

Continuous Data Protection (CDP) advantages while delivering the most cost-effective Disaster Recovery (DR) for Azure VMware Solution

JetStream DR for AVS provides the optimal performance, ease of deployment and low TCO that makes it the ideal DR solution for Azure VMware Solution, the flexible VMware cloud environment built and managed by Microsoft. JetStream DR for AVS enables Azure to become an ideal target for disaster recovery from either an on-premises data center or from another Azure VMware Solution region. By combining the economics and scalability of Azure Blob Storage with the near-zero RPO (Recovery Point Objective) of CDP, JetStream DR for AVS delivers full disaster recovery and business continuity capability to the Azure VMware Solution cloud.

Key Features

Uses Cost-Effective Azure Blob Storage

All data generated by production VMs is immediately replicated into Azure Blob Storage, providing the most cost-effective and scalable disaster recovery solution to protect VMs in Azure VMware Solution. Even large deployments can take advantage of a single small “pilot-light” cluster deployment instead of needing to scale with additional AVS hosts.

vCenter Integrated DR Management

DR administration and reporting are handled by the existing vCenter management console through the JetStream management server plugin. No third-party cloud or management console is required, simplifying the ongoing operation of JetStream DR for AVS. Real-time statistical data and alert triggers provide a rapid view into the condition of the protected cluster. JetStream DR is also designed to be resilient to any fluctuation or disruption of the network connection to the recovery site and will smoothly continue DR protection when the network is restored. All operations can be accessed through a series of RESTful APIs, so DR management can be integrated into higher-level management solutions.

Scalable Deployment

Use of Azure Blob Storage and the pilot-light cluster for recovery provides the ability to set up a ‘many-to-one’ architecture, where multiple clusters, even those located in different regions or on-premises can all be protected in the same recovery cluster and scaled up during a disaster.

Live Fail-Back

VMs are returned to the protected site (once restored) with minimal interruption to VM operation or protection.

IO Filters for Near-Zero RPO

The VMware IO Filters architecture (VAIO) allows JetStream DR for AVS to capture and continuously replicate data separate from the critical data path to primary storage. With JetStream’s IO Filters implementation, every protected VM sees a near-zero (less than one second) RPO to minimize the risk of data loss. No snapshots or agents are used, so production application performance remains consistently high as well. JetStream DR for AVS is deployed and managed in vSphere through Storage Policy-Based Management (SPBM).

Flexible Recovery Time Objection (RTO)

JetStream DR for AVS provides options for tiering RTO times across the protected VMs and applications based on priority level. Mission-critical applications can have their replicated data continuously rehydrated into the recovery cluster to provide recovery with near-zero RTO, while lower priority application data is rehydrated from Azure Blob Storage on-demand at the time of the disaster event. For larger data sets, storage can be extended using ElasticSAN, Azure NetApp Files or Pure Cloud Block Store. Recovery options are set up ahead of time through runbooks and protection policies.

VMware Ready Certified

IO Filters is VMware’s preferred architecture for replication and JetStream DR for AVS is a fully VMware Ready Certified solution jointly supported by VMware and JetStream. Installation in the protected cluster is handled through a VMware-signed VIB that supports Secure Boot vSphere Hosts.

Benefits

Continuous Data Protection for DR

- Data is replicated to the recovery site continuously while it is being written to local primary storage.
- “Near-Zero” RPO (below one second, not hours).
- No snapshots or agents required.

Cost Efficiency

- All data replicated to Azure Blob Storage until needed.
- Supports small AVS pilot-light cluster.
- AVS resources provisioned on-demand after any disaster occurs.

Compatibility

- Based on VMware IO Filters – VMware Ready Certified.

On Demand Scalability

- Store large amounts of recovery data in scalable Azure Blob Storage.
- Dynamically provision recovery resources in AVS.
- Expand the recovery environment with ElasticSAN, ANF or Pure CBS.

Available through the Azure Marketplace

Manage your JetStream DR subscription license through the Azure Marketplace. Purchase and pay through the Azure Marketplace, together with your Azure Blob Storage account, and your Azure VMware Solution subscription, along with all other Azure enterprise services.

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