



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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**Vous pouvez nous joindre ici**

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**CODE:**                      **DURÉE:**                      **PRIX H.T.:**

VMW\_PKSICM15      40 Hours (5 Jours)      €3,440.00

## 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.

## 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

## Audience

- System administrators
- System engineers

## Prérequis

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                | 2 VMware Enterprise PKS Value Proposition        |
| • Introductions and course logistics | • Kubernetes and VMware Enterprise PKS Overview  |
| • Course objectives                  | • 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 its 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

### 9 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

### 8 Troubleshooting VMware Enterprise PKS

- Troubleshooting with Bosh
- Retrieving Logs
- Troubleshooting Tips

## Dates de session

Sur demande. [Merci de nous contacter](#)

## Informations

### Complémentaires

Cette formation est également disponible sous forme de formation sur site. Veuillez nous contacter pour en savoir plus.