APEX Data Storage Services

An as-a-Service portfolio of scalable and elastic storage resources designed for OpEx treatment.



File Services

LOCATION

- Data Center
- Dell-managed Colocation

DATA SERVICE

- File services
- Block services

PERFORMANCE

- Capacity optimized
- Balanced
- Performance optimized

BASE CAPACITY

Base capacity (TB)

100 Min: 50

TERM

- 12 months
- 36 months

Focus on outcomes, not infrastructure



SIMPLICITY, so you can remove complexity to deliver more value to your organization.



AGILITY, so you can manage unpredictability by responding dynamically to changing business needs.

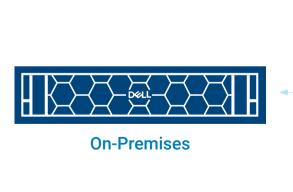


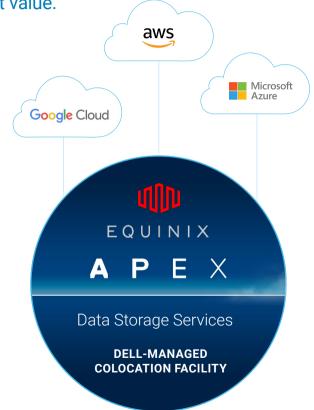
CONTROL, so you can reduce risk with flexible storage services that enable a true hybrid cloud strategy.

Equinix Colocation with APEX Data Storage Services

Deploy PowerScale as-a-Service where it can deliver the most value.

- > Relieve the burden of data center management
- > New opportunities for growth and expansion
- > Single invoice from a single vendor
- > Multi-Cloud ready
- Secure facilities
- Streamlined disaster recovery





Native Replication

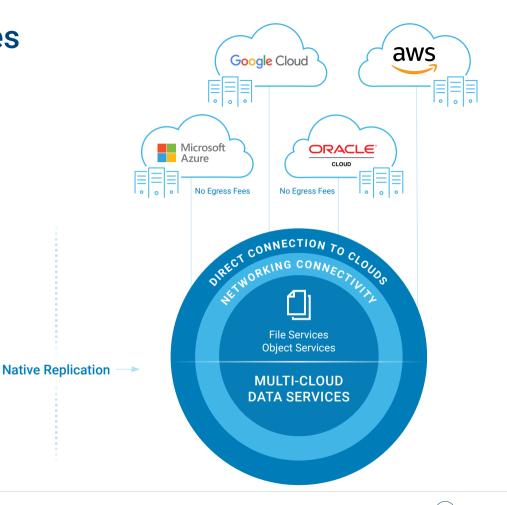
Multi-Cloud Data Services Enabled by Faction

Extend market leading PowerScale and ECS storage to public clouds of choice.

- > Easily switch or add clouds without moving data
- Reduce risks and costs with no conversion or refactoring of workloads
- Accelerate time to innovation with rapid deployment and capacity on demand



On-Premises



Multi-Cloud Use Cases for File Data

Businesses are innovating by using the best cloud services in these segments.



Life Sciences

 Accelerate time-to-insight for clinical genomic sequencing, drug design, and cancer research with multi-cloud AI and analytics solutions.



Healthcare

 Use one cloud for DR, another for processing (PACS) data, and a third for backups — all while improving diagnostic speed for service providers.



Big Data Analytics

- Leverage native HDFS on PowerScale with best in class performance.
- Use efficient storage for in-place analytics in public cloud.



Energy

Use AI tools to analyze PBs of information contained in satellite images and seismic surveys used to improve the effectiveness of drilling operations.



Automotive

- Leverage global multi-cloud sensor and metadata management for ADAS.
- Use high-speed, low latency connection to the public cloud for AI/ML.



Media and Entertainment

Leverage the best in breed tools from the public cloud of choice to collaborate throughout the production cycle on media.

Multi-Cloud Advantages

The multi-cloud strategy offers businesses the ability to switch between different public clouds in order to:



Defy Data Gravity

- Unlock innovation when sharing a common data set between clouds.
- > Eliminate data gravity and avoid storing multiple, out-of-sync copies of the data.



Avoid Vendor Lock-in

- Benefit from the unique native cloud services from different providers.
- Reconsider investing in a single cloud which may limit future opportunities.
- > Watch out for growing egress costs.



Mitigate Risk

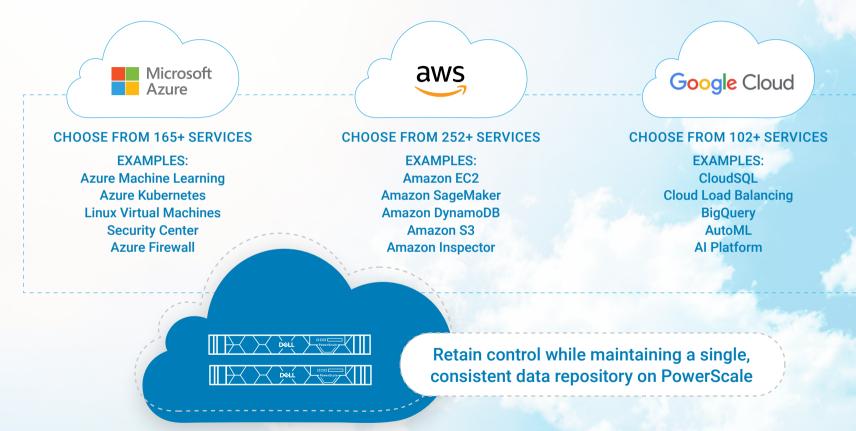
- Lower your exposure to cyberthreats that can overwhelm a single cloud.
- Distribute your cloud strategy across multiple providers to reduce exposure to a single point of failure.



Optimize Performance

- Choose the right cost/performance ratio of a cloud service for each workload.
- Get the best price by combining cloud services; for example, Azure's low-priority VMs, AWS spot instances, and Google Cloud's preemptible VMs.

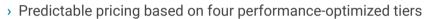
Choose What Service You Need from Each Public Cloud



PowerScale for Google Cloud

Power your most demanding file workloads in the public cloud.

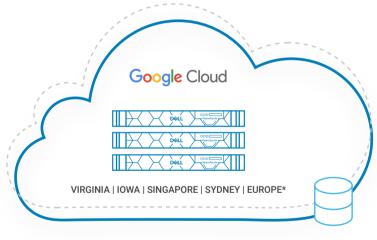
- > An integrated native Google Cloud service operated by Dell Services and backed by enterprise SLAs
- Google Marketplace integrated billing and support
- > Easily combined with the Google Cloud compute and analytics services



> A fully managed cloud service



On-Premises



Combining the performance and scale of Dell PowerScale with the economics and simplicity of public cloud.

*Check with your Dell sales contact for the complete list of locations

Native Replication

scale-out capacity up to **33** PiB effective

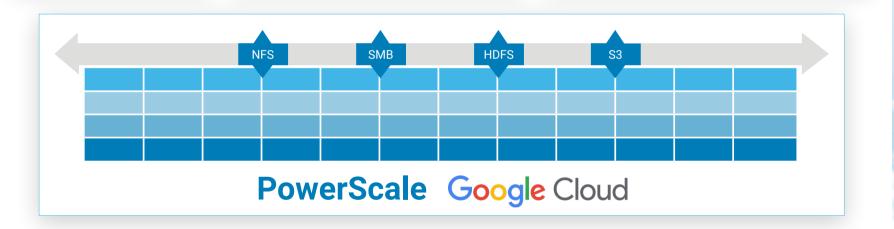
in a single namespace

scale-out performance up to **18.6** GB/s per **100** TiB

throughput with sub-millisecond latency

multi-protocol • native replication • snapshots

Enterprise-class data features



Native Cloud Experience

Completely integrated into Google Cloud.

- Available from Google Marketplace
- Provisioning, configuration and management of OneFS clusters in Google Cloud Console
- > Single bill and support from Google
- Predictable pricing and guaranteed performance
- Complete lifecycle management from Dell Technologies experts



Backed by Enterprise SLAs

Next Steps

