

## [VMEPKSICMV1.5]: VMware Enterprise PKS: Install, Configure, Manage [V1.5]

Length : 5 Days  
Delivery Method : Instructor-led (Classroom)

### Course Overview

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.

### Audience Profile

- System administrators
- System engineers

### At Course Completion

- 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

### Pre-Requisites

This class requires understanding the concepts and topics presented in the following courses:

- Kubernetes Foundations (or equivalent)
- VMware vSphere: Install, Configure, Manage [V6.x]
- VMware NSX-T Data Center: Install, Configure, Manage [V2.x]

#### AVANTUS TRAINING PTE LTD

80 Jurong East Street 21 #04-04 Devan Nair Institute Singapore 609607

Main Line: +65 6661 0888 | Fax: +65 6661 0886

Email: [enquiries@AvantusTraining.com](mailto:enquiries@AvantusTraining.com)

[www.AvantusTraining.com](http://www.AvantusTraining.com)

## Course Outline

### Module 1: Course Introduction

#### Lessons

- Introductions and course logistics
- Course objectives

### Module 2: VMware Enterprise PKS Value Proposition

#### Lessons

- Kubernetes and VMware Enterprise PKS Overview
- Changes in Software Development Practices
- Containers Overview
- Kubernetes Overview
- Managing Kubernetes with VMware Enterprise PKS

### Module 3: VMware Enterprise PKS Architecture

#### Lessons

- 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

### Module 4: Networking VMware Enterprise PKS with NSX-T

#### Lessons

- 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

### Module 5: Managing VMware Enterprise PKS

#### Lessons

- 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

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**Module 6: Monitoring VMware Enterprise PKS****Lessons**

- 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

**Module 7: Installing VMware Enterprise PKS****Lessons**

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

**Module 8: Troubleshooting VMware Enterprise PKS****Lessons**

- Troubleshooting with Bosh
- Retrieving Logs
- Troubleshooting Tips

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