

Datrium DRaaS with VMware Cloud on AWS



Cloud-Native, On-Demand Disaster Recovery as a Service

PRODUCT BRIEF

Key Benefits

Failproof Cloud DR With Built-In Cloud Backup for All VMware Workloads

- Protect all your VMware workloads in the cloud and on premises
- Automatically fail over from an SDDC in one AWS AZ to another AZ
- Built-In Cloud Backup automatically runs and stores backups in AWS S3

10x More Cost-Efficient Than a Second DR Site

- In steady-state, pay only for backups on S3
- No ongoing cost for hot standby DR sites
- Just-in-time SDDCs provisioned in VMware Cloud on AWS

Instant RTO for Any VMware Workload

- Achieve instant RTO with zero copy and no rehydration as ESX hosts directly mount a live NFS datastore hosted in AWS
- Access 1 million+ immutable backups, recent or years old, for recovery from ransomware or natural disasters
- Restart 1000s of point-in-time consistent VMs

One-Click Failover and Failback

- Avoid complex VM conversions
- Automatic compliance checks
- Fully automated failback

Operational Consistency and Simplicity

- Consistent vSphere experience everywhere
- SaaS-delivered: no install, no admin
- DRaaS, billing, and support all from Datrium

Datrium Disaster Recovery as a Service (DRaaS) with VMware Cloud on AWS makes DR easy for all VMware workloads with its cloud-native design, built-in backup, instant RTO, and on-demand model. You don't need expensive physical DR sites because you only pay for DR resources when disaster strikes or for testing. It keeps your data safe and secure, and continuous compliance checks allow you to confidently execute failover and failback in the event of a ransomware attack or other disaster.

DRaaS is an easy-to-use SaaS solution that avoids the cost and complexity of traditional DR approaches. It delivers everything you need for failproof on-demand DR to the cloud in one solution with comprehensive support, simplified purchasing, and billing.

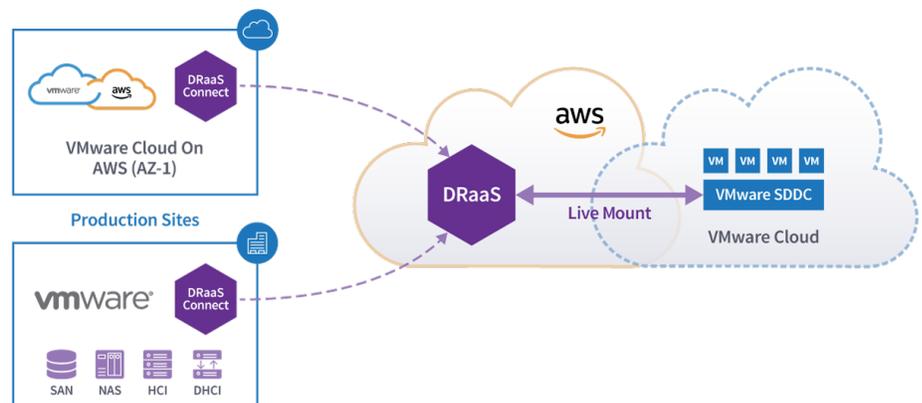


Figure 1 – Datrium DRaaS components and their disaster recovery functions

Key Features

Failproof Cloud DR with Built-In Backup for All VMware Workloads

Get failproof DR with instant RTO for all of your VMware workloads wherever they're running. All your DR plans get continuous compliance checks every 30 minutes, ensuring your DR plan will work when you need it.

• Failproof DR for VMware Workloads Running On-Premises

DRaaS Connect for vSphere On Prem extends Datrium DRaaS to any vSphere on-premises infrastructure, including Datrium DVX, SAN, NAS, and HCI systems. Built-in Cloud Backup enables backups to be created every few minutes, every hour, or every day. Backups are deduplicated, compressed, encrypted, and stored on AWS S3. When disaster strikes, all the backups in S3 are instantly made executable on a live cloud-native NFS datastore mounted by ESX hosts.

- **On-Demand DR for Your Cloud-Based Workloads**

Automatically fail over from an SDDC in one Availability Zone (AZ) to another AZ with DRaaS Connect for VMware Cloud. Snapshots of running VMs in the active AZ are stored in the DRaaS repository on AWS S3. In the event of a disaster, these snapshots can be restarted on ESX hosts in a different AZ with instant RTO, all based on well-defined runbook policies.

10x More Cost-Efficient DR

Get cost-effective backups that are immutable, forever incremental, deduped, and stored efficiently in low-cost S3. Pay for VMware Cloud SDDC only when you actually need it in a failover event. Egress charges are minimized as only the changed and globally deduplicated data is transferred during failback. DRaaS provides DR protection that's 10x more cost-efficient by allowing you to shut down physical DR sites, eliminate power and cooling bills, cut expenses related to standalone backup solutions, and get access to the broadest range of global DR sites.

Instant RTO DR for 1000s of VMs from Immutable Backups

You don't need to rehydrate data from backups before recovering your workloads. All the backups in S3 are instantly made executable on a live cloud-native NFS datastore mounted by ESX hosts with caching on NVMe flash. Instant recovery from older backups is especially useful for ransomware recovery. You can recover thousands of VMs from the same point in time to restart your entire data center with instant RTO, unlike any other DR solution for VMware Cloud on AWS.

Continuous Compliance and Efficient DR

DRaaS automatically checks your DR plan for health and compliance every 30 minutes, so you can be confident your DR is going to work when you need it. Built-in audit reports help you meet your compliance objectives. Runbook automation makes failover and failback easy. Traditional failback from public cloud environments presents technical challenges like brittle VM conversions and high egress charges that Datrium is uniquely suited to solve. DRaaS keeps VMs in their native formats and includes backup that has global data deduplication and tracks data changes. It's easy to fail back quickly from a public cloud DR site with minimal egress bandwidth charges because Datrium optimizes the amount of data that DRaaS moves. That kind of failback operation isn't feasible with other solutions.

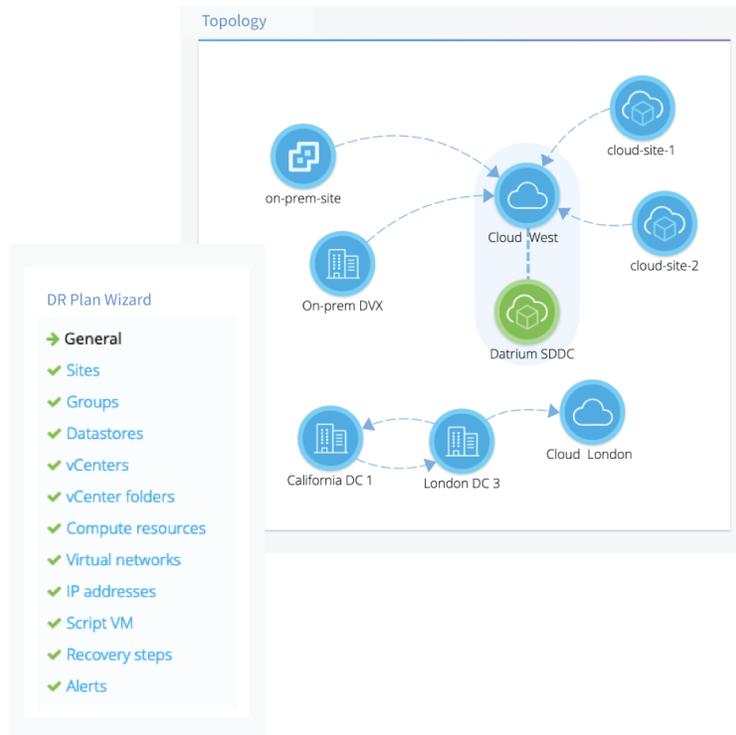


Figure 2 – Views from DRaaS UI showing audit reports and a DR plan that includes a VMware Cloud on AWS SDDC

Consistent Operating Environment On Premises and in the Cloud

Unlike other backup-only or DR solutions that convert VMs into cloud-native formats for backup, DRaaS keeps VMs in their native vSphere format, so you can be sure your vSphere workloads run seamlessly before and after a disaster recovery event. Because DRaaS provisions VMware SDDC in the public cloud, you can use vCenter to manage your cloud DR site just like your primary protected site.

VMware vCenter is an indispensable VM management tool for enterprise vSphere environments. It manages virtualization abstractions such as clusters, resource pools, datastores, virtual switches, port groups, etc., and it provides services such as Sphere HA, FT, vMotion, and DRS, none of which have an equivalent in the public cloud. With DRaaS, VMs retain their native vSphere format, and you get access to these familiar abstractions and management tools following a failover to the cloud. DRaaS with VMware Cloud on AWS provides complementary features for converged cloud backup and DR in a single management tool, for both the primary and DR sites, through vCenter.

DRaaS for Edge Environments

Datrium DRaaS for Edge environments is an easy-to-use, cost-effective, SaaS solution that provides organizations, which are operating remote sites, with data protection and disaster recovery for all VMware workloads. IT teams can create an onsite backup copy of data, and they can recover locally or failover on demand to DRaaS with VMware Cloud on AWS, achieving instant RTO. IT teams can manage and deploy DRaaS for Edge from a central location, which simplifies remote site management. DRaaS for Edge integrates seamlessly with DRaaS, so IT teams can protect all of their VMware workloads using global backup and on-demand DR, regardless of where the data resides. DRaaS for Edge environments will be available in late 2020.

Modern Solution from One Vendor

With Datrium DRaaS, you get a complete solution that delivers comprehensive support, simplified purchasing, and billing. It eliminates the cost and friction caused by multiple point solutions. You get everything you need for failproof on-demand DR to the public cloud in one easy-to-use SaaS solution.