

JetStream DR for VMware Overview

Protect VMs with a near-zero RPO & RTO cloud service

JetStream DR is an end-to-end solution for enterprise-grade DR as a cloud service. Enabling data protection and virtual machine recovery, JetStream DR provides the foundation for your business continuity service offering.

Using JetStream DR, you can empower your customers to:

- Replicate their VMs and data to your recovery service in real time, without snapshots, for RPOs of mere seconds.
- Recover and run their VMs on your recovery service with RTOs of a few minutes or less.
- Save money by replicating to a cost-efficient S3 object store, with VM rehydration and recovery only when needed.

The Foundation for My Business Continuity Service

"I have been protecting customers' VMs for 12 years, and I've used pretty much every solution as the data protection space has evolved. This is the first solution I've used that felt like it was fundamentally designed for me to provide my customers real business continuity as a cloud service."

Gary Lamb
Enterprise Networking Solutions, Inc.



Key Features	Description
 <p>VM-Level Protection</p>	<p>JetStream DR is designed for administrators to easily select VMs for protection, and to designate the level of data protection required and VM failover requirements. All standard vSphere cluster functions (vMotion, etc.) are supported in your customer's environment.</p>
 <p>Lightweight, Agentless Solution</p>	<p>Rather than requiring agent software inside protected VMs, JetStream DR captures data through VMware IO Filters ensuring compatibility and security for all VMs. The IO filters are deployed, maintained and managed by vSphere, vCenter and vSphere SPBM.</p>
 <p>Hardware Independent</p>	<p>JetStream DR employs an all-software, hypervisor-level replication technology that can protect VMs running in any type of on-premises infrastructure: SAN, NAS, vSAN, HCI, etc. Your recovery environment can run on any VMware-compatible infrastructure, regardless of your customers' on-premises architectures.</p>
 <p>High Performance</p>	<p>JetStream DR captures data continuously as it's written to storage locally. It doesn't require snapshots or CBT, so in addition to providing near-zero RPO and RTO, your customer's on-premises application performance remains high, even as data is captured and replicated to your recovery service.</p>
 <p>VMware Supported</p>	<p>JetStream DR is integrated with vSphere exclusively through standard vSphere APIs, ensuring full VMware compatibility and support for your customer's on-premises VMware environment. Unlike other cloud DR solutions, the replication software deployed in your customer's data center is certified VMware Ready and listed in the VMware Compatibility Guide.</p>

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Object Store Support

In addition to a warm failover to your VMware environment, JetStream DR also supports real-time data replication into any S3-compatible object store, including AWS S3, as well as commercial object store solutions from vendors including Cloudian, Minio, Western Digital, and others. The same IO Filter software replicates data from the customer's premises, providing near-zero RPO even when recovering VMs from an object store.



Cloud Service Optimized

JetStream DR is designed specifically for datacenter-to-datacenter DR services. The crash-consistent data pipe linking your customer's premises to yours is optimized for high throughput, fault-tolerant data replication across network connections of varying quality, and seamless VM failover from your customer's data center to your recovery site.



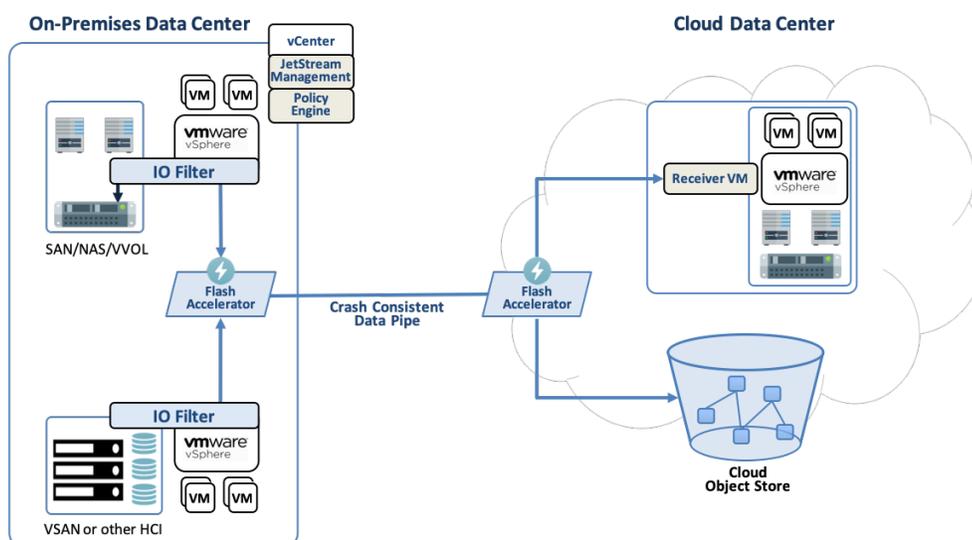
Flash Optimized Data Replication

To maximize application performance at your customer's environment, the replication log is designed for writing to a flash appliance or other flash resource. To optimize replication latency, JetStream DR supports flash-based caching of replicated data in your environment, combining flash performance with cost-effective HDD storage for protected data.



Easy Administration

In your customer's environment, host filter components are installed from a signed VIB. Protection parameters are administered through a vCenter plug-in and the vSphere Web GUI. Once the solution is configured, administrators can initiate VM protection by simply changing its SPBM storage policy to "protected."



OPERATING SYSTEM	STORAGE (ON PREMISES)	MIGRATION NETWORK	DESTINATION (CLOUD)
<ul style="list-style-type: none"> » VMware vSphere 6.0 U2 and U3; vSphere 6.5 and later 	<ul style="list-style-type: none"> » Any SAN, NAS, Virtual SAN or HCI 	<ul style="list-style-type: none"> » Any secure channel like VPN » Latency: on average less than 150ms and 0.1% packet loss » Throughput: sufficient for application generated workload 	<ul style="list-style-type: none"> » All VMware environments » Any S3 compatible object store such as AWS S3 » Commercial object stores including: Cloudian, Minio, Western Digital, and others