



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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vSphere Kubernetes Service: Design, Deploy and Operate [V9.0]

CODE:

EDU-VMW-VKSDDO9

LENGTH:

40 Hours (5 days)

PRICE:

\$4,850.00

Description

This five-day course provides you with the knowledge, skills, and abilities to achieve competence in design, configuration, and operational management of VMware vSphere® Kubernetes Service (VKS) within VMware Cloud Foundation® (VCF) environments. You will learn vSphere Supervisor deployment models, storage topologies, and namespace architecture while gaining expertise in VKS cluster lifecycle management, workload deployment, and day-2 operations. The course covers vSphere Supervisor enablement options, VM Service deployment models, services architecture, and monitoring strategies. You will learn VKS cluster provisioning using kubectl, as well as workload deployment using YAML manifest files and Helm. Through hands-on labs and real-world scenarios, you will develop practical expertise in designing scalable Kubernetes infrastructure on VCF, operating VKS clusters, and building extensible cloud-native ecosystems for enterprise workload consumption.

Objectives

By the end of the course, you should be able to meet the following objectives:

- Identify the key components of a Kubernetes architecture
- Explain Volumes and persistent storage mechanisms in Kubernetes
- Explain Kubernetes networking
- Explain the concepts and components of vSphere Supervisor
- Explain the vSphere Supervisor authentication workflow using vCenter Single Sign-On
- Explain the key features of VCF Consumption CLI
- Describe the vSphere Supervisor deployment models
- Identify the vSphere Supervisor networking and load-balancing requirements
- Explain the vSphere Supervisor storage options including cross Datacenter topologies
- Outline the steps to configure vSphere Namespaces and Zones
- Explain the VCF Cloud Services enablement options
- Identify available Services in vSphere Supervisor including Velero and Extensible Services
- Explain how the vSphere Supervisor is monitored and upgraded
- Explain the VM creation workflow with VM Service
- Outline the VM Service deployment models for Virtual Machines with configurable OVF Properties
- Explain how to deploy a vSphere Pod using kubectl and expose it through a Load Balancer IP

Audience

System Administrators, Solution Engineers, Consultants, Architects, and Support Personnel

Prerequisites

This course has the following prerequisites:

- VCF Stage-1 Training
- Working experience and knowledge of VMware vSphere®, VMware NSX®, and vSAN environments

Program

1. Course Introduction • Introduction and course logistics • Course objectives

2. Kubernetes Overview • Difference between containers and virtual machines • Describe Docker workflow, including the build, ship, and run processes • Explain Container Networking concepts • Describe Container Runtime Interface (CRI) and the containerd role in Kubernetes

Session Dates

On request. Please [Contact Us](#)

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)