WHY MULTI-CLOUD DATA PROTECTION with Dell Technologies

DELL Technologies

Why Multi-Cloud 3

Why Data Protection to the Cloud 4

Why Dell Technologies Data Protection 5

WHY: Cloud Disaster Recovery 6

HOW: Dell EMC Cloud DR 7

SEE IT IN ACTION: Southern California Institute of Architecture 8

WHY: Long term Retention 9

HOW: Dell EMC PowerProtect DD Cloud Tier 10

SEE IT IN ACTION: Westgate Resorts 11

Why Dell Technologies Multi-Cloud Data Protection 12

Why Multi-Cloud

Multi-Cloud is the Future

As organizations embark on their cloud journey, many are realizing only a multi-cloud deployment model can provide the security, performance, and flexibility necessary to host their diverse workload portfolio.

A multi-cloud operating model offers scale, performance, and operational efficiencies, and a multi-cloud approach adds flexibility to these benefits.

But...

This multi-cloud world introduces new **challenges** while **trying to protect data**, particularly when doing so **with multiple vendor solutions**.

Clearly, organizations require solutions that can protect their data regardless of where it is hosted and provide a consistent experience across environments. Furthermore, data protection must be capable of consuming services across both the private and public portions of their cloud, giving them the flexibility they need to meet recovery service level agreements (SLAs) should data become lost or unavailable.

prefer a cloud deployment model[1]

said they're incorporating multiple public clouds

...while

report using more than one private cloud[2]

[1] *Vanson Bourne 2020 Global Data Protection Index. Learn More: https://www.delltechnologies.com/GDPI*
[2] *2020 Flexera State-of-the-Cloud-2020 report. https://www.flexera.com/2019-cloud-report*

Why Cloud Data Protection is a Mandate

Data Protection in the Cloud

- Ensures business continuity — keep applications running and ensure data is available
- Scalability to keep up with rapid data growth
- Deploy and protect new, cloud-native applications with confidence

Say the decision to use public cloud when deploying new business applications is driven by **more reliable data protection**[1]

Just because data is being redistributed and extended to the cloud does not mean protection of that data has become any less critical. In fact, it has become more so.

***Remember**: The responsibility to secure and protect all data assets in the cloud remains the responsibility of **the customer**.*

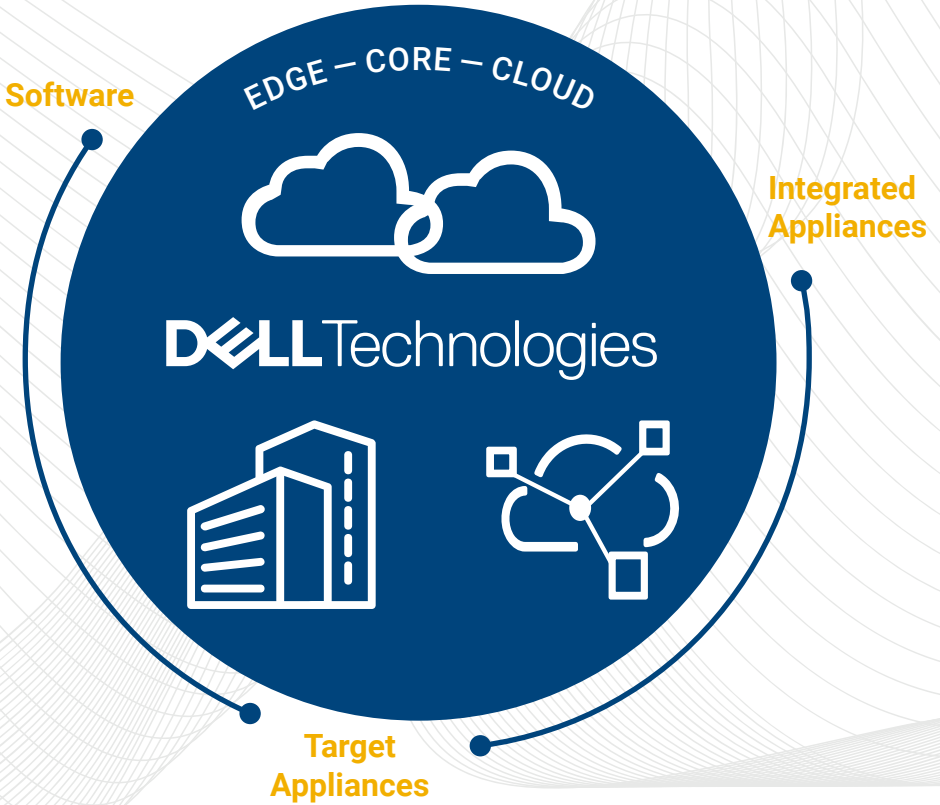
[1] *Vanson Bourne was commissioned by Dell Technologies to survey 1,000 IT decision makers across 15 countries globally on their data protection strategies, their approaches to data protection in cloud environments, and the relative preparedness of their businesses in cases of disruption. https://www.datadoghq.com/container-report/*

Why Dell Technologies Data Protection

When it comes to multi-cloud data protection, Dell Technologies has you covered.

Proven + Modern Portfolio

Dell Technologies is a proven leader in data protection and has been for over a decade. Dell Technologies Data Protection software and hardware has consistently been recognized as the top performer in the purpose-built backup appliance and software storage segments by thought leaders such as IDC and ESG. We have taken that pedigree — boasting over 2900 active and pending data protection patents[1] — and applied it to modern, **highly optimized cloud** environments.



[1] *Based on Dell Technologies analysis*

WHY: Cloud Disaster Recovery

Building a complete and efficient disaster recovery plan is critical in an uncertain world, but disruptive events are on the rise. Most organizations will navigate at least one disruptive event during the course of a year.

Cloud storage provides scalable, highly available and easy to manage backup and recovery targets, and when integrated as part of a well planned and designed disaster recovery plan, can minimize the effects of disruptive events, from human error to catastrophic events.

82% **have suffered from a disruptive event** (e.g. downtime or data loss) **in the last 12 months,**

compared to

76% **in 2018**[1]

[1] *Vanson Bourne 2020 Global Data Protection Index. Learn More: https://www.delltechnologies.com/GDPI*

HOW: Dell EMC Cloud DR

Cost-Effective Disaster Recovery

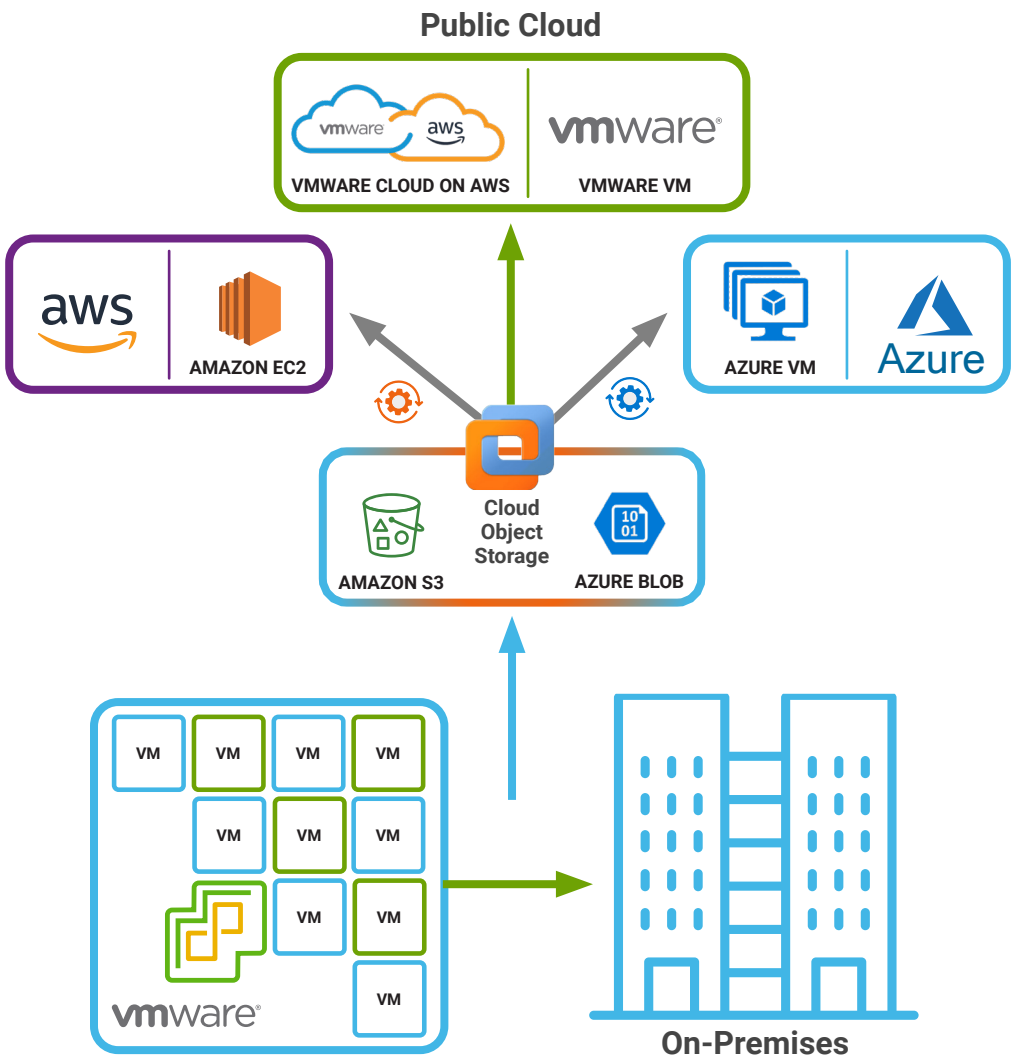
- Minimal cloud compute running 24/7 for minimizing cost
- Direct protection from PowerProtect DD on-premises to the cloud
- Recover to native cloud instances, VMware Cloud on AWS/Azure or directly back to on-premises vCenter

Simple Deployment and Management

- Leverage what you know and own, including Dell EMC, VMware, AWS, Azure, AWS GovCloud

Simplified, Fully Orchestrated DR

- Quickly and easily test DR to ensure data validity, then promote to Failover
- Orchestrated failover of workloads to AWS, AWS GovCloud, Azure in case of disaster
- In case of a data loss event, 3 click failover, 2 click failback



SEE IT IN ACTION: Southern California Institute of Architecture

"Our students spend countless hours creating animations and images, so it's critical to protect this data and make it available at any time." — Victor Jabrassian, Chief Information Officer, Sci-ARC

CHALLENGES

- Unable to keep up with rapid data growth
- Couldn't backup workloads fast enough
- High data needs due to students storing heavy animation & graphics files

SOLUTION

- Dell EMC Cloud Disaster Recovery
- Dell EMC PowerProtect DD
- Dell EMC Data Protection Software
- Dell EMC VxRail
- Single vendor to design, install, and maintain infrastructure

RESULT

- 90% of VMs backed up in 1 hour
- Hours for backup windows reduced from 36 to 3
- Retention of backups extended two years
- Less time spent on backup administration

 © Copyright 2020 Dell Inc.

WHY: Long Term Retention

Most organizations follow corporate or regulatory compliance requirements that govern how long data must be kept — not only is it legally required in many areas, it is also just good data governance. Traditionally, long term, infrequently accessed data would be the realm of tape. But archiving to tape is a costly and cumbersome process, and tape storage and retrieval introduces risk to the data recovery process. With the rise of low cost cloud storage technologies, it no longer makes sense to use tape for long term retention.

PowerProtect DD Cloud Tier can accelerate your migration away from tape and modernize your long-term retention by using cloud storage.

lack confidence in maintaining compliance with regional data governance regulations[1]

[1] *Vanson Bourne 2020 Global Data Protection Index. Learn More: https://www.delltechnologies.com/GDPI*

HOW: Dell EMC PowerProtect DD Cloud Tier

Simple, native tiering to the public, private or hybrid cloud

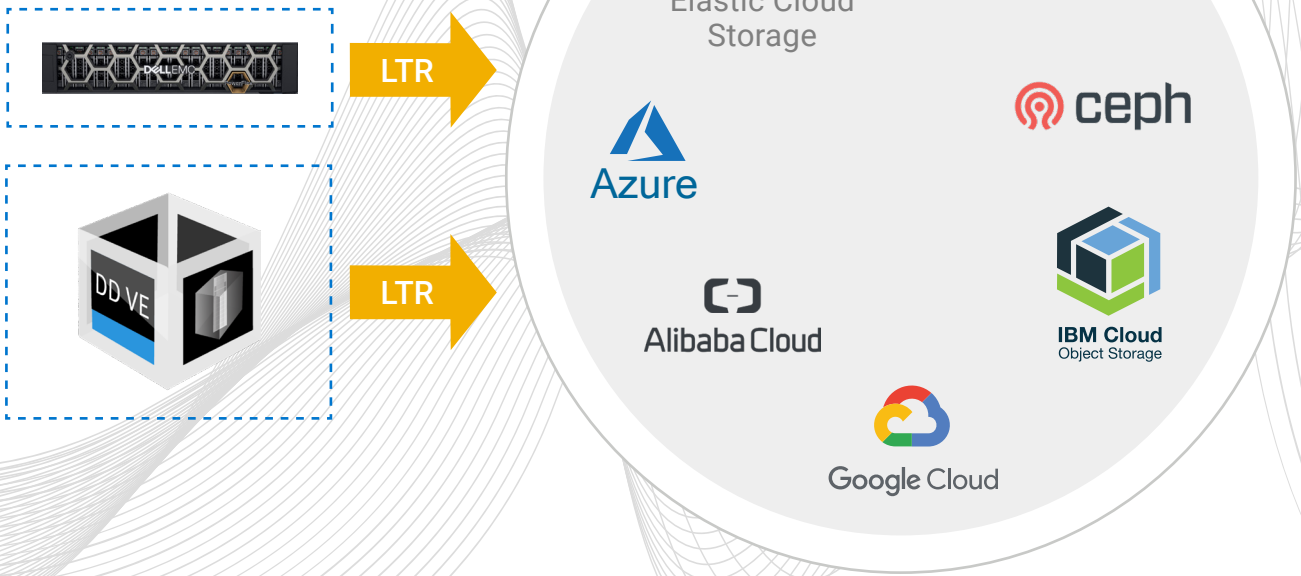
Flexible technology with broad cloud support

Efficient data transfer for long-term retention

Broad support across 3rd party backup solutions

Accelerate your tapeless journey

Cost effectively maintain compliance where necessary



SEE IT IN ACTION:
Westgate Resorts

"Before, nightly backups took 5-6 hours and monthly full backups required 10-12 hours. With Dell EMC Data Protection, nightly backups execute in one hour and full backups complete in three hours."
— Brian Grell Systems Engineer, Westgate Resorts

CHALLENGES

- Business expansion driving rapid data growth
- Slow data access impacting customer experience
- Complex infastructure

SOLUTION

- Dell EMC Cloud Tier
- Dell EMC PowerProtect DD
- Dell EMC Boost
- Dell EMC Data Protection Software
- Partners: VMware, Microsoft

RESULT

- 80% reduction in nightly backup time
- Easy management of on-premises and cloud backups
- Streamlined scalability meets business growth demands

Why Dell Technologies Multi-Cloud Data Protection

- **Cloud optimized for enterprise workload protection**
- **Extend on-premise data protection to cloud up to 100PB**
- **Widest protected workload ecosystem**
- **Protect traditional, next generation and Cloud IaaS / PaaS workloads**
- **Centralized management for multi-cloud & hybrid cloud environments**

Architecture Matters!

Dell Technologies Data Protection Solutions for Cloud

 © Copyright 2020 Dell Inc.