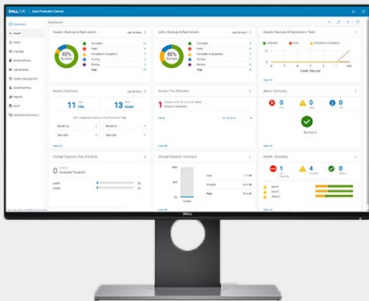# Confidently Protect Your Data in the Cloud

Telecommunications customers turn to Dell EMC Data Protection for simple, powerful data backup, restore and retention

Key features

- Modern, integrated user interface
- Self-service, multi-tenant and policy-driven backup
- Agentless backup and restore
- File-level restore (FLR) — no need to restore the whole instance or data set
- Scalable solution with industry-leading deduplication
- Non-disruptive, incremental backup
- Role-based access control (RBAC)
- REST API management
- Multiple stream support for concurrent backup or restore

Many communications service providers (CSPs) are evolving, or have already evolved, to hybrid and multi-cloud environments to gain IT flexibility and agility. This shift, however, brings new challenges in terms of data protection and retention. Costly and disruptive events or cyberattacks that cause downtime and data loss are on the rise. In fact, downtime and data loss was at a high of 82% in 2019, up from 76% in 2018.[1] It's a trend forcing CSPs to reevaluate their data protection strategy, especially in light of their ongoing cloud strategy.

To help CSPs address these concerns and safeguard their instances and virtual machines (VMs), Dell Technologies delivers two different data-protection extensions/plug-ins that integrate with OpenStack® and VMware® respectively. Both enable simple yet high-performance protection features designed for telco customers and their mission-critical workloads.

Safeguard data assets in the cloud

Dell EMC data-protection extensions/plugins combine Dell EMC certified hardware and Dell EMC Data Protection in fully integrated, scalable, turnkey solutions. They deliver agentless, multi-tenant and self-service data protection that:

- Is optimized for fast, daily full backups of physical and virtual environments
- Enables application-consistent recovery of telco workloads
- Uses variable-length deduplication for a higher performance and lower cost
- Provides intuitive centralized management and encryption for data security

The simple user interface or respective dashboards let users easily back up and restore projects or instances. You can perform manual backups on-demand, or automate that process by scheduling the timing and location of backups. And because the dashboards are tightly integrated with the OpenStack Horizon UI/RHOSP controller and VMware vCloud Director® (vCD), you don't need to switch between consoles.

Avamar's tight integration with Dell EMC Data Domain uses a multi-streaming, deduplication approach that results in faster, more efficient backups.

[1] Based on Dell analysis, February 2020.

Avamar delivers industry-leading deduplication

Avamar's deduplication dramatically reduces the amount of data sent and stored, eliminating backup bottlenecks and reducing storage costs. The numbers speak volumes:[2]

- Reduce network bandwidth usage up to 98%
- Reduce backup storage up to 36x
- Reduce backup times up to 50%
- Instant access of up to 32 simultaneous VMs

Why choose Dell EMC Data Protection for Telco?

Whether you're using Red Hat® OpenStack Platform or VMware vCD to run your telecommunications NFV workloads, you can rest assured that Dell EMC server hardware and our data protection extensions/plug-ins work together to deliver the comprehensive cloud protection you're seeking.

Dell Technologies knows data protection. We have a complete portfolio of data protection solutions that help safeguard data in case of loss, failure, disruption and more. We give you the freedom of choice to customize your solution with flexible deployment options. And we're currently the only vendor offering data protection integrated with OpenStack.

Combine that with industry-leading deduplication, radically simple dashboards, automation, and data retention capabilities, and you're not just protecting your data or meeting regulations more easily, you're also saving a lot of time, labor and money in the process.

[2] Dell EMC, "Dell EMC Avamar data sheet," 2018.

Learn more about protecting data in hybrid or multi-cloud environments at delltechnologies.com/dataprotection.

Contact a Dell Technologies sales representative. Visit delltechnologies.com/dataprotection.

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