ΛRROW

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware Enterprise PKS: Install, Configure, Manage [V1.5]

CODE:	LENGTH:	PRICE:
VM-E-PKS-ICM-1.5	40 Hours (5 days)	$4,250.00

Description

This five-day course features intensive hands-on training that focuses on installing, configuring, and managing VMware® Enterprise PKS 1.5 (a purpose-built container solution to operationalize Kubernetes for multicloud enterprises and service providers). VMware Enterprise PKS significantly simplifies the deployment and management of Kubernetes clusters with Day 1 and Day 2 operations support. This course prepares you to install and administer a VMware Enterprise PKS environment for an organization of any size.

Objectives

By the end of the course, you should be able to meet the following objectives:
• Explain how the VMware Enterprise PKS platform enables enterprises to deploy and manage the Kubernetes platform as a service on premises
• Describe the VMware Enterprise PKS platform architecture
• Describe the preinstallation activities, such as how various topologies of VMware Enterprise PKS can be deployed, and how to meet prerequisites before installing VMware Enterprise PKS
• Describe how BOSH unifies release engineering, deployment, and lifecycle management of cloud software in a VMware Enterprise PKS platform
• Describe how the VMware Enterprise PKS Management Console appliance is used to configure and deploy the VMware Enterprise PKS platform components
• Describe how VMware NSX-T™ Data Center integrates with VMware Enterprise PKS to provide networking and security services for all the components in a VMware Enterprise PKS environment
• Install, manage, monitor, and troubleshoot a VMware Enterprise PKS environment
• Use Day 2 operations to create, view, scale, and delete Kubernetes clusters and upgrade VMware Enterprise PKS

Audience

• System administrators
• System engineers

Prerequisites

This class requires understanding the concepts and topics presented in the following courses:
• Kubernetes Foundations (or equivalent)
• Completion of VMware vSphere: Install, Configure, Manage [V6.x]
• Completion of VMware NSX-T: Install, Configure, Manage [V2.x]
System administration experience with cloud computing concepts and generic Kubernetes knowledge is strongly recommended

Programme

1 Course Introduction
• Introductions and course logistics
• Course objectives

2 VMware Enterprise PKS Value Proposition
• Kubernetes and VMware Enterprise PKS Overview
• Changes in Software Development Practices
• Containers Overview
• Kubernetes Overview
• Managing Kubernetes with VMware Enterprise PKS

3 VMware Enterprise PKS Architecture
• Introduction to BOSH
• Introduction to Kubernetes in VMware Enterprise PKS
• Introduction to Operations Manager
• Introduction to the VMware Enterprise PKS Control Plane
• Introduction to Harbor
• Introduction to VMware Enterprise PKS Management Console

4 Networking VMware Enterprise PKS with NSX-T
• Overview of NSX-T Data Center and it's uses
• Logical Switching, Routing, Load Balancing and NATs
• VMware NSX-T Data Center integration with Kubernetes
• Logical topologies
• Physical Topologies

5 Managing VMware Enterprise PKS
• Physical topologies
• Tools to manage VMware Enterprise PKS
• Managing users
• Network profiles
• Creating clusters
• Introduction to Kubernetes
• Persistent storage
• NSX-T Data Center Integration with VMware Enterprise PKS and Tools
• Managing clusters
• Managing Resources
• Upgrading VMware Enterprise PKS
• Backup and restore

6 Monitoring VMware Enterprise PKS
• Using vRealize Log Insight with VMware Enterprise PKS
• Using vRealize Operations with VMware Enterprise PKS
• Using Wavefront® by VMware® with VMware Enterprise PKS
• Using the Kubernetes dashboard
• VMware Enterprise PKS logging sinks

7 Installing VMware Enterprise PKS
• Overview of the Installation Process
• Install using Operations Manager
• Installing VMware Enterprise PKS
• Installing Harbor

8 Troubleshooting VMware Enterprise PKS
• Troubleshooting with Bosh
• Retrieving Logs
• Troubleshooting Tips

Session Dates

On request. Please Contact Us

Additional Information

This training is also available as onsite training. Please contact us to find out more.