

## Dell EMC Cloud Disaster Recovery

### Simple, Cost-Effective Disaster Recovery to the Cloud

#### Value of Dell EMC Cloud Disaster Recovery

##### Cost-Effective DR

- Dell EMC data protection reduces time to recover in the event of a disaster by up to 85%<sup>1</sup>
- Minimal cloud compute running 24/7 for minimizing cost, only spinning up additional DR resources for an event
- Direct protection from PowerProtect DD on-prem into AWS, AWS GovCloud and Azure
- Recover to native cloud instances, VMware Cloud on AWS or directly back to on-premises vCenter

##### Simple Deployment and Management

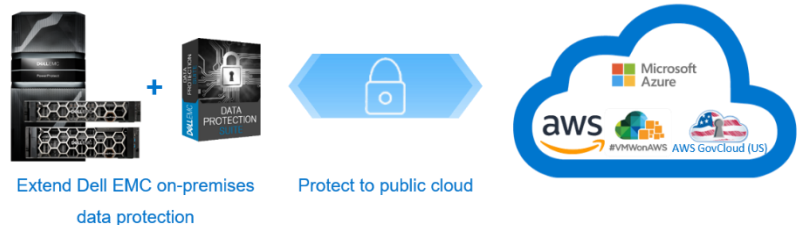
- Leverage what you know and own – Dell EMC, VMware, AWS, Azure, AWS GovCloud
- Extend the existing on-premises data protection infrastructure.
- Add and manage Cloud protection from your familiar Dell EMC GUI
- Easy HTML5 UI to directly monitor protection and manage recovery flows in the cloud

##### Simplified, Fully Orchestrated DR

- Test DR then promote to Failover
- Orchestrated failover of workloads to AWS, AWS GovCloud, Azure in case of disaster
- Direct recovery to VMware Cloud or on-premises vCenter
- 3 click failover, 2 click failback

#### Deploying Disaster Recovery in the Cloud

With the growing transition to cloud computing, many organizations are looking to leverage the cloud to enhance their disaster recovery (DR) plan. In the past, organizations found DR to be expensive and difficult to manage (servers, backup and systems), but the options to reduce the costs and complexity were limited. In fact, DR testing and recoverability were often manual and did not include a routine checklist with pre-planned activity. Most organizations are not confident of recovering in a timely manner when disaster strikes, but this is where Dell Technologies comes in. Dell EMC data protection reduces time to recover in the event of a disaster by up to 85%<sup>1</sup>.

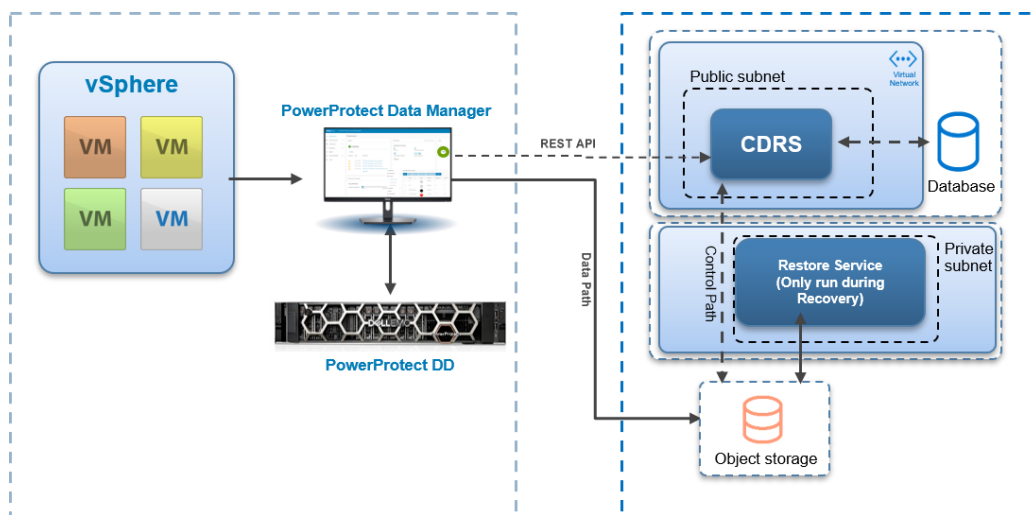


#### Dell EMC Cloud Disaster Recovery

For organizations looking to the cloud as a disaster recovery option, Dell EMC Cloud Disaster Recovery (Cloud DR) allows enterprises to copy backed-up VMs from their on-premises PowerProtect DD using Data Protection Suite, PowerProtect DP series appliances, or PowerProtect Data Manager environments to the public cloud (AWS, AWS GovCloud, Azure) to orchestrate DR testing, failover and failback of cloud workloads in a disaster recovery scenario. These workloads can be run directly in the public cloud, so full deployment of your on-premises data protection solutions in the cloud is not required in order to protect and recover your VMs.

The restore servers within the cloud are spun up only if the primary data center is not available and decommissioned when no longer needed, which is more cost-effective than having hardware up and running within the public cloud. Delivering a consistent experience by extending your existing on-premises data protection to the cloud delivers a familiar user experience, thus requiring minimal education and training, and direct in-cloud access, monitoring and reporting. Additionally, organizations can manage, recover, failback and test DR plans through the Cloud DR Server (CDRS) UI. Cloud DR takes advantage of the agility and cost-effectiveness of cloud object storage (AWS S3 or Azure Blob), requires minimal footprint in the public cloud, as well as minimal compute cycles, delivering a highly efficient disaster recovery solution.

<sup>1</sup>Based 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



### Recover to VMware Cloud

Cloud DR offers efficient cloud resource consumption by efficiently extending your on-premises data protection to VMware Cloud on AWS by directly recovering the VM images stored on AWS S3 to new virtual machines over the VMware Cloud Software Defined Data Center (SDDC). Once the VMware Cloud SDDC environment is up and running, you can start recovery of selected VMs from the CDRS UI, rather than recovering your entire VM environment at once. The VMware Cloud SDDC environment is not required during on-going protection and can be obtained on-demand when recovery is needed, which is much more cost-effective than having the VMware SDDC constantly running.

### Cloud DR Orchestration

Cloud DR orchestration features include the support of recovery run books, which enable administrators to create one or more DR plans to recover multiple VMs with preconfigured boot order and recovery orchestration. Simple recovery workflow only requires you to select the desired copy; then Cloud DR will automatically orchestrate all operations needed until the requested point in time is restored. Recovery RTO can be shortened to just a few minutes by using rapid recovery for selected VMs. Creating a rapid recovery copy starts a rehydration process and converts the VMDK files to the required format depending on the cloud provider environment. The recovery process then only needs to launch the recovered instance.

### Summary

Cloud DR offers tremendous efficiency through simplicity, faster recovery and lower costs, in terms of performance, infrastructure and administrative overhead. Leveraging the cloud as a deployment choice can provide a better value than traditional methods and provides a simplified, fully orchestrated DR solution for organizations of all sizes. With Dell Technologies, you can transform your data center to enable greater operational efficiency, resiliency and scalability. Whether you want to leverage cloud computing now or in the near future, Dell Technologies can help you transform your environment for the future, laying the technical foundation for the data center while modernizing your cloud data protection right along with it.



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