



Solution Brief

Key Benefits

- Accelerated path to Kubernetes adoption
- Stronger security and governance model
- Lower deployment and integration risk
- Architecture aligned with VMware standards

VMware Cloud Foundation 9 (VKS) Design Service

Modern applications demand a platform that is scalable, secure, and optimized for rapid delivery. The VKS Design Service provides organizations with a complete, architecture-driven approach to designing a production-ready Kubernetes environment using vSphere Kubernetes Service (VKS) within VMware Cloud Foundation 9.

This engagement focuses exclusively on the design phase that aligns with VMware best practices and ensures that all components, compute, storage, networking, security, and Kubernetes services form a unified, enterprise-grade platform.

The result is a validated, future-ready Kubernetes architecture that accelerates DevOps adoption and provides a strong foundation for modern application delivery.

Overview

- Design of a single-site vSphere Kubernetes Service (VKS) environment
- Architecture for Supervisor Cluster deployment and workload placement
- vSphere Namespace design for tenant isolation, quotas, access controls, and security
- NSX-powered pod networking design including load balancing, ingress, and network security policies
- Storage architecture using vSAN storage classes
- Resource planning, capacity modeling, and Day-2 operational considerations
- Design documentation and knowledge transfer to ensure implementation readiness



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

Benefits

Accelerate Kubernetes Adoption - Move from concept to a validated, production-ready architecture built on VMware best practices.

Enterprise-Grade Security and Governance - NSX-backed pod networking and policy-driven segmentation ensure strong workload protection.

Optimized Resource Utilization - Supervisor Cluster and Namespace design ensures predictable performance and efficient scaling.

Future-Ready Kubernetes Platform - Architecture supports VKS Workload Clusters, cloud-native services, and evolving DevOps practices.

Operational Confidence - Lifecycle planning reduces operational risk and complexity.



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)

- 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	<ul style="list-style-type: none">Kick-Off Meeting	20
Milestone #2	<ul style="list-style-type: none">Design Workshop(s)Design DocumentDesign review with the customer	30
Milestone #3	<ul style="list-style-type: none">Planning and Preparation WorkbookProject closure meeting	21
Total		71

MBCOM PSO estimates that the project will take 4 days to complete.

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