VMware Cloud Foundation

Implementing a Comprehensive Disaster Recovery Use Case

AT-A-GLANCE

VMware Cloud Foundation™ offers a comprehensive solution for cloud infrastructure hardening through integrated compute, storage, network, and cloud management into a single software-defined stack.

VMware Live Recovery™ delivers a unified management experience for both data and site disaster recovery, as well as cyber recovery for your enterprise's private cloud.

This integrated approach simplifies disaster recovery (DR) management, reduces costs, and ensures business continuity and resilience in the face of any disaster.

In today's dynamic IT landscape, disaster recovery (DR) is no longer a luxury, but a necessity. Downtime can result in significant financial losses, reputational damage, and compliance issues. For businesses running private clouds, ensuring the resilience and availability of critical applications and data is paramount. VMware Cloud Foundation (VCF), paired with an advanced service. VMware Live Recovery (VLR) offers a comprehensive DR platform that provides robust protection and rapid recovery capabilities.

Disasters Happen. It's not *if*, it's *when*.

To protect your business-critical applications and data, you need to prepare for and recover from these events. VCF provides a hardened infrastructure built to protect from a variety of damaging factors. And in the event that disaster strikes, VMware Live Recovery provides a flexible and scalable solution to manage disaster events, enabling rapid recovery and business continuity.

Cyber-Resilient Private Cloud
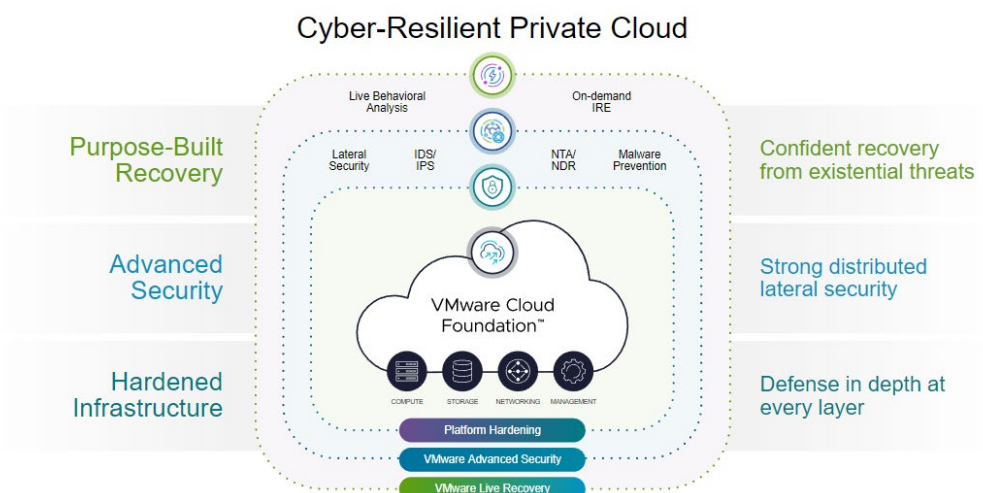
Benefits of Integrated Disaster Recovery

Reduced Complexity

A unified platform for managing all aspects of DR simplifies operations and reduces administrative overhead.

Enhanced Security

VLR's cyber recovery features provide robust protection against cyberattacks and ransomware threats.

Improved RTOs

Automated workflows and cloud-based recovery options enable faster recovery times, minimizing downtime and business disruption.

Cost Optimization

Flexible licensing and cloud economics help reduce DR costs and improve ROI.

Increased Confidence

With VCF and VLR, businesses can have greater confidence in their ability to recover from disasters and maintain business operations.

VMware Cloud Foundation (VCF)

VMware Cloud Foundation is a unified platform that integrates compute, storage, networking, and cloud management into a single, software-defined stack. This integrated approach simplifies deployment, management, and lifecycle operations, reducing complexity and increasing efficiency.

Key DR Features of VCF

- **vSphere Replication:** Provides VM-level replication for data redundancy and availability. Options include array-based replication, vSphere Replication, and vVols replication. Multiple point-in-time snapshots further enhance data protection.
- **vSAN:** Software-defined storage that offers high availability and data protection through features like mirroring, erasure coding, stretched clusters, and VSAN-to-VSAN replication.
- **NSX:** Network virtualization and security platform that enables micro-segmentation and DR networking, enhancing security and recovery capabilities.

VMware Live Recovery (VLR)

VLR is an add-on solution to VCF that enhances DR capabilities with ransomware protection and cyber recovery features. It provides unified management for traditional DR and cyber recovery, streamlining operations and improving efficiency.

Main Components of VLR

Site Recovery:	Cyber Recovery:
Provides automated DR workflow orchestration for virtualized site failover and failback. It integrates with vSphere Replication and allows for customizable recovery plans to meet specific RTO/RPO requirements.	Offers powerful and secure remediation and recovery capabilities against cyberattacks. It includes an isolated recovery environment (IRE) and live behavioral analysis to identify and neutralize threats.

Key Disaster Recovery Features of VLR

- **Unified Protection:** A single console for managing ransomware and DR across VMware Cloud, integrated in version 9.x.
- **Simplified Consumption:** Flexible licensing across use cases and clouds.
- **Cloud-Based Ransomware Recovery:** Managed Ransomware Recovery as-a-Service solution.
- **Guided Workflow Automation:** Step-by-step workflow for recovery operations.
- **Support for Multiple Cloud File Systems:** Improved performance and network management.

vmware®
by **Broadcom**

> **"We now have the ability to move critical workloads across data center sites based on any contingency"**
>
> - C. K. Prasad
>   Regional GM & Head - IT
>   RailTel Corporation

Why VMware Pro Cloud Services?

Implement a comprehensive DR strategy quickly and efficiently

Simplify and streamline DR operations

Establish ongoing processes to validate DR plans and remove configuration drift

Meet your RPO and RTO goals

Minimize risk

How to get started

VMware Pro Cloud Services™ can help you create and implement a DR strategy leveraging VLR that enables protection and recovery of your workloads on VCF. Delivered by a cross-functional team of VMware technology experts, we use a proven, scalable and repeatable methodology to help ensure the implementation is effective and successful.

VMware Pro Cloud Services to Implement Disaster Recovery Key Activities:

- **Develop DR strategy:** Align with business goals.
- **Discover environments:** Map dependencies, define protection groups.
- **Create DR plan:** Define scope, recovery steps, sequence.
- **Design DR solution:** Configure site resources, replication timing, snapshot frequency.
- **Test and Validate failover:** Refine plan through testing.
- **Provide Knowledge transfer:** Enable effective DR operations and management.

Integrated Disaster Recovery

VMware Cloud Foundation, with the additional benefits of its add-on solution **VMware Live Recovery**, provides a comprehensive DR solution that ensures business continuity, data protection, simplified management, and cost optimization.

By integrating compute, storage, networking, and cloud management with advanced cyber recovery and ransomware protection features, VCF and VLR empower businesses to confidently address the challenges of modern IT environments and maintain resilience in the face of disruptions.

To learn more about how VMware Cloud Foundation and VMware Live Recovery can help you protect your business, visit **https://www.vmware.com/** or contact your VMware representative

vmware®
by **Broadcom**