

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

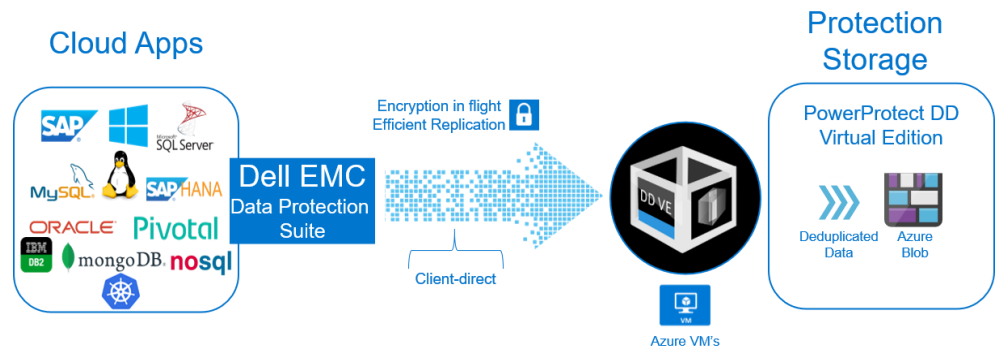
- Efficiently replicate to, from and between multi-cloud environments for maximum data agility across edge, core, and cloud
- Dell is a Microsoft Gold Partner, with products available on the Azure Marketplace
- Automation available via REST API integration in a SaaS solution

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
- Dell EMC data protection reduces cloud resources and services costs by up to 84%¹

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 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 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 or Azure Government 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. In fact, Dell EMC data protection reduces time to recover in the event of a disaster by up to 85%¹.

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 unified 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. These cloud-ready solutions write to Dell EMC PowerProtect DD Virtual Edition (DDVE) as their target, for the reliability, performance and storage efficiencies of a Dell EMC PowerProtect DD appliance in the cloud. DDVE scales up to 256TB of secure data storage capacity using low-cost object storage and leverages industry-leading deduplication for lower TCO.

Dell allows customers to protect business-critical workloads in Azure by running PowerProtect Data Manager in Azure. Data Manager protects Oracle, SQL, SAP HANA, File System workloads running on Azure, Kubernetes (k8s) or VMs running in Azure VMware Solution. Dell EMC Data Protection solutions also leverage industry-leading deduplication to lower TCO, as well as minimize your Azure footprint and compute cycles. Our architecture also enables organizations to take advantage of lower-cost and highly durable Azure Blob object storage.

Modern Workload Protection

Cloud native technologies empower organizations to build and run scalable applications in modern, dynamic environments such as public, private, and hybrid clouds. However, these containerized workloads must be backed up, secured and protected. With Dell EMC PowerProtect Data Manager, cloud native workloads are protected and managed with the same performance, security, and efficiency as other workloads, meaning your data is protected before, during, and after your transformation to next generation technologies. PowerProtect Data Manager gives developers and administrators the ability to automatically deploy the Kubernetes pods onto clusters in Azure and as well as store in-cloud for burst developments, QA/Test in “production”, as well as employing self-service backup and restores. PowerProtect Data Manager protects these Kubernetes clusters running on Azure with PowerProtect DDVE as the target.

Dell Technologies also protects container workloads using in-cloud Kubernetes services such as Azure Kubernetes Service (AKS). PowerProtect Data Manager protects Kubernetes clusters hosted on AKS, using PowerProtect DDVE as a backup target, providing administrators with the flexibility to protect clusters from an on-premises storage disk, hosted on the AKS instance in the public cloud. In addition to the rich service features that are provided by the end platforms, all the enterprise-features are additionally accessible via Data Manager. These extra features include policy creation, application consistency, cluster restores between clusters, and self-service.

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

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¹Based on ESG review commissioned by Dell, “Analyzing the Economic and Operational Benefits of the Dell EMC PowerProtect Data Protection Portfolio”, September 2020, evaluating the economic value of the Dell EMC data protection portfolio. Actual results will vary

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.

Microsoft 365 Protection

Organizations need choice when it comes to data protection so they don't have to make compromises, and Dell Technologies delivers just that with a variety of cloud data protection capabilities that allow you to protect your data while taking advantage of the agility and flexibility of the cloud. Now, organizations with Microsoft 365 can mitigate the risk of data loss, preserve backup data and proactively monitor compliance with Dell EMC PowerProtect Backup Service. Dell EMC PowerProtect Backup Service for SaaS Apps delivers unified data protection, management, and information governance for SaaS applications, such as Microsoft 365. A single dashboard provides management, compliance monitoring, legal hold and federated meta-data search across files and email.

Azure VMware Solution

As customers continue to move workloads to the cloud, VMware and Dell Technologies offer a unique joint engineering initiative bringing modern next-generation data protection for VMware workloads to the edge, core, and multi-cloud. Dell offers the same best-in-class data protection for on-prem environments as well as VMware workloads in the cloud. Dell enables you to seamlessly migrate VMware workloads to Microsoft Azure while lowering costs and freeing the business to innovate. It's the benefits of cloud computing with proven and modern solutions for virtual machines. Additionally, Dell enables you to accelerate modern transformation with deep and seamless integration into VMware and Azure native management tools making the transition fast and simple. Customers will also benefit from the scalability, performance and cost-effectiveness of the combination of Microsoft Azure and Dell EMC Data Protection solutions for backup and recovery, cloud disaster recovery and long-term retention. Combined expertise, deep systems integration to help customers modernize IT and centralized management are why thousands of customers globally choose Data Protection solutions from Dell Technologies for their VMware data protection needs.

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

Data protection and disaster recovery 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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