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

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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 it's 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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