

# VMware Cloud Foundation

## Small-Scale Deployment (4 Host)

### At a glance

The VMware Cloud Foundation Small-Scale Deployment service delivers a unified software-defined data center (SDDC) platform. Based on VMware compute, storage, and network virtualization, this service delivers a natively integrated software stack that can be used on-premises for a private cloud deployment, with consistent and simple operations.

### Key benefits

- Reduced cost because this is a remotely delivered service
- Automated deployment of a hyperconverged datacenter platform using VMware Cloud Builder
- Enablement of VMware vSAN for hyperconverged storage infrastructure for the environment.
- Configuration of SDDC Manager for simplification of future deployment, lifecycle management, and security operations.

### SKU

VA-PS-VCF-SSDPY-4-C

### Service overview

The VMware Cloud Foundation™ Small Scale Deployment (4 Host) service is a remotely delivered engagement that provides a foundational deployment of VMware Cloud Foundation. A skilled VMware resource remotely assists the customer prepare and deploy VMware Cloud Foundation in the environment using the capabilities provided by VMware Cloud Builder™.

VMware will provide the following services delivered remotely:

- Deploy a hyper-converged data center platform with VMware Cloud Foundation

This includes the following:

- Checking and remediation of the mandatory hardware and software prerequisites as described in the planning and preparation guide for the deployment of VMware Cloud Foundation™.
- Initial deployment of the VMware ESXi™ hosts for the installation of Cloud Foundation. In Cloud Foundation, Image Builder has been included as a part of the Cloud Foundation Builder Appliance, and can be used to image hosts, as an alternative to manual imaging.
- Bring-up and configuration of VMware Cloud Foundation using the VMware Cloud Builder VM. This includes the deployment of the SDDC Manager instance, the ESXi hosts which have previously been configured, VMware vCenter Server®, VMware vSAN™, VMware NSX-T™ Data Center and configuration of VMware Cloud Foundation+ Licensing if used.

The following are the high-level activities included in this project:

- Implement – Deployment and verification of the solution.
- Knowledge Transfer – Knowledge transfer of the design, deployment, and operations procedures.

This project requires the following VMware On-Premises, VMware SaaS and third-party products, with vendor-supported versions as agreed to by VMware and Customer at project kickoff, but limited to those that are in general availability (GA) on the date of SOW signing:

- VMware Cloud Foundation 4.x

## Project scope

The scope of the service includes the specifications as described in this section.

VMware Cloud Foundation hardware and prerequisite checks		
Specification	Parameters	Description
Prerequisite and hardware checks	Up to one (1)	Prerequisite and hardware checks performed on the physical infrastructure used for VMware Cloud Foundation. This involves verification of the server and network configuration prior to deployment.

VMware Cloud Foundation ESXi host deployment		
Specification	Parameters	Description
ESXi hosts	Up to four (4)	ESXi hosts deployed prior to bring-up being performed with Cloud Builder.

VMware Cloud Foundation bring-up		
Specification	Parameters	Description
Regions	Up to one (1)	Sites at which to be deployed.
SDDC Manager instances	Up to one (1)	SDDC Manager instances to be deployed using VMware Cloud Foundation Builder.

Additional operational enablement activities		
Activity	Parameters	Description
Commissioning hosts workshop	Up to one (1)	Workshop showcasing how to commission additional ESXi hosts into a provisioned SDDC Manager Instance.
Lifecycle management workshop	Up to one (1)	Lifecycle management workshop. This workshop demonstrates how lifecycle management of the VMware vSphere® environment changes when VMware Cloud Foundation is used in the environment.
Customer support workshop	Up to one (1)	Customer support workshop, including collecting logs and using the SOS utility.

## Out of scope

### General

- Installing and configuring custom or third-party applications and operating systems on deployed virtual machines.
- Operating system administration including the operating system itself or any operating system features or components.
- Managing change to virtual machines, operating systems, custom or third-party applications, databases, and administration of general network changes within Customer control.
- Remediation work associated with any problems resulting from the content, completeness, accuracy, and consistency of any data, materials, or information supplied by Customer.
- Installing or configuring VMware products not included in the scope of this document.
- Installing or configuring third-party software or other technical services that are not applicable to VMware components.
- Installing or configuring Customer-signed certificates.
- Customer solution training other than the defined knowledge transfer session.

## Deploy a hyper-converged data center platform with VMware Cloud Foundation

- Configuration of the physical network. Physical network must be provisioned and available to the agreed upon hosts. Each host must be configured with two (2) network uplinks. A minimum of 10Gbps bandwidth for all-flash nodes and 1Gbps for hybrid nodes is required.
- Delivering on partner integrated system platforms. This service assumes the hardware is a ReadyNode or custom build configuration.
- Resolving network connectivity or power delivery issues in the physical environment
- Deployment of an any additional workload domains. This service only includes deployment of a 4-host management domain that can be used for a consolidated deployment installation of VMware Cloud Foundation.
- Design, deployment or configuration of VI workloads to be used in the environment.

## Estimated schedule

This is a fixed fee service, requiring an estimated forty (40) hours of effort over a duration of forty-five (45) days after project kick-off. VMware Professional Services will be performed remotely during normal VMware business hours and workdays (weekdays and non-holidays) and will be provided in English.

## Project activities

### Phase 1: Initiate

VMware hosts a project initiation call with key Customer stakeholders

Topics to be discussed include:

- Project business drivers, scope, and objectives.
- Project deadlines, timelines, scheduling, and logistics.
- Identification of key Customer team members who VMware will work with to accomplish the tasks defined in this data sheet.
- Customer technology prerequisites necessary for a successful project, including review of the Service Checklist for the VMware solution.

Deliverables:

- One (1) project initiation meeting
- Prerequisites checklist

### Phase 2: Plan

VMware leads a project kickoff meeting with Customer to assess prerequisite completion readiness, review the VMware standard architecture, and confirm project milestone dates.

The objectives of the meeting are:

- Describe the project goals, phases, and key dates.
- Review of technical prerequisites completion readiness
- Explaining the expected project results and deliverables

Deliverables

- One (1) project kickoff meeting
- VMware Cloud Foundation Kickoff Presentation

### **Phase 3: Execute**

VMware deploys the VMware Cloud Foundation architecture and validates the technology components.

VMware does the following:

- Installs and configures the VMware technologies according to the VMware Cloud Foundation architecture.
- Finalizes the Configuration Workbook with physical design elements
- Executes service and service component functional test validation.
- Conducts technical knowledge transfer sessions for administrators and operators.

Deliverables

- Solution Specific Workbook
- Solution Verification Workbook
- VMware Cloud Foundation Installation and Configuration Procedures Document
- Knowledge Transfer Presentation

### **Phase 4: Close**

VMware conducts a closure meeting with the Customer covering project status, reviewing completions, next steps and how to engage VMware support.

Deliverables

- Project closure meeting
- Transition to customer support

## Learn more

Visit [vmware.com/services](https://vmware.com/services).

## Service checklist

The participation of the following Customer stakeholders is required for the Service to be performed:

- Enterprise architect
- Infrastructure architect
- VMware operations team leads
- Network architecture team leads
- Entire VMware operations Team

The following prerequisites are required to enable VMware to perform this service:

- Number of hosts required. Defined minimum: Four (4) for the management workload domain.
- Number of VLANS required. Defined minimum: 5
- Active Directory required.
- DNS must be configured and tested for forward, reverse, short and long name resolution.
- Hardware must be verified against the VMware compatibility guide. Defined minimum: vSAN ReadyNodes with supported BIOS and Firmware versions installed.
- Number of IP subnets required. Defined minimum: 5
- VMware software installation media downloaded and available for use. Defined minimum: Cloud Foundation installation media (20GB in size can take significant time to download).
- Supporting hardware must be racked and stacked, and configuration verified.
- NTP must be setup and time verified to be correct.
- DHCP services for VMkernel interfaces. Defined minimum: Available for NSX Deployment.
- VMware Cloud Services Subscription – VMware Cloud Foundation+ (VCF+) subscription activation required within 60 days of deploying if VCF+ licensing is used for the instance.

This service must be delivered and accepted within the first 12 months of purchase, or the service will be forfeited. Pricing for this service excludes travel and other expenses. For detailed pricing, contact your local VMware representative.