

# Dell EMC Avamar Virtual Edition

## Benefits

- **Cloud data protection:** In-cloud backup, DR and LTR to cloud
- **Hypervisor Integration:** Integration with VMware and Microsoft
- **Self-Service Recovery:** Application owners take control of the data protection of their applications
- **Simplified Administration:** Wizard driven setup and management
- **Centralized monitoring and reporting with DPC:** A single interface for monitoring, management, reporting and search
- **Granular Level Recovery:** Immediate item level recovery with granular level recovery of data and applications
- **PowerProtect DD integration:** Optimized backup and recovery solution
- **Instant Access:** Instant recovery of VMs that were backed up to a PowerProtect DD

Companies are redefining their backup and recovery solutions to meet challenges brought on by accelerated virtualization and movement to the cloud. These conditions require that companies design data protection from edge to core to cloud.

## Comprehensive backup and restore

Part of Data Protection Suite, Dell EMC Avamar provides flexible deployment options for fast, daily full backups supporting:

- Virtualized and physical environments
- Multi-cloud backup and disaster recovery
- Enterprise applications
- NAS systems
- Remote offices
- Desktops/laptops

## Avamar Virtual Edition Cloud Experience

Avamar Virtual Edition (AVE) offer simple deployment in AWS and Azure by taking advantage of native-cloud formats: Azure AME and Azure VHD.

## Extend to the cloud

- **Disaster Recovery to AWS and Azure** enables customers running Data Domain to leverage Data Domain Cloud Disaster Recovery (CDR), a feature that provides orchestrated DR testing, orchestrated failover in the event of a disaster and failback following a disaster. CDR for AWS also delivers application consistent protection as well as recovery to VMware Cloud.
- **Long Term Retention to the Cloud** allows data to be natively tiered to the public, private or hybrid cloud for long-term retention. Orchestration occurs directly within Avamar UI.

## Backup in the cloud

- **Backup in the cloud** with AVE and PowerProtect DD Virtual Edition (DDVE) on object storage you are offered a cost-effective backup solution that protects applications and data in public, private and hybrid clouds.
- **VMware Cloud on AWS** provides customers with industry leading data protection for all workloads running on VMware Cloud.
- **Backup in Azure Stack** makes it easy to perform guest-level file system backup and recovery, as well as application consistent backup.

## Optimized Protection for Virtual Infrastructure

AVE is optimized for virtualized environments and delivers software-only data protection for VMware and Hyper-V.

### VMware

#### Performance

- Change Block Tracking (CBT) for fast backup and recovery
- High-speed, image-level backup and recovery for bare metal protection of each VM
- Automated proxy load balancing to ensure backups complete within the specified backup window

#### Ease of Administration & Configuration

- Dynamic policies reduce the risk of VMs being unprotected or protected with insufficient policies
- Automated snapshot management provides snapshot discovery and cleanup of orphaned snapshots
- Integration with VMware interfaces
  - The vRealize Automation Data Protection Extension embeds data protection directly into VM blueprints, which ensure that data protection is always applied during the VM provisioning process. vAdmins manage data protection from within the vRA UI.
  - The vCloud Director Data Protection Extension makes it easy for Cloud Providers to offer low cost backup and recovery. Tenants perform self-service backup and recovery from the vCloud Director Tenant Portal.
  - The vSphere plug-in provides self-service backup and recovery directly from the vSphere UI.

#### Backup and recovery

- Forever full backup at the cost of incremental
- Application consistent backup
- Agentless VM image level backups
- Instant Access to VM images allows for near-instantaneous recovery from a backup
- Granular level recovery for immediate item level restore
- Automated restore rehearsal for validation of disaster recovery readiness

### Microsoft

#### Performance

- Change Block Tracking (CBT) for fast backup and recovery
- Multi-proxy backup for scalability and increased performance
- Support for Hyper-V 2016 Resilient Change Tracking delivers fast backups by protecting only the changed blocks

#### Ease of Administration & Configuration

- Integration with Microsoft System Center Virtual Machine Manager
- Unified management of all Microsoft application backup and recovery tasks

#### Backup and recovery

- Forever full backup
- Seamless protection for Live Migration
- Granular Level Recovery for immediate item level restore

### OpenStack KVM

- CBT for both faster backups and restores
- Integrated with Keystone authentication and deduplication occurs on every instance and volume



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