

# VMware Cloud Foundation

## Small-Scale Deployment (8 Host)

### AT A GLANCE

The VMware Cloud Foundation Small-Scale Deployment service delivers a unified software-defined data center (SDDC) platform for the hybrid cloud. 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

- 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.

### Overview

The VMware Cloud Foundation Small Scale Deployment (8 Host) Service provides a foundational deployment of VMware Cloud Foundation. A VMware Consultant will remotely help to prepare the environment, and then deploys VMware Cloud Foundation in the environment using the capabilities provided by VMware Cloud Builder.

VMware will provide the following services:

- Deploy a hyper-converged data center platform

This includes the following modules:

- **Cloud Foundation 3.8 Hardware and Prerequisite Checks** – 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™.
- **Cloud Foundation 3.8 ESXi Host Deployment** – Initial deployment of the ESXi hosts for the installation of Cloud Foundation. In Cloud Foundation 3.8, 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.
- **Cloud Foundation 3.8 Bring-Up** – Bring-up and configuration of VMware Cloud Foundation using the VMware Cloud Foundation Builder VM. This includes the deployment of the SDDC Manager instance, the VMware ESXi™ hosts which have previously been configured, VMware vCenter Server®, VMware Platform Services Controllers™, VMware vSAN™, VMware NSX® for vSphere®, and VMware vRealize Log Insight™ for the management workload domain.
- **Cloud Foundation 3.8 VI Workload Domains** – Deployment and configuration of Virtual Infrastructure (VI) workload domains using VMware vSAN within VMware SDDC Manager.

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™ 3.8.x

## Project Scope

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

### Cloud Foundation 3.8 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 Cloud Foundation. This involves verification of the server and network configuration prior to deployment.

### Cloud Foundation 3.8 ESXi Host Deployment

Specification	Parameters	Description
ESXi Hosts	Up to eight (8)	ESXi hosts deployed prior to bring-up being performed with Cloud Foundation Builder.

### Cloud Foundation 3.8 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 Cloud Foundation Builder.
<b>Additional operational enablement activities</b>		<b>Additional activities performed in conjunction with this service include the following:</b>
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 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.

### Cloud Foundation 3.8 VI Workload Domains

Specification	Parameters	Description
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VI workload domains that use VMware NSX-V	Up to one (1)	VI workload domains that use VMware NSX-V and VMware vSAN are created.
<b>Additional operational enablement activities</b>		<b>Additional activities performed in conjunction with this service include the following:</b>
Creating and expanding workload domains workshop	Up to one (1)	Creating and expanding workload domains workshop. This workshop focuses on working with workload domains once an environment has been provisioned.

## Out of Scope

The following are the out of scope items for this project.

### General

- Installation and configuration of 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.
- Management of 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.
- Installation or configuration of VMware products not included in the scope of this document.
- Installation and configuration of third-party software or other technical services that are not applicable to VMware components.
- Installation and configuration of Customer-signed certificates.
- Configuration of VMware products used for the service other than those implemented for the mutually agreed to use cases.
- Customer solution training other than the defined knowledge transfer session.

### Deploy a hyper-converged data center platform

- 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.
- Resolving network connectivity or power delivery issues in the physical environment
- Design, deployment or configuration of VI workloads to be used in the environment.

## Estimated Schedule

This is a fixed fee service, requiring an estimated fifty-six (56) hours of effort over a duration of forty-five (45) days after project kick-off. VMware Professional Services will be performed during normal VMware business hours and workdays (weekdays and non-holidays).

## 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 datasheet.
- Customer technology prerequisites necessary for a successful project, including review of the Service Checklist for the VMware solution.

#### **Deliverables**

- 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 as follows:

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

#### **Deliverables**

- 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**

- Virtual Infrastructure solution specification workbook
- VMware Cloud Foundation Installation and Configuration Procedures Document
- Virtual Infrastructure solution verification workbook
- 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*

### **APPENDIX – 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:*

#### *VMware Cloud Foundation Deploy Service*

- *Number of hosts required. Defined minimum: Four (4) for the management workload domain, Four (4) for compute workload domains*
- *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 (8GB 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.*

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