



Solution Brief

Key Benefits

- Scalable, future-ready Kubernetes foundation
- Optimized resource utilization
- Lower deployment and integration risk
- Architecture aligned with VMware standards

VMware Cloud Foundation 9 (VKS) Design & Implementation

Modern applications require a platform that is agile, scalable, and built for rapid innovation. The VMware Cloud Foundation 9 (VKS) Design & Implementation Service provides organizations with a complete, end-to-end journey toward a production-ready Kubernetes environment powered by vSphere Kubernetes Service (VKS).

The Design phase defines a tailored single-site architecture for deploying VKS Supervisor Clusters that support containerized workloads with high availability, strong security, and operational consistency. It brings together compute, storage, networking, namespaces, and Kubernetes services into a unified, enterprise-grade platform aligned with VMware best practices.

The Implementation phase transforms that architecture into a fully functional environment. Engineers deploy and configure the Supervisor Cluster, vSphere Namespaces, VKS Test Workload Cluster, NSX-backed pod networking, load balancing, and all required components to deliver a production-ready Kubernetes foundation.

The result is a modern application platform that empowers DevOps teams, accelerates delivery, and ensures your Kubernetes infrastructure is built right from day one.

Overview

- Design and deployment of a single-site vSphere Kubernetes Service (VKS) environment
- Architecture and implementation of VKS Supervisor Clusters for containerized workloads
- vSphere Namespace design and configuration for tenant isolation, quotas, access controls, and security
- Deployment and configuration of VKS Test Workload Cluster
- NSX-powered pod networking, load balancing, ingress, and network security policy configuration



Solution Brief

Key Benefits

- Faster adoption of Kubernetes and modern applications
- Reduced operational overhead for container platforms
- Stronger security and workload isolation
- Predictable lifecycle and governance model

- Storage architecture and implementation with vSAN, storage classes
- Day-2 operations planning, lifecycle management, and capacity considerations
- Documentation and knowledge transfer to ensure operational readiness

Benefits

Accelerate Kubernetes Adoption - Move from concept to production with a validated design and expert-led deployment.

Empower DevOps Teams - Namespace-driven isolation, quotas, and access controls enable secure, self-service Kubernetes operations.

Strengthen Security and Governance - NSX-backed pod networking and policy-driven segmentation protect workloads at every layer.

Optimize Application Performance - Supervisor Cluster placement and resource planning ensure consistent performance for containerized workloads.

Future-Ready Kubernetes Platform - Designed and deployed to support VKS Workload Clusters, cloud-native services, and evolving DevOps practices.

Operational Confidence - Lifecycle planning, and verification workbooks reduce complexity and risk.



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.

VMware Cloud Foundation 9 (VKS) Design Service

Design Service for VMware vSphere Kubernetes Service (VKS) provides comprehensive planning and design for deploying VKS Supervisor Clusters tailored to the customer's specific containerized workload requirements on one (1) site. This service is designed to create an agile, scalable, and efficient Kubernetes infrastructure that aligns with best practices and supports the customer's modern application objectives.

Specification	Parameters
Sites Designed	Up to one (1)
Supervisor Clusters Architecture Designed	Up to one (1)
vSphere Namespaces Designed	Up to one (1)
VKS Workload Cluster Classes Designed	Up to one (1)
Storage Classes Designed	Up to one (1)
Network Security Policies Designed	Up to one (1)
Resource Quota Policies Designed	Up to one (1)
Load Balancer Services Designed	Up to one (1)
Ingress Controllers Architecture Designed	Up to one (1)

VMware Cloud Foundation 9 (VKS) Implementation Service

The Implementation Service for VMware vSphere Kubernetes Service (VKS) provides comprehensive deployment and configuration of VKS Supervisor Clusters in accordance with approved design specifications. This service transforms the customer's VKS design into a fully functional, production-ready Kubernetes infrastructure, ensuring optimal performance, security, and operational efficiency for containerized workloads.

Specification	Parameters
Sites Implemented	Up to one (1)
Supervisor Clusters Deployed	Up to one (1)
vSphere Namespaces Configured	Up to one (1)
VKS Workload Clusters Deployed	Up to one (1)
Cluster Classes Configured	Up to one (1)
Storage Classes Configured	Up to one (1)
Network Security Policy Rules Configured	Up to one (1)



Load Balancer Services Configured	Up to one (1)
Ingress Controllers Configured	Up to one (1)

- This service is Greenfield and does not cover migrations or upgrades
- NSX is used as Layer 4 Load Balancing for vSphere Supervisor (including VM Service, vSphere PODs, VKS Clusters, and Supervisor Services)

Milestones, deliverables, and Payment Schedule

Milestones #	Deliverables	Total Credits
Milestone #1	Kick-Off Meeting	20
Milestone #2	Design Workshop(s) Design Document Design review with the customer	42
Milestone #3	Planning and Preparation Workbook	31
Milestone #4	Configuration and Verification Workbook Project closure meeting	30
Total		123

MBCOM PSO estimates that the project will take 1 week to complete.

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