

VMware Cloud Foundation (VCF)

Modernize your private cloud infrastructure

VMware Cloud Foundation is revolutionizing the way companies operate their IT infrastructure. As a private cloud software stack, VCF combines leading VMware technologies into a single, seamlessly integrated solution. VCF also supports migrations from a public cloud operating model back to an on-premises, sovereign platform, without having to sacrifice the operational and self-service benefits of a public cloud.

In an increasingly digital business world, companies need an IT infrastructure that is agile, reliable, and scalable. VMware Cloud Foundation offers precisely this combination by integrating vSphere (compute), vSAN (storage), NSX (networking), VCF Operations and VCF Automation into a single, fully automated platform. This solution enables companies to modernize their infrastructure, increase the productivity of their development teams, and simultaneously ensure maximum reliability and IT security.

Core Components of the Platform

The architecture of VMware Cloud Foundation is based on the Infrastructure Stack, which combines proven VMware technologies for virtualization and computing (vSphere), storage (vSAN), and networking (NSX) into a single platform. This technical integration is supported by VCF Operations Fleet Management, which ensures full automation of installation, ope-

ration, and lifecycle management. This systematically optimizes deployment, configuration, and update processes and increases operational efficiency.

The platform's functionality is extended by VCF Automation Orchestration, which provides comprehensive operations, automation, and analytics capabilities for the entire infrastructure platform. As an integral component, the VMware vSphere Kubernetes Service enables organizations to run and manage modern container-based applications alongside traditional VM workloads within a unified, centrally managed infrastructure environment.

Advanced Services for Specific Requirements

VMware Cloud Foundation provides access to a comprehensive portfolio of advanced services that optimize the platform for specific use cases. These include VMware Private AI for secure AI deployments, enhanced ransomware recovery capabilities, advanced security services, and specialized application platforms that can be added as needed.

Three Pillars of Modernization

VMware Cloud Foundation supports businesses in their digital transformation through three fundamental modernization approaches that are interconnected and together enable comprehensive IT modernization.

1. Infrastructure Modernization

- Building and deploying a modern private cloud infrastructure on-premises
- Optimizing infrastructure and operations through a cloud operating model
- Extending to edge, public, and sovereign clouds

2. Application Modernization

- Self-service infrastructure for development teams
- Support for Kubernetes and modern applications
- Private AI applications with full data control

3. Security Modernization

- Strengthening compliance and infrastructure security
- Advanced security features with microsegmentation
- Ransomware protection and disaster recovery

Seamless Migration of Existing Environments

A key benefit for existing VMware customers is the ability to seamlessly import their current environments into VMware Cloud Foundation. This migration path enables organizations to immediately benefit from centralized management, advanced automation capabilities and full lifecycle management without interrupting existing workloads or having to perform complex reinstallations.

Medialine as Your VMware Transformation Partner

As a certified VMware partner with many years of expertise, we guide you every step of the way through your private cloud transformation. Our experienced team of experts first conducts a comprehensive assessment of your current IT landscape and develops a customized migration strategy that takes your specific business requirements into account.

Start your private cloud transformation now and schedule a consultation at sales@medialine.com – together, we'll develop your personalized roadmap to a modern, agile IT infrastructure!

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