

## VMware Enterprise PKS: Install, Configure, Manage [V1.5] (PKSICM15)

ID PKSICM15 Prix 3 440,- € (Hors Taxe) Durée 5 jours

### A qui s'adresse cette formation

- System administrators
- System engineers

### Pré-requis

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

- !Kubernetes Foundations (KF) (or equivalent)
- Completion of VMware vSphere: Install, Configure, Manage [V6.7]
- Completion of [VMware NSX-T: Install, Configure, Manage \(NSXTICM\)](#)

System administration experience with cloud computing concepts and generic Kubernetes knowledge is strongly recommended

### Objectifs

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

### Contenu

#### Course Introduction

- Introductions and course logistics
- Course objectives

#### 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

#### 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

#### Networking VMware Enterprise PKS with NSX-T

- Overview of NSX-T Data Center and its uses
- Logical Switching, Routing, Load Balancing and NATs
- VMware NSX-T Data Center integration with Kubernetes
- Logical topologies
- Physical Topologies

#### 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

## 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

## Installing VMware Enterprise PKS

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

## Troubleshooting VMware Enterprise PKS

- Troubleshooting with Bosh
- Retrieving Logs
- Troubleshooting Tips

## Provisioning a New Kubernetes Cluster for Developer Use

- Installing PKS and Kubectl Command Line Interfaces (CLI)
- Establishing New User Credentials
- Creating a Network Profile
- Creating a new Cluster
- Pushing Images into Harbor
- Deploying an application

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## Centres de formation dans le monde entier



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