

EMC AVAMAR VIRTUAL EDITION

Data protection for virtualized environments

With EMC® Avamar Virtual Edition® (AVE) you have powerful data protection, unified management and hypervisor integration. The hypervisor integration allows storage and application administrators to take advantage of self-service data protection while using their native hypervisor interfaces. AVE provides flexible deployment options and can be loaded on a VMware® ESX® Server, a Microsoft® Hyper-V Server, and deployed in? Microsoft Azure. AVE is a software only data protection solution with simple deployment as a customer installable appliance.

AVE will optimize the data protection of your servers and mission critical applications by deduplicating the data at the source. AVE deduplication will reduce network usage by up to 99% and backup storage by up to 30x when deployed with Data Domain. The restore of data is up to 30x faster than traditional image level backups. With AVE you have a data protection solution that is fast to deploy, simplifying the data protection for your virtual environments.

Data Protection for VMware

AVE uses Avamar data protection technology to protect VMware virtual environments. An advantage of AVE is the ability to perform end-point backups, including file systems and mission critical applications residing within remote offices.

Avamar backup to Data Domain brings value through instant access to a virtual machine by booting the VM directly from Data Domain via an NFS datastore. With the instant access feature, there is no restore operation required. With Data Domain Virtual Edition you have a customer-installable software-only data protection solution that scales to 16 TB.

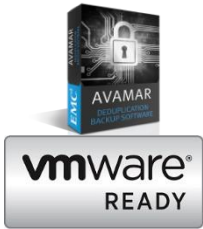
Avamar integration with vRealize Automation (vRA) and vCloud Director (vCD) provide data protection services for public cloud, private cloud, hybrid cloud and born-in-the-cloud. vRealize Automaton Data Protection Extension embeds data protection directly into the VM blueprints. These blueprints ensure that data protection is always applied during the VM provisioning process. vCD Data Protection Extension embeds backup services right into vCloud Director and can be shared and distributed in a multi-tenant model.

Performance

- Change Block Tracking (CBT) for backup and recovery
- High-speed, image-level backup and recovery for bare metal protection of each VM
- Universal proxy load balancing

ESSENTIALS

- 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
- Replication and Encryption: Data is encrypted and deduplicated to secure and minimize network bandwidth consumption
- Granular Level Recovery: Immediate item level recovery with granular level recovery of data and applications
- Data Domain Boost Integration: Provides additional scalability and performance
- Scalable: Scales to 16 TB of protected data and protects both virtual and physical servers when deployed with Data Domain Virtual Edition.
- Deduplication: Up to 99% reduction in network usage and decreased backup times by up to 50%
- Instant Access: Instant recovery of VMs that were backed up to a Data Domain system



Ease of Administration & Configuration

- Automated Proxy management provides end to end intelligent collection, analysis and auto provisioning of proxy servers
- Automated snapshot management provides discovery and cleanup of snapshots

Backup

- Forever full backup at the cost of incremental
- Virtual and physical server protection
- Application consistent backup
- Agentless VM image level backups

Recovery

- Physical to virtual bare-metal restore
- Granular level recovery for immediate item level restore
- Automated restore rehearsal for validation of disaster recovery readiness

Data Protection for Microsoft

AVE provides centralized data protection of your Microsoft private and hosted clouds, including Hyper-V and Azure. It is simple to protect your mission critical applications by leveraging the interfaces that you already use when managing your applications. Self-service data protection empowers application administrators to centrally manage the data protection of their Microsoft applications. Backup administrators are responsible for assigning the appropriate data protection policies using Microsoft System Center Virtual Machine Manager. Policies are enforced when the virtual machines are provisioned.

Performance

- Multi-stream backups with EMC® Data Domain® systems
- Integration with EMC Data Doman Boost™
- Multi-Proxy backup for scalability and increased performance

Ease of Administration & Configuration

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

Backup

- Application consistent backup
- Forever full backup
- Seamless protection for Live Migration

Recovery

- Granular Level Recovery for immediate item level restore
- File recovery from image backup
- Physical to virtual bare metal recovery
- Wizard driven disaster recovery
- Automated restore rehearsal for validation of disaster recovery readiness

Data Protection for Azure

Backup and recovery for VMs running on Azure cloud

You can very easily setup your backup policies using your native interface, and with AVE you never backup the same data twice. Your daily full backup will be completed in a fraction of the time by backing up only unique changed data. Application administrators perform granular-level recovery in one simple step, eliminating the need for the service provider to perform backup and recovery of mission critical applications.



Replicating backup data to the Azure cloud

AVE will automatically replicate the backup data to AVE running on Azure. With a copy of the backup data in Azure, you recover from the backup on Azure with the option of restoring to an alternate location, such as your production site. Your backup within Azure will be secure, and the amount of data transferred over the network is greatly reduced.

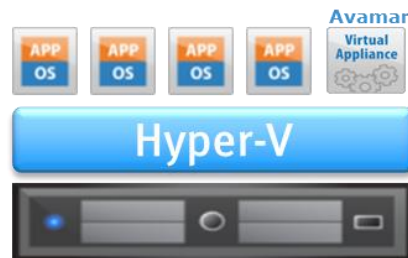
Backup and recovery from on premise to the Azure cloud

AVE will back up the data from your production site into the Azure cloud following the same simple processes as if AVE were to reside within your datacenter. You have the added benefit of off-site data protection with an easy recovery back to the production site or an alternate location.

You can very easily setup your backup policies using your native interface, and with AVE you never backup the same data twice. Your daily full backup will be completed in a fraction of the time by backing up only unique changed data. Application administrators perform granular-level recovery in one simple step, eliminating the need for the service provider to perform backup and recovery of mission critical applications.

Data Protection for Hyper-V

With AVE you can ensure that your backups will be completed within your required backup window and meet your service level agreements. AVE has the capability to protect each VM via an image based backup method. By understanding the virtual hard disk format, the backup application will scan the VM files directly in the Hyper-V file system, processing the data more efficiently than an agent-based method.



Cluster Shared Volumes (CSV) allows multiple nodes to have access to all disks within the clusters. With AVE you can designate multiple proxy node systems for your backup. This brings performance benefits by allowing any host within the cluster to perform a backup.

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