

# VMWARE CLOUD FOUNDATION

## Unified SDDC Platform for the Hybrid Cloud

### AT A GLANCE

VMware Cloud Foundation™ is VMware’s unified Software-Defined Data Center (SDDC) platform for the private and public cloud. It brings together VMware’s vSphere®, Virtual SAN™ and NSX® into a natively integrated stack, delivering enterprise-ready cloud infrastructure with unique automation and management capabilities for a consistent operational experience across clouds.

### KEY BENEFITS

VMware Cloud Foundation drastically simplifies the path to the hybrid cloud, while increasing admin productivity and reducing overall TCO. Customers who deploy VMware Cloud Foundation gain the following key benefits:

- Up to 6-8x faster time to market by eliminating complex processes around system design, testing, bring-up and configuration
- Increases admin productivity by up to 2x by automating Day 2 operational tasks such as patching, updates and monitoring
- Reduces overall TCO of private cloud deployments by up to 30-40%
- Eliminates hardware costs when consumed as a service on the public cloud

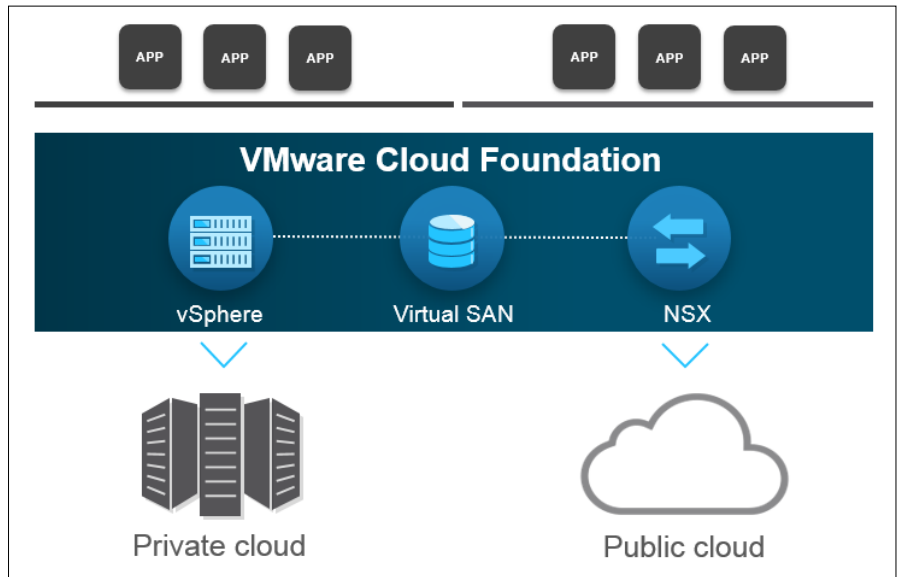


Figure 1: VMware Cloud Foundation Software Stack

### What is VMware Cloud Foundation?

VMware Cloud Foundation is VMware’s unified SDDC platform for the hybrid cloud. Based on VMware’s compute, storage and network virtualization, it delivers a natively integrated software stack that can be used on-premises for private cloud deployment or run as a service from the public cloud with consistent and simple operations.

The core components of VMware Cloud Foundation are VMware vSphere, Virtual SAN and NSX. VMware Cloud Foundation also comes with VMware SDDC Manager that automates the entire system lifecycle and simplifies software operations. In addition, it can be further integrated with VMware vRealize® Suite, VMware Horizon® and VMware Integrated OpenStack.

### What is Unique?

**Natively Integrated Software-defined Stack.** VMware Cloud Foundation integrates compute, storage, and networking into a single layer of software, ensuring full interoperability of the entire software stack to deliver the easiest path to deploy a virtualized infrastructure for a SDDC.

**Next Generation Hyper-convergence.** VMware Cloud Foundation takes hyper-convergence to the next level by extending the convergence of compute and storage by including network virtualization with VMware NSX. This allows for simpler network management and elastic scalability at data-center scale.

**Run as a Service from the Public Cloud.** VMware Cloud Foundation can be run as a service from leading cloud service providers, establishing a common operational model between private and public clouds, that leverages existing administration skillsets, tools, and processes.

**Automated Lifecycle Management.** VMware Cloud Foundation comes with VMware SDDC Manager that radically simplifies the day 0 to day 2 operations of the entire software stack, automating deployment, configuration, patching and upgrading processes.

## Key Features and Capabilities

**Enterprise-Class Capabilities:** VMware Cloud Foundation delivers complete and advanced enterprise functionality based on VMware's market leading solutions.

- **Compute Virtualization:** With vSphere, VMware Cloud Foundation empowers users to virtualize any application with confidence, delivering a highly available, resilient, on-demand Infrastructure that is ideal for any cloud environment.
- **Storage Virtualization:** VMware Cloud Foundation supports the latest Virtual SAN 6.2 with all-flash performance and enterprise-class storage services including deduplication, compression and erasure coding. Virtual SAN delivers elastic storage scalability and significantly simplifies storage management.
- **Network Virtualization:** Through VMware NSX, VMware Cloud Foundation decouples network management from physical switches, delivering a more agile operational model and enabling higher levels of security through micro-segmentation.

**Automated lifecycle management:** VMware Cloud Foundation includes VMware SDDC Manager, a new tool for the cloud operator to automate Day 0 to Day 2 workflows of the entire software stack.

- **Deployment:** SDDC Manager shortens the deployment cycle of the stack from weeks to hours by automating the installation of the software, creation of management clusters, and the deployment of infrastructure VMs.
- **Configuration:** SDDC Manager automates the configuration of the following elements: physical networking, VLANs, storage, etc.
- **Patching and upgrades:** SDDC Manager enables a one click patching/upgrading process of the complete stack (including VMware vCenter Server®). Cloud admins have the flexibility to choose the timing and scope of the updates.

**Flexible deployment choice:** Customers can flexibly deploy VMware Cloud Foundation on-premises across multiple pre-qualified hardware partners including QCT, Dell, VCE and HP or as a service through VMware's public cloud partners.

## Starting Use Cases

**Virtual Infrastructure:** Leverage the high performance, availability, and scalability of VMware's SDDC to run any mission critical application such as databases, Web apps, VDI, etc.

**Virtual Desktop Infrastructure:** Provides the foundation to run virtual or remote desktop infrastructure and applications. If deployed with VMware Horizon, VMware Cloud Foundation will further extend the lifecycle automation of the software with the SDDC Manager.

#### LEARN MORE

Visit <http://www.vmware.com/products/cloud-foundation>.

**Private Cloud:** Deploy with a cloud management platform for full self service capabilities to build a complete private cloud. If used in conjunction with vRealize Suite, VMware Cloud Foundation will further extend the lifecycle automation of the software with the SDDC Manager.

#### Deployment Options

VMware Cloud Foundation software can be consumed in three ways:

- **Ready Systems:** Pre-qualified VSAN Ready Nodes and networking switches. To learn more about our qualified hardware partners, please visit the VMware Cloud Foundation product page.
- **Integrated Systems:** VMware Cloud Foundation software stack pre-installed and integrated on qualified hardware (e.g., VCE vXRack 1000 SDDC).
- **As a Service from the Public Cloud:** Run VMware Cloud Foundation as a service, managed by public cloud providers.

