

ACCELERATE

VMware Cloud Foundation™

Turbocharge Your Journey to the Hybrid Cloud

THE WWT & VMWARE PARTNERSHIP

WWT and VMware work together to help you accelerate your digital transformation journey. By combining WWT's IT consulting, solutions and other services with VMware's technology platforms, we develop the flexible, scalable, and secure multi-cloud solutions you need to achieve your business ambitions.

Fueled by WWT's proven approach and powerful infrastructure, our experts help you discover, evaluate, architect and implement advanced technology lab testing in our [Advanced Technology Center](#), and deploy rapidly through our global integration centers. Together, we help you make better decisions fast and implement them even faster.

What's your destination?

LEARN MORE

Visit wwt.com/destination-transformation today and register to get exclusive access to our virtual suite of free, premium resources to help you on your way.

Organizations of all kinds are under pressure to innovate at an ever-faster pace. To keep up, many have embraced a more agile, service-oriented, hybrid cloud IT model. They are integrating disconnected environments into a single software-defined data center (SDDC) that spans on-premise, private and public clouds. By doing so, they are accelerating innovation by delivering critical services—from compute and network to storage and security—that are at once dynamic, agile, available, and programmatic.

The advantages of this model are so great that it is quickly becoming “table stakes”—a must-have to remain competitive. Yet many organizations face significant challenges in their journey to the hybrid cloud:

- Reining in public cloud sprawl and shadow IT
- Avoiding vendor or cloud lock-in, which can lead to higher costs and risk
- Operational complexity of managing and controlling diverse infrastructure
- The risk of potential cyber security threats
- Controlling costs while meeting service-level agreements for mission-critical apps

The VMware Cloud Foundation

VMware Cloud Foundation is engineered from the ground up to speed and simplify the creation of integrated hybrid clouds. Cloud Foundation provides a comprehensive set of compute, storage, network, security and cloud management resources to run enterprise apps—both traditional and containerized. You can choose to do so in both private and/or public environments. And you significantly simplify operations with built-in automated lifecycle management.

To make this possible, Cloud Foundation is built on VMware's market-leading server virtualization platform, VMware vSphere®. Cloud Foundation takes this platform to the next level by extending the core hypervisor with integrated software-defined storage, network and security capabilities—all of which can be consumed flexibly on premises or run as a service in the public cloud.

As result, you can create a hybrid cloud platform that spans private and public environments, thanks to integrated cloud management capabilities. And with a consistent operational model based on well-known vSphere tools and processes, you can run applications anywhere you choose, without the complexity of application re-writing. (See Figure 1.)

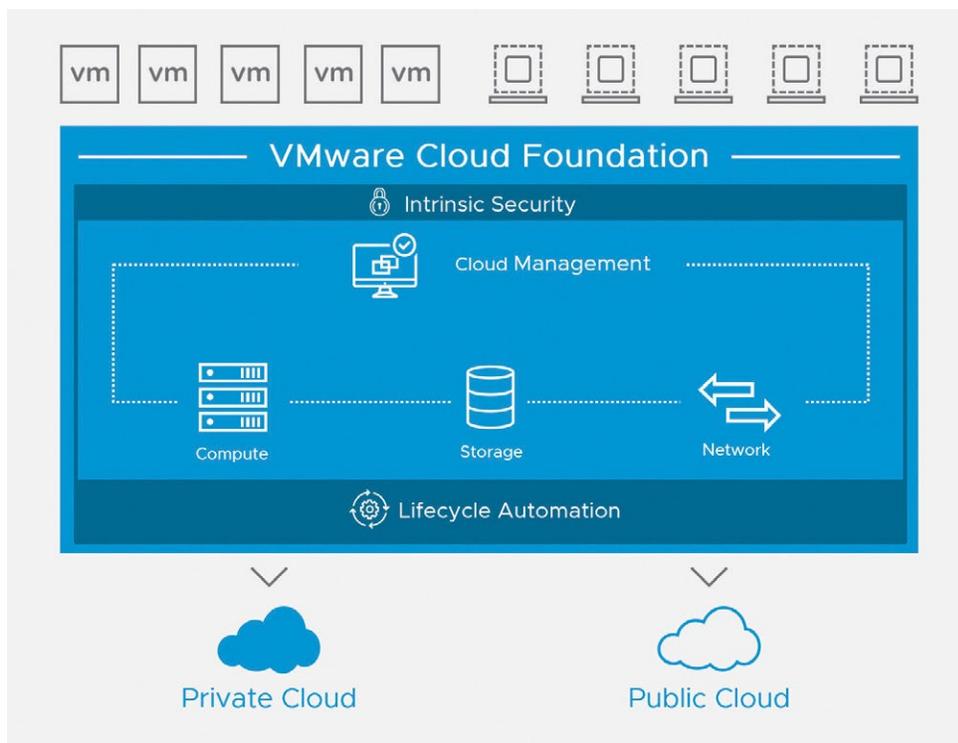


Figure 1: Overview of VMware Cloud Foundation

Key Features & Capabilities

Natively Integrated Software-Defined Stack

Cloud Foundation is engineered to bring together the entire software-defined stack with guaranteed interoperability, so you don't have to manage complex interoperability matrixes.

Enterprise-Grade Services

Cloud Foundation is based on market-leading VMware technologies that delivers enterprise-ready services for both traditional and containerized apps, including: VMware vSphere (compute), VMware vSAN (storage), VMware NSX® (networking and security), and vRealize® Suite (cloud management).

Storage Elasticity and High Performance

Cloud Foundation is built on VMware's leading hyperconverged architecture (VMware vSAN™), which combines all-flash performance and enterprise-class services, including deduplication, compression and erasure coding. The result: elastic storage and drastically simplifying storage management.

Self-Driving Operations

To help you plan, manage and scale everything from applications to infrastructure, Cloud Foundation enables self-driving operations with tools such as Realize Operations™ and vRealize Log Insight™). Users can perform application-aware monitoring and troubleshooting, along with automated proactive workloads management, balancing and remediation.

Self-Service Automation

Cloud Foundation delivers automation of IT service provisioning and day 2 operational capabilities across a hybrid cloud, thanks to VMware vRealize Automation™. You can model a complete infrastructure stack in the form of blueprints (templates) that bind compute, storage, networking and security resources. These blueprints embed both automation and policy, and when executed, they automatically orchestrate the provisioning and lifecycle of all the components in the blueprint—and simultaneously enforce access and security.

Built-in Intrinsic Security

Cloud Foundation delivers end-to-end security for all applications by delivering network-level micro-segmentation, distributed firewalls and VPN, compute-level encryption for VM, hypervisor and vMotion®, and storage-agnostic encryption of data at rest.

Automated Lifecycle Management

Cloud Foundation delivers simple management of your environment with built-in automation of day 0 to day 2 operations of the software platform.

- Rapid deployment - Automate the bring-up process of the entire software platform, including deployment of infrastructure VMs, creation of the management cluster, configuration of storage, cluster creation and provisioning.
- Simplified patching and upgrades - Simplify and accelerate the process of patching/ upgrading the software platform (including VMware vCenter Server®). Give cloud admins the flexibility to choose the timing and scope of updates.
- Infrastructure cluster provisioning - Gain on-demand provisioning of isolated infrastructure clusters to enable workload separation.

WHY WWT FOR VMWARE SOLUTIONS

Our unique expertise in on-prem, private cloud, public and hybrid cloud solutions allows us to advise and execute at every step of your organization's cloud journey. Our highly trained and certified practitioners in VMware products will work with every level of your organization – from C-level to engineering – to scale and extend your businesses to the public cloud, while delivering a consistent experience.

ASK ABOUT OUR APPLICATION SERVICES

Our [Application Services](#) team can provide overview sessions and technical assessments with key stakeholders to focus on your existing strategy. Additionally, we can lead strategy development by partnering with you to develop specific application architectures and processes for cloud initiatives. This includes advising on VMware technologies, processes, public cloud providers and market trends.

Main Use Cases

Cloud Infrastructure

With Cloud Foundation, you can run a fully virtualized infrastructure. Cloud administrators can expand and contract the underlying infrastructure to meet their changing business needs. And lines of business have the flexibility to deploy a wide variety of operating systems and application stacks within the tenant VMs, thanks to a market-leading virtualization platform,

IT Automation

By integrating cloud management services, you can automate the infrastructure and application delivery with self-service capabilities—plus day 2 operational capabilities across private and public cloud. Cloud Foundation provides performance management, capacity optimization, and real-time log analytics. IT automation accelerates the delivery and ongoing management of personalized, business-relevant infrastructure, application and custom services—and simultaneously improves overall IT efficiency. And with policy-based governance and logical application modeling, you can deliver infrastructure services at the right size and service level for the task.

Hybrid Cloud

Cloud Foundation is the only solution in the market that gives you the flexibility to run the same platform on premises and as a service through a public cloud provider. As a result, you can build a true hybrid cloud with common infrastructure and consistent operational model. That means you can connect on- and off-premises data centers to make them compatible, stretched and distributed.

Virtual Desktop

Cloud Foundation for VMware Horizon® delivers a complete solution for VDI deployments at scale. By simplifying the planning and design of a VDI environment based on VMware Horizon, VDI deployments become faster and more secure.

Deployment Options

VMware Cloud Foundation software can be consumed in three ways:

- Software deployment – on certified vSAN ReadyNodes and networking switches. To learn more, visit [VMware Compatibility Guide](#).
- Integrated System – Cloud Foundation software pre-installed at the factory, available from these OEM vendors: Dell EMC, Fujitsu, Hitachi Vantara, HPE and QCT.
- As a Service from the Public Cloud – VMware Cloud on AWS or VMware Cloud Providers: IBM Cloud, OVH, Rackspace, and CenturyLink.