



Solution Brief

Key Benefits

- Faster time to value
- Lower operational overhead
- Predictable lifecycle management
- Stronger security and compliance

VMware Cloud Foundation 9 Design & Implementation Service

Modern enterprises need more than infrastructure; they need an intentional, resilient, and evolving cloud foundation. The VMware Cloud Foundation 9 Design & Implementation Service brings that vision to life by combining architectural excellence with flawless execution.

The Design phase shapes a complete single-site VCF architecture tailored to your business and technical goals. It defines how compute, storage, networking, security, and operations come together into a unified private cloud platform built on VMware best practices.

The Implementation phase turns that architecture into a production-ready reality. Using VMware's validated deployment methods, experts install and configure the full VCF stack. From the Management Domain to the Workload Domain, from NSX networking to lifecycle operations, ensuring your environment is stable, consistent, and ready for mission-critical workloads.

This is more than deployment. It is the creation of a modern private cloud foundation that empowers your organization to innovate with confidence.

Overview

- End-to-end design and deployment of a single-site VMware Cloud Foundation 9 environment
- Architecture definition for Management Domain and VI Workload Domain
- NSX-powered network and security design across all domains
- VPC-ready segmentation, routing, and connectivity planning
- Deployment of VCF Installer, Management Domain, Workload Domain, NSX components, and operational services
- Configuration of compute, storage, networking, and lifecycle operations
- Detailed documentation, including HLD, LLD, configuration workbook, verification workbook, and design review



Solution Brief

Key Benefits

- Scalable private cloud foundation
- Optimized resource utilization
- Reduced deployment and integration risk
- Architecture aligned with VMware standards

Benefits

A Complete Cloud Journey: One service that covers everything; design, deployment, validation, and readiness.

Accelerated Time to Value: A validated architecture combined with expert implementation ensures a fast, predictable path to a fully operational private cloud.

Consistent, Best-Practice Deployment: Every component is installed and configured using VMware's validated methods, ensuring long-term stability and lifecycle alignment.

Reduced Complexity and Operational Overhead: Standardized architecture and deployment reduce risk, simplify operations, and streamline future expansion.

Stronger Security and Governance: NSX-driven segmentation, RBAC, and consistent policy enforcement strengthen your security posture from day one.

Future-Ready Foundation: The platform is designed and deployed to support new workloads, additional domains, and cloud-native services without disruptive redesign.



Service Scope Overview

The following service scope defines the parameters under which this service will be delivered. They establish the scope, supported components, and design boundaries to ensure clarity, consistency, and alignment with agreed objectives. Each parameter represents a specific aspect of the service design or implementation. By outlining these parameters, the documentation provides a transparent framework for delivery, enabling predictable outcomes and minimizing risk. This structured approach ensures that all stakeholders share a common understanding of what is included, how it will be executed, and the boundaries within which the service operates.

Management Domain Design

Specification	Parameter
Management Domain Design Scope	
Develop a design for the VCF environment, including hardware and software requirements.	Up to one (1) VCF Fleet and up to one (1) VCF instance
Design the management domain.	Up to one (1) VCF management domain (1 per VCF instance)
MGMT Domain Operations Design Scope	
Design VCF Operations	Up to one (1) VCF Operations cluster instance
Design VCF Operations Fleet Management	Up to one (1) Fleet Management appliance
Design VCF Operations Collector	Up to one (1) per VCF Instance
MGMT Domain NSX Design Scope	
NSX Manager Cluster Design	Up to one (1) per VCF instance
NSX Edge Cluster Design	Up to one (1) per VCF instance
Tier-0 Gateway Design	Up to one (1) TO Gateway
BGP Routing Design	Up to two (2) BGP peers
Centralized Transit Gateway Design	Up to one (1) Connectivity Profile
External Connections Design	Up to one (1) External Connection
VPC Connectivity Profile Design	Up to one (1) Connectivity Profile per VPC
VPC Service Profile Design	Up to one (1) Service Profile per VPC
Virtual Private Cloud (VPC) Design	Up to two (2) VPCs
VPC Subnet Design and IP Address Planning	Up to four (4) CIDRs
Transport Zone Design (Overlay and VLAN)	Up to one (1) Management Domain
Design Role-Based Access Control	Up to one (1) NSX Managers cluster



VI Workload Domain Design

Specification	Parameters
VI Workload Domain Design Scope	
Design VI Workload Domain(s)	Up to one (1) VI Workload Domains (1 per VCF instance)
Design VI Workload Domain Architectures	According to the VCF reference architecture and best practices
Design vCenter Server	Up to one (1) vCenter Server per WLD domain
Design cluster(s) for the Workload Domain	Up to one (1) cluster per WLD domain
Design vSphere Hosts for Workload Domain	Up to ten (10) vSphere hosts per cluster
Design storage for the Workload Domain	Up to one (1) Datastore
VI Workload Domain NSX	
NSX Manager Cluster Design	Up to one (1) NSX Manager cluster per VI Workload Domain
NSX Edge Cluster Design	Up to one (1) Edge cluster
Tier-0 Gateway Design	Up to one (1) TO Gateway
BGP Routing Design	Up to two (2) BGP peers
Centralized Transit Gateway Design	Up to one (1) Transit Gateway
External Connections Design	Up to one (1) External Connection
VPC Connectivity Profile Design	Up to one (1) Connectivity Profile per VPC
VPC Service Profile Design	Up to one (1) Service Profile Per VPC
Virtual Private Cloud (VPC) Design	Up to two (2) VPCs
VPC Subnet Design and IP Address Planning	Up to four (4) CIDRs
Transport Zone Design (Overlay and VLAN)	Up to one (1) Overlay and VLAN transport zone per VI Workload Domain
Design Role-Based Access Control	Up to one (1) NSX Managers cluster

MGMT Domain Implementation

Specification	Parameter
MGMT Domain Implementation Scope	
Deploy the VCF Installer appliance and download binaries	Up to one (1) appliance
Prepare physical hosts for bring-up	Up to four (4) ESX per VCF MGMT Domain
Deploy VMware Cloud Foundation	Up to one (1) Fleet and up to one (1) VCF instance
Deploy VMware Cloud Foundation Management Domain(s)	Up to one (1) VCF management domain (1 per VCF instance)
MGMT Domain Operations Implementation Scope	
Deploy VCF Operation(s)	Up to one (1) VCF Operations instance



Deploy VCF Operations Fleet Management	Up to one (1) Fleet Management appliance
Deploy VCF Operations Collector	Up to one (1) per VCF Instance
MGMT Domain NSX Implementation Scope	
Deploy NSX Manager(s)	Up to one (1) instance
Deploy NSX Edge Cluster in Management Domain	Up to one (1) per VCF MGMT Domain
Deploy NSX Edge Nodes for Management Domain	Up to two (2) per VCF MGMT Domain
Configure TO Gateway for Management Domain	Up to one (1) per VCF MGMT Domain
Configure BGP for Management Domain	Up to two (2) per VCF MGMT Domain
Configure T1 Gateway	Up to one (1) per VCF MGMT Domain
Configure segments	Up to four (4) per VCF MGMT Domain
Implement Role-Based Access Control	Up to one (1) VCF Instances

WLD Domain Implementation

Specification	Parameters
WLD Domain Implementation Scope	
Deploy vCenter Server	Up to one (1) new or share existing
Deploy NSX Manager cluster	Up to one (1) new or share existing
Deploy vSphere clusters	Up to one (1) cluster
Commission ESX hosts	Up to ten (10) hosts
Configure Distributed Virtual Switch (DVS)	Up to one (1) switch
Configure vSAN storage or external storage	Up to one (1) datastore
WLD Domain NSX Implementation Scope	
Deploy NSX Manager Cluster for VI Workload Domain(s)	Up to one (1) per VCF VI WLD
Deploy NSX Edge Cluster in VI Workload Domain(s)	Up to one (1) per VCF VI WLD
Deploy NSX Edge Nodes for VI Workload Domain(s)	Up to two (2) per VCF VI WLD
Configure TO Gateway for VI Workload Domain(s)	Up to one (1) per VCF VI WLD
Configure BGP for VI Workload Domain	Up to two (2) per VCF VI WLD
Configure Centralized Transit Gateway for VI Workload Domain	Up to one (1) per VCF VI WLD
Configure External Connections for Transit Gateway	Up to one (1) per VCF VI WLD
Configure VPC Connectivity Profile	Up to one (1) per VCF VI WLD
Configure VPC Service Profile	Up to one (1) per VCF VI WLD
Create NSX Virtual Private Cloud (VPC)	Up to two (2) per VCF VI WLD
Configure VPC Subnets	Up to two (2) per VPC
Implement Role-Based Access Control	Up to one (1) NSX instance



- NOTE:
- - This service is Greenfield and does not include migrations or upgrades
- - VCF Installer will be configured for the online depot

Milestones, deliverables, and Payment Schedule

Milestones #	Deliverables	Total Credits
Milestone #1	<ul style="list-style-type: none"> • Kick-Off Meeting 	66
Milestone #2	<ul style="list-style-type: none"> • Design Workshop(s) • Design Document • Design review with the customer 	127
Milestone #3	<ul style="list-style-type: none"> • Planning and Preparation Workbook 	105
Milestone #4	<ul style="list-style-type: none"> • Configuration and Verification Workbook • Project closure meeting 	40
Total		338

- MBCOM PSO estimates that the project will take 4 weeks to complete remotely.
- Any requirement for hybrid or on-site delivery shall be subject to prior agreement and coordination with the Account Manager and may result in adjustments to scope, timeline, and commercial terms.

[Commercial & Contractual Terms](#)