Faster, More Economical Hybrid-Cloud Backups with Dell EMC

How IT Service Leader DXC Boosts Data Protection for Amazon Web Services Workloads

CHALLENGE

As clients' data volumes grew, DXC clients needed improved scalability and performance for backup workloads in the cloud that traditional backup approaches could not provide.

SOLUTION

DXC evaluated alternative solutions and ultimately chose Dell EMC Data Protection Suite.

RESULTS

Using the Dell EMC Data Protection Suite, DXC delivers fast, efficient and cost-effective data protection to its clients, whether they are backing up to public clouds hosted by service providers or private clouds.

For many enterprises today, digital transformation is a driving force for innovation and competitiveness. Businesses in all industries are looking to automation and the Internet of Things (IoT) to streamline operations, expand customer touchpoints, and lower costs.

Adopting a hybrid-cloud strategy is often central to digital transformation. DXC Technology, a leading independent, end-to-end IT services company, partners with its thousands of clients worldwide to make this happen.

With data volumes continuing to grow, DXC Technology's clients required better performance and scalability of backups performed in the cloud. Traditional backup approaches could not meet these needs.

In response, DXC evaluated alternative solutions and ultimately chose Dell EMC Data Protection Suite on Amazon Web Services (AWS).

Increase speed and flexibility, and reduce costs

Using the Dell EMC Data Protection Suite on AWS, DXC delivers fast, efficient and cost-effective data protection to its clients, whether they are backing up to public clouds hosted by service providers or private clouds.

BENEFITS OF DELL EMC DATA PROTECTION SUITE WITH AWS:

- Performs full backups in 20 minutes instead of 10 hours and enables restores in 20 minutes.

- Reduces hardware required for backups by as much as 97%, greatly reducing costs.

- Supports up to 1,000 concurrent backup data streams, 10 times more than the best competitor.

- Provides the flexibility to meet clients' data-protection requirements with the right backup strategy.

- Simplifies data protection with consistent backup approach in public and private clouds.

- Enables policy-driven backup management in compliance with regulatory standards for data management and protection.

Broad spectrum of supported environments

DXC uses the Dell EMC Data Protection Suite to back up a wide range of client data to Dell EMC Data Domain systems. The service provider hosts clients' private clouds on Dell EMC Vxblock Systems.

Client operating environments and applications protected by the Dell EMC Data Protection solution include Windows and Linux environments, both physical and virtualized with VMware vSphere and Microsoft Hyper-V, as well as Oracle, DB2, Microsoft SQL Server, MySQL, SAP, Epic and numerous others.

Reduced costs for cloud-based backups

The Dell EMC Data Protection Suite provides DXC with flexibility to match the right backup strategy to clients' diverse data protection requirements. Some clients may need extremely high-speed backups for their critical Oracle databases, while less critical applications may only require traditional backups.

Patrick O'Brien, DXC offering manager, says, "The great thing about Dell EMC Data Protection software is that we can apply the right software functionality to solve each client's special requirements. And, we can do that efficiently and cost-effectively."

"With Dell EMC Data Protection software, we provide in-cloud protection of Amazon workloads," O'Brien explains. "With deduplication enabled by Dell EMC software, we further minimize data moved to our private cloud when writing to tape. This multitiered strategy allows clients to take advantage of the workload capabilities of Amazon-hosted services, while achieving compliance with complex regulatory and retention requirements."

ABOUT DELL EMC

Dell EMC, a part of Dell Technologies, enables organizations to modernize, automate and transform their data center using industry-leading converged infrastructure, servers, storage and data protection technologies. This provides a trusted foundation for businesses to transform IT, through the creation of a hybrid cloud, and transform their business through the creation of cloud-native applications and big data solutions. Dell EMC services customers across 180 countries – including 98 percent of the Fortune 500 – with the industry's most comprehensive and innovative portfolio from edge to core to cloud. To learn more visit: https://www.dellemc.com

"Now, with Dell EMC Data Protection software, we have one common solution regardless of where we back up our clients' data. It gives us data protection mobility, which simplifies life for users and greatly reduces risk of backup errors or failures."

Patrick O'Brien
DXC offering manager

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Data protection mobility across hybrid clouds

DXC gained greater agility to move client applications from AWS to its private cloud, or vice versa, while maintaining a consistent backup process. Previously, any time an application moved between private and public clouds, the backup approach and interface changed. This was disruptive and time-consuming for DXC's clients.

"Before, the way we protected public-cloud workloads was different from how we protected private-cloud workloads," says O'Brien. "Now, with Dell EMC Data Protection software, we have one common solution regardless of where we back up our clients' data. It gives us data protection mobility, which simplifies life for users and greatly reduces risk of backup errors or failures."

Huge performance boost with less hardware

By using Dell EMC Data Protection software, DXC also solved scalability and performance problems. Public-cloud solutions could be limited to 64 concurrent backup streams, which became a major constraint as DXC clients grew. In contrast, Data Protection software can handle 1,000 concurrent streams – 10 times more than Dell EMC's closest competitor.

Because Dell EMC Data Protection solution does not require media servers, DXC reduced the backup-related hardware by 97 percent while dramatically improving performance. "We can scale much more linearly and get the performance we need with a fraction of the hardware required by our previous solution," notes O'Brien. "That helps DXC lower costs, which we pass onto our clients as well."

O'Brien adds, "DXC has yet to find a data protection solution that measures up to the scale and cost-effectiveness of Dell EMC Data Protection software."

ABOUT AWS

For 11 years, Amazon Web Services has been the world's most comprehensive and broadly adopted cloud platform. AWS offers over 100 fully featured services for compute, storage, databases, analytics, mobile, Internet of Things (IoT) and enterprise applications from 43 Availability Zones (AZs) across 16 geographic regions in the U.S., Australia, Brazil, China, Germany, Ireland, Japan, Korea, Singapore, and India. AWS services are trusted by more than a million active customers around the world – including the fastest growing startups, largest enterprises, and leading government agencies – to power their infrastructure, make them more agile, and lower costs. To learn more about AWS, visit http://aws.amazon.com.