

Protecting Your Workloads in the Cloud

Organizations need to be able to protect a variety of new data sources, ranging from traditional applications running on their cloud infrastructure to born-in-the-cloud applications that take advantage of Platform-as-a-Service (PaaS) services. It gets even more complex as organizations must protect diverse workloads in multiple clouds. More than 56% of organizations say the decision to use public cloud when deploying new business applications is driven by more reliable data protection¹. Dell Technologies data protection solutions provides the answer these organizations are seeking.

The inherent benefits of the cloud, including elasticity of resources, ease of instantiating new Virtual Machines (VMs) and new DBaaS through automation, enables organizations to realize the full potential of IT on-demand. Now, enterprises need to protect a variety of data sources such as VMs, DBaaS, object storage and file services. The required solution is an automated and agile, enterprise-grade solution and Dell EMC can provide these capabilities in flexible, in-cloud solutions.

PowerProtect Data Manager protecting workloads in AWS and Azure public clouds

Enterprise management is increasingly leveraging the public cloud as an extension of data center operations to assure that data is secure, available and recoverable. This all rests on the IT operations' decisions. Leveraging a common data protection solution across your on-premises infrastructures and to and from the public cloud will enable you to achieve operational efficiencies and save costs. For these IT operators and backup administrators that are taking advantage of these benefits or are planning for self-service backups and restores from dependable application tools, PowerProtect Data Manager can provide in-cloud protection of many critical and diverse workloads.

Data Manager protects modern workloads such as Kubernetes and VMs running in VMware Cloud as well as business critical and traditional workloads such as Oracle, SQL, SAP HANA and File System workloads running on Amazon Elastic Cloud Compute (EC2) and Azure. Included and licensed with Data Manager is PowerProtect Cloud Snapshot Manager, which, when enabled simplifies snapshot management, providing organizations a capability of protecting both IaaS and PaaS workloads via a single SaaS control plane.

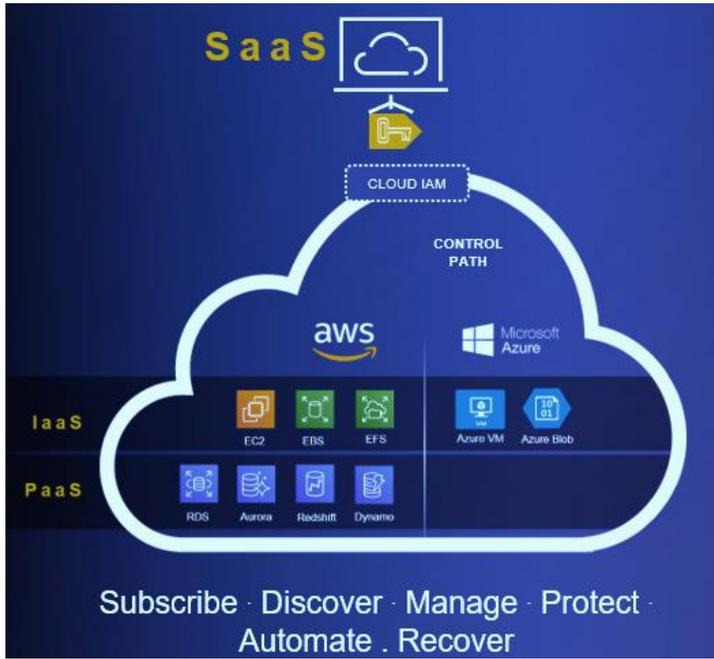
PowerProtect Cloud Snapshot Manager: SaaS solution providing native backup and disaster recovery

Cloud Snapshot Manager makes it simple for customers to discover, orchestrate and automate native snapshots across multiple cloud accounts and regions based on policies. Cloud Snapshot Manager offers seamless backup and disaster recovery based on snapshots in AWS and Azure; without any need to deploy additional infrastructure in the cloud. Cloud Snapshot Manager eliminates cloud silos and provides a more efficient and automated way to protect all workloads running in cloud from a single management console.

Benefits

- Protect enterprise-grade applications in AWS and Azure
- Self-service backups and restores
- Same functionality in-cloud as on-premises
- Easy to deploy from the AWS or Azure Marketplaces
- Manage on-premises and in-cloud workloads from one location
- The performance, efficiency, and reliability of PowerProtect DD Virtual Edition
- Industry-led deduplication for lower TCO

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.



This solution provides the ability to copy snapshots across AWS accounts for additional security and disaster recovery, while reducing costs by automatically deleting snapshots per policy. Designed for any size cloud infrastructure, Cloud Snapshot Manager provides auditing, reporting, role-based access control and multi-tenancy so that as your company grows, your protection scales with you.

With Cloud Snapshot Manager in the cloud, you have access to a SaaS solution that requires zero infrastructure and provides global visibility and control across Azure and AWS environments. It has an advanced policy engine with tag-based automation for backups. Application consistent backups and recovery enable admins to employ single click, group and file-level restores. Automatic assignment of resources to protection policies based on tags is essential to achieve auto-scaling in the cloud with the peace of mind that your resources are protected.

Cloud scale automation

Traditionally, deploying and operating enterprise workloads is a time-consuming and manual process. It often involves repetitive tasks, such as sizing, provisioning and configuring resources like VMs; establishing VM clusters and creating storage LUNs. Additionally, invoking virtual networks and load balancers, building the deployment; and then setting up the systems to be protected by installing agents. Whilst depending on an underlying physical infrastructure, all these steps are often fraught with errors and can lead to delays in the workload's availability to the end users. The elasticity of the cloud and "infinite" availability of ready-to-go infrastructures enables users to fully automate these repetitive and manual processes.

Cloud automation enables organizations to eliminate the overhead for workload deployment and management. To achieve cloud automation, the IT team needs to use orchestration and automation tools that run on top of their cloud environment. When implemented properly, cloud automation saves an IT team time and money. It also leads to fewer errors, as organizations can construct more predictable and reliable workflows, enabling organizations to be more agile and offer on-demand IT capabilities to their customers. Data Manager provides a rich set of application consistent capabilities for in-cloud workloads which reduces time to recover. Cloud Snapshot Manager unleashes the cloud scale automation in your environment. With a powerful policy engine which allows automatic assignment of resources to policies you can automate protection of your cloud resources from the moment they are instantiated and setup automatically.

PowerProtect Data Manager and Cloud Snapshot Manager together enable you to have the peace of mind you need knowing that your modern and enterprise grade applications are fully protect in the cloud and you are able to achieve the automation and scale that you expect from multi-cloud solutions.