

VMware Disaster Recovery as-a-Service Solutions

Fortify your data, applications and infrastructure with Disaster Recovery as-a-Service (DRaaS)

VMware empowers your business to create and implement a cloud-based DRaaS strategy that enables the protection and full recovery of your mission-critical workloads.

Key benefits

- Implement a comprehensive Disaster Recovery (DR) strategy quickly and efficiently
- Simplify DR operations via cloud
- Establish ongoing processes to validate DR plans and remove configuration drift
- Scale DR across thousands of VMs
- Meet your Recovery Point Objective (RPO) and Recovery Time Objective (RTO)

The threat landscape continues to evolve with ransomware attacks continuing to proliferate. Disaster Recovery (DR) is a critical component to protect your business from security breaches, restore services due to unexpected service outages, and comply with local regulations. However, traditional DR solutions can be complex, unreliable, expensive – and may not scale or provide the required levels of protection that organizations need.

Increasingly, companies are turning to Disaster Recovery as-a-Service (DRaaS) to preserve data availability in the event of ransomware attacks and recover their mission-critical workloads using the cloud as a recovery target. DRaaS relies on the cloud for scale, flexibility, and reliability while eliminating the need for a secondary datacenter location.

VMware DRaaS Solutions and VMware Cloud Universal

VMware offers comprehensive DRaaS solutions, which are eligible for VMware Cloud Universal™. VMware Cloud Universal is a flexible purchasing and consumption program that offers comprehensive solutions for executing your digital and multi-cloud transformation objectives. VMware Cloud Universal combines financial flexibility with VMware's industry-leading on-premises, private, public, and edge cloud solutions. Available VMware DRaaS options for VMware Cloud Universal include:

- **VMware Cloud Disaster Recovery™** combines cost-effective cloud storage with SaaS-based management to deliver IT resiliency at scale through a pay-as-you-need capacity model for VMware Cloud on AWS™ failover capacity.
- **VMware Site Recovery™** protects your mission-critical IT services with hot DRaaS for VMware Cloud on AWS and VMware Cloud on Dell EMC™, which also includes integrated VMware vSphere® Replication™ and VMware Site Recovery Manager™ (SRM)

Why VMware Cloud Disaster Recovery?

Confidently recover from ransomware

- Protect with immutable Virtual Machine (VM) snapshots stored in an air-gapped location
- Recover your data in an on-demand Isolated Recovery Environment (IRE)
- Leverage rapid recovery point iterations with Instant VM Power-On

Optimize Disaster Recovery costs

- Integrate cloud-based Disaster Recovery
- Reduce costs with an up to 60% lower TCO compared to traditional Disaster Recovery solutions
- Pay-as-you-go failover capacity model

Recover at-scale or at a granular level

- Minimize data loss through file-level and folder-level recovery
- Scale data recovery for thousands of VMs quickly
- Sustain operations and applications through supported Scale-Out File Servers

Monitor Disaster Recovery health

- Maintain daily data integrity checks
- Check Disaster Recovery health every 30 minutes



VMware Cloud Disaster Recovery overview

VMware Cloud Disaster Recovery offers on-demand disaster recovery to IT administrators who are responsible for IT infrastructure and services resiliency, and experience traditional disaster recovery solutions as complex, expensive and unreliable. It also helps security and compliance teams ensure operations can resume after a disaster event. Delivered as an integrated software-as-a-service (SaaS) solution with cloud economics, VMware Cloud Disaster Recovery combines cost-efficient cloud storage with simple SaaS-based management for IT resiliency at scale. Customers benefit from consistent, familiar VMware operations across production and disaster recovery sites, a pay-when-you-need-failover capacity model for disaster recovery resources, and instant power-on capabilities for fast recovery after disaster events.

During transient events, such as disaster recovery testing or failover, your staff will not need to learn new operational processes and tools of cloud infrastructure. Current IT teams can manage both the cloud DR site and production sites with VMware vCenter® and retain access to familiar vSphere constructs—such as clusters, resource pools, datastores, virtual switches and port groups—following a failover. The SaaS-based management console simplifies disaster recovery maintenance operations, eliminating the customer burden of lifecycle managing disaster recovery software, and scales up to 1,500 VMs across multiple SDDC clusters. Disaster recovery health checks occur every 30 minutes, increasing the confidence that your disaster recovery plan will work when needed. Audit-ready, built-in, automated audit reports help meet your company's internal policies and regulatory compliance requirements.



VMware Site Recovery overview

VMware Site Recovery is a cost-effective solution that helps organizations overcome the challenges of the high inefficiency costs associated with traditional DR. In addition, organizations can choose to protect their VMware Cloud on AWS SDDCs operating in one AWS Region with a failover target in another AWS Region. The required VMware software for disaster recovery is included in this service and, during normal operations, you need to size your environment based only on storage needs. When a failover is initiated, the disaster recovery target environment could be expanded easily to accommodate all the protected workloads.

VMware Site Recovery enables organizations to create recovery plans that fully automate and orchestrate failovers, allowing IT teams to offload manual tasks during the recovery process. At the heart of the solution is VMware Site Recovery Manager™ (SRM). This proven disaster recovery tool, which is included in the VMware Site Recovery service, helps organizations reduce risks during critical times when their main data center is down.

Why VMware DRaaS with VMware Cloud Universal?

- **Flexible, full-service Disaster Recovery:** Delivers the full-scale SaaS experience with intuitive workflow management and is interoperable with any VMware vSphere service
- **Operational consistency:** Protects the entire IT operating control plane end-to-end across data, applications and infrastructure while leveraging familiar VMware operations and unified monitoring and administration
- **Cloud-driven execution:** Offers fast and simple deployment with a complete cloud-scale failover and redundancy that is optimized with VMware Cloud on AWS™
- **Economic value:** Operates at a lower Total Cost of Ownership (TCO) than traditional DR with an optional VMware Cloud Disaster Recovery Paid Pilot Program available

VMware Site Recovery has extensive built-in testing capabilities. Site Recovery enables users to perform frequent non-disruptive disaster recovery tests that automatically generate detailed reports, reducing the exposure to disasters. The VMware Site Recovery disaster recovery target on VMware Cloud on AWS is fully maintained and supported by VMware, relieving organizations of the need to set up a secure environment, maintain hardware, and manage the lifecycle of their infrastructure stack. VMware Cloud on AWS is operated and supported by highly trained VMware experts, allowing your IT teams to focus on strategic initiatives and reduce threat exposure.

Understanding VMware Cloud DRaaS options with VMware Cloud Universal

VMware Cloud Disaster Recovery and VMware Site Recovery can be used concurrently in your environment to protect different IT services. Table 1 provides additional insight into these DRaaS solutions available through VMware Cloud Universal.

	VMware Cloud Disaster Recovery (VCDR)	VMware Site Recovery
Topologies Supported	On-premises to Cloud Cloud to Cloud	On-premises to Cloud Cloud to Cloud
VMware Cloud Universal Availability Options	VMware Cloud on AWS	VMware Cloud on AWS VMware Cloud on Dell EMC™
Recovery Point Objective (RPO)	30 min	~ 10 min
Failover Capacity Provisioning	On-demand/Pilot Light. Only provision failover capacity when needed	Full failover capacity in the cloud must be maintained at all times
FedRAMP High Certified	No	Yes

Table 1: High-level comparison between VMware Cloud Disaster Recovery and VMware Site Recovery

Learn more

[VMware Disaster Recovery Solutions](#)

[VMware Cloud Universal](#)

VMware Cloud DR benefits and use cases with VMCU

VMware Cloud DRaaS solutions offer on-demand ransomware and disaster recovery, delivered as an easy-to-use SaaS solution, with cloud economics. They combine cost-efficient cloud storage with simple SaaS-based management for IT resiliency at scale. Customers benefit from consistent VMware operations across production and disaster recovery sites and a 'pay when you need' failover capacity model for disaster recovery resources. Table 2 highlights common disaster recovery use cases the benefits that the VMware DRaaS portfolio offers.

Use case	VMware Cloud Disaster Recovery as-a-Service benefits
Ransomware Recovery	<ul style="list-style-type: none"> Immutable cloud-based recovery points ranging from hours to months old, are stored and cannot be altered by malware within in VMware Cloud Disaster Recovery Scale Out File System in case of an attack, as they can't be altered by malware Non-disruptive testing simplifies operations and drives DR readiness with continuous health checks, driving ease of use and confidence in the recovery Rapid recovery point validations can be run non-disruptively by leveraging Live Mount, a feature that allows you to instantly power on your VMs in the cloud
Disaster Recovery Modernization	<ul style="list-style-type: none"> Pervasive storage in the Cloud to reduce the risk of running out of storage space in their secondary data center or co-location, with an up to 60% TCO reduction when combining Cloud capabilities and on-demand provisioning Utilize consistent VMware tools across the IT environment to reduce reskilling needs and accelerate DRaaS deployments
Security and Compliance	<ul style="list-style-type: none"> Mitigate risks by simplifying financial management, strengthening security, and automating governance across data, applications and infrastructure Comply with internal policies and regulatory requirements with VMware DRaaS embedded automated audit reporting capabilities
Flexibility across On-Premises to Cloud, and Cloud to Cloud	<ul style="list-style-type: none"> Drive rapid business transformation while delivering enterprise-level resiliency, security, and threat protection Interoperable disaster recovery across on-premises to or across qualifying VMware DRaaS cloud environments at a pace that matches the needs of the business

Table 2: VMware DRaaS Benefits and Use Cases with VMware Cloud Universal