

## Dell EMC Data Protection Solutions for Microsoft Azure

Unleash the full potential of cloud data protection with Microsoft Azure and Dell Technologies

### Cloud Data Protection

#### Trusted Data Protection Partner

- Proven + Modern solutions delivered as software defined or integrated appliances
- Extend your on-premises data protection to Azure
- Breadth of workload ecosystem from traditional to next-generation Azure IaaS/PaaS workloads

#### Simple, Easy and Efficient

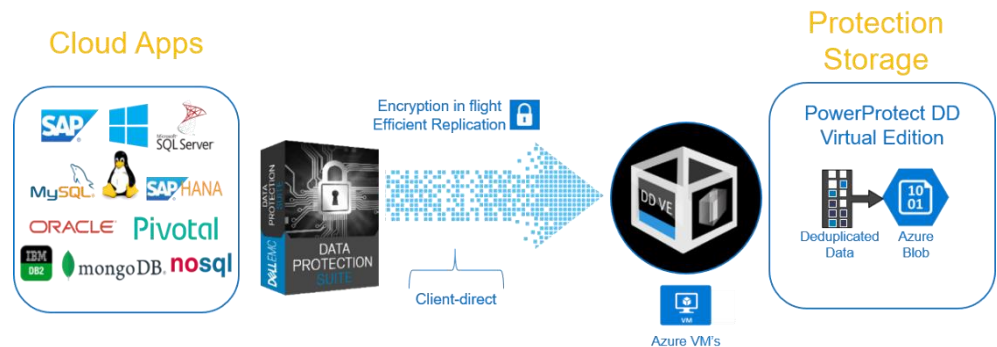
- Efficiently replicate to, from and between multi-cloud environments for maximum data agility across edge, core and cloud
- Dell is a Microsoft Gold Partner, with products available on the Azure Marketplace
- Automation available via REST API integration in a SaaS solution

#### Why Dell

- Architecture Matters: cloud optimized for enterprise workloads
- Leverage industry-leading deduplication for low cost-to-protect and TCO
- Single pane of glass to manage across on-premises and in the cloud

Microsoft is a ubiquitous name in technology, from applications to cloud infrastructure, touching every industry, including retail, e-commerce, and financial services to name a few. Dell has long been a leader in on-premises data protection and brings that proven expertise to the cloud, with modern data protection and backup solutions for Azure customers, no matter where they are in their cloud journey.

The Dell EMC data protection portfolio is focused on protecting an organization's most valuable asset, their data. For years, we have protected our customers' data through long-term retention, disaster recovery, in-cloud backup, backup to cloud and more. Our data protection is built on an architecture that delivers consistent ease of use with powerful performance and efficiency at scale across the widest application ecosystem, with the choice and flexibility of software defined or integrated appliances to protect and manage their data.



### Disaster Recovery in the Cloud

Dell enables organizations to leverage Azure cloud for disaster recovery of virtual machines (VMs). Specifically, Dell EMC Cloud Disaster Recovery (Cloud DR) enables you to copy backed-up VMs from your on-premises Dell EMC Data Protection environments to Azure for automated and orchestrated DR testing, and failover and failback of cloud workloads in a disaster scenario. With 3 clicks to failover and 2 clicks to failback, you can quickly recover data and applications directly to Azure, with seamless integration to your on-premises data protection infrastructure – no additional backup and recovery infrastructure in Azure is needed for the recovery. Cloud DR takes advantage of the agility and cost-effectiveness of Azure Blob storage, requires a minimal Azure footprint and minimal compute cycles, enabling a disaster recovery solution at minimal cost.

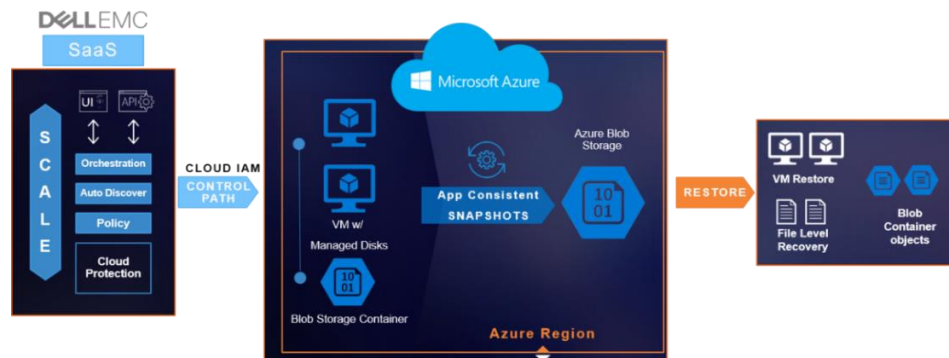
## Long Term Retention and Compliance

Organizations can leverage Microsoft Azure to improve their long-term data retention efficiencies and manage governance and compliance policies. Dell EMC PowerProtect appliances provide automated, native tiering of deduplicated data to the cloud with Cloud Tier. This cost-effective solution reduces transactional overhead by sending only unique data to Azure for reduced storage footprint and network bandwidth. With Dell, businesses gain the advantages of Azure while lowering overall TCO, and customers can start small with as little as 1TB and scale as needed; up and to 2x system capacity.

## In-Cloud Protection

Dell Technologies is an industry leader protecting in-cloud workloads. Our data protection solutions deliver consistent functionality and capabilities from our on-premises solutions to the cloud and across hybrid environments, with the ease of management from a single location. Dell EMC Data Protection Suite provides the same broad portfolio of protection capabilities in the cloud as it does on-premises. Organizations can deploy Dell EMC data protection solutions to begin protecting their data using an extensive set of application agents, while managing backup policy through a modern HTML5 user interface. Those who prefer to use application-native tools for protection can deploy Dell EMC PowerProtect Data Manager or Data Protection Suite to ensure efficient protection without changing their processes.

All these solutions can write to Dell EMC PowerProtect DD Virtual Edition (DDVE) as their target in the cloud, for the performance, efficiency and reliability of a PowerProtect DD appliance in the cloud. DDVE scales up to 96TB of secure data storage capacity using low-cost object storage and leverages industry-leading deduplication for lower TCO.



## Data Protection Management for Microsoft Azure

Dell EMC PowerProtect Cloud Snapshot Manager (CSM) is a SaaS solution, removing any infrastructure cost and making it simple to seamlessly protect workloads in Azure, with no installation or additional infrastructure required. It enables discovery and visibility to resources across Azure subscriptions, all protected through a single CSM administration portal. CSM is designed from the ground up for any size cloud infrastructure with auto scaling, audit log and reporting – you can set it and forget it using a modern UI. CSM continues to develop its enhancements to serve Azure customers. Now PowerProtect Cloud Snapshot Manager enables incremental snapshots of Azure managed disks. This can drive enormous value, as it reduces storage costs and backup times significantly while achieving shorter RTOs. At the same time you can have instantaneous access to your data from snapshots. By leveraging the underlying snapshot technology of Azure, you can discover, orchestrate and automate snapshots for Azure VMs and blobs, and have the option of one-click restores of VMs including the configuration settings.

## Dell Technologies Data Protection Solutions – Paving Your Way to the Cloud

Data protection and backup and recovery operations are at the heart of any organization’s IT infrastructure, and as such, are often among the first applications migrated to the cloud. Azure storage provides scale and operational and economic efficiencies, but in the end the protection of your data rests in your hands. Dell Technologies provides industry leading solutions to ensure you get the most from your cloud journey and protect your most valuable asset – your data.



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