Run and manage traditional workloads with VMware Cloud Foundation

Trust the industry-leading platform for your business-critical apps

At a glance

VMware Cloud Foundation™ (VCF) is a private cloud platform that empowers organizations to modernize and optimize all their business-critical applications. It delivers exceptional performance, scalability, availability, security and cost-effectiveness while enabling automated deployment, monitoring and management of workloads. Additionally, VCF provides comprehensive features to protect workloads and facilitate seamless migration to optimal locations, ensuring uninterrupted operation.

"The most significant benefit of VMware is scalability and the speed and agility to provision resources. It also provides redundancy and recovery options that are built into the software that allow us to withstand component failures and recover faster when something happens."

Professional services firm, United States

In today's dynamic business landscape, organizations rely heavily on traditional business-critical workloads like Enterprise Resource Planning (ERP) systems, databases, and virtual desktop infrastructure (VDI) to drive operations, manage data, and empower employees. These foundational technologies are the backbone of core business processes, supporting everything from financial transactions and supply chain management to customer relationship management and employee productivity. Because these mission-critical workloads directly impact business continuity, customer satisfaction, and overall success, ensuring that they run reliably, securely and efficiently is of paramount importance. However, this is easier said than done.

Managing business-critical workloads presents significant challenges

You need a robust IT infrastructure that can help you do the following:

- Deliver optimal performance, availability, and the ability to scale resources on demand.
- Protect sensitive data and ensure compliance with regulatory requirements.
- Manage complex applications that require deep integration with various systems and infrastructure components.

The solution: VMware Cloud Foundation

VMware Cloud Foundation (VCF) is a comprehensive private cloud platform that delivers virtual infrastructure with integrated, enterprise-class compute, networking, storage, management and security, enabling your organization to deploy, run, monitor, protect and migrate most business-critical apps. Its automation capabilities streamline deployment, while its unified architecture ensures consistency across environments. The platform optimizes resource utilization, prioritizes security at every layer, offers high availability, and provides built-in resilience for critical apps. It facilitates workload mobility through standardization and migration assistance, and supports the full app lifecycle at every step, enabling your organization to confidently manage enterprise workloads. With the unified approach of VCF, your IT teams can respond swiftly to changing business needs and help drive your organization forward.

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Key benefits

Performance and scalability
VMware virtualization technology enables you to easily respond to evolving business needs with on-demand resource scaling, ensuring apps handle surges while maintaining optimal performance.

Availability and resiliency
Built-in redundancy and comprehensive disaster recovery features help safeguard apps against downtime and data loss, ensuring business continuity.

Security and privacy
Protect apps and data while ensuring regulatory compliance with advanced security features such as identity federation, data-at-rest and data-in-transit encryption, and more.

Cost-effectiveness
Streamline infrastructure management and reduce operational overhead with centralized control and automation, lowering TCO, optimizing IT budgets, and maximizing value from existing apps.

"We get scalability and speed of deployment with VMware. We can deploy thousands of VMs in hours and deploy applications over the weekend with thousands of servers ... It's about horizontal and vertical scaling: We can deploy more and address sizing."

Insurance company,
United States

Here are some examples of what VCF can help you do.

- **Deploy enterprise workloads faster** – VCF uses automation to dramatically simplify enterprise app deployment. It provides templates that define the entire process—including provisioning, configuration and deployment—along with a self-service catalog for user requests that integrates with DevOps tools to ensure seamless workflows. These and other features combine to enable automated, efficient app deployments within a governed environment for your organization.

- **Streamline workload management** – VCF enhances agility, efficiency and performance for both traditional and modern apps. It provides a unified platform for simplified deployment and management, standardized toolsets across environments, and software-defined technologies for predictable performance. In addition, VCF optimizes resource utilization, offers consistent operations across platforms, and prioritizes data security with robust measures throughout the stack. With flexible deployment models, VCF provides a secure, high-performing platform for your organization's apps and data services.

- **Maintain app functionality** – VCF monitors mission-critical apps for performance, availability, and end-user experience to ensure proper functionality. It offers multiple monitoring approaches to meet your organization's unique requirements, including service discovery, agent-based monitoring (curated and open-source Telegraf agents), and third-party integrations with existing application performance management (APM) systems.

- **Enhance security and resiliency** – VCF runs enterprise apps with high availability and resiliency, using proven technology to keep apps and data secure. It automatically migrates apps from resource-constrained environments to ensure responsiveness, while VMware vSphere® HA automates recovery from local failures without manual intervention. For site-level protection of critical apps and data, VCF enables confident preparation, testing and recovery from attacks or environmental catastrophes. What's more, VMware Live Cyber Recovery offers a flexible, scalable cloud-based solution for managing recovery, allowing your organization to quickly recover from ransomware attacks if needed.

- **Simplify app migrations** – Changing business requirements and unforeseen situations often necessitate moving application workloads between platforms. This may involve migrating to a cloud environment, consolidating data centers after a merger, relocating due to lease expiration, moving to a public cloud, or repatriating for compliance or control. App migration is complex, but VCF simplifies it by creating a common app platform across locations, and VMware Professional Services can assist your organization with discovery, strategy, planning and execution to ensure successful migrations.

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Helpful resources

VCF [website](#)

VCF [datasheet](#)

Private Cloud Modernization Program [solution brief](#)

VCF TCO [white paper](#) and [infographic](#)

VCF [technical documentation](#)

VCF [Getting Started Hands on Lab](#) and [HoL catalog](#)

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Get started

Learn more about how [VCF](#) can help you deploy, run, monitor, protect and migrate your business-critical apps. Want help in your cloud journey? Our [Private Cloud Modernization Program](#) is designed to guide you through every step, no matter where you are in the process. Please contact your Broadcom representative to learn more, and start your journey toward a future-proof IT infrastructure.