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### **Enterprise Computing Solutions - Education Services**

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## VMware vSphere: Install, Configure, Manage [V8]

CODE:	DURÉE:	PRIX H.T.:	
VMW VSICM8	40 Hours (5 Jours)	€4,300.00	

#### Description

This five-day course features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere 8, which includes VMware ESXi 8 and VMware vCenter 8. This course prepares you to administer a vSphere infrastructure for an organization of any size.

This course is the foundation for most VMware technologies in the software-defined data center. Product Alignment

- VMware ESXi 8.0
- VMware vCenter 8.0

#### Objectifs

By the end of the course, you should be able to meet the following objectives: • Install and configure ESXi hosts

- Deploy and configure vCenter Use the vSphere Client to create the vCenter inventory and assign roles to vCenter users
- Create virtual networks using vSphere standard switches and distributed switches
- · Create and configure datastores using storage technologies supported by vSphere
- Use the vSphere Client to create virtual machines, templates, clones, and snapshots
- Create content libraries for managing templates and deploying virtual machines Manage virtual machine resource allocation
- · Migrate virtual machines with vSphere vMotion and vSphere Storage vMotion

• Create and configure a vSphere cluster that is enabled with vSphere High Availability (HA) and vSphere Distributed Resource Scheduler

Manage the life cycle of vSphere to keep vCenter, ESXi hosts, and virtual machines up to date

#### Audience

- System administrators
- System engineers

#### Prérequis

This course has the following prerequisites:

System administration experience on Microsoft Windows or Linux operating systems

#### Programme

#### 2 vSphere and Virtualization Overview

- Explain basic virtualization concepts
- Describe how vSphere fits in the software-defined data center and the cloud infrastructure
- Introductions and course logistics Recognize the user interfaces for accessing vSphere
- Course objectives

**1** Course Introduction

- Explain how vSphere interacts with CPUs, memory, networks, storage, and GPUs
- **3 Installing and Configuring ESXi**
- Install an ESXi host
- Recognize ESXi user account best practices
- Configure the ESXi host settings using the DCUI and VMware Host Client

#### 4 Deploying and Configuring vCenter

- Recognize ESXi hosts communication with vCenter
- Deploy vCenter Server Appliance
- Configure vCenter settings
- · Use the vSphere Client to add and manage license keys
- · Create and organize vCenter inventory objects
- Recognize the rules for applying vCenter permissions
- · View vCenter logs and events

#### **5** Configuring vSphere Networking

- · Configure and view standard switch configurations
- Configure and view distributed switch configurations
- · Recognize the difference between standard switches and distributed switches
- Explain how to set networking policies on standard and distributed switches

#### **7 Deploying Virtual Machines**

- Create and provision VMs
- · Explain the importance of VMware Tools
- Identify the files that make up a VM
- · Recognize the components of a VM
- Navigate the vSphere Client and examine VM settings and options
- · Modify VMs by dynamically increasing resources
- · Create VM templates and deploy VMs from them
- - Create customization specifications for guest operating systems
- · Describe iSCSI components and addressing Configure iSCSI storage on ESXi

Configure and manage NFS datastores

· Identify types of vSphere datastores

· Recognize vSphere storage technologies

6 Configuring vSphere Storage

- Create and manage VMFS datastores
- Deploy VMs from content libraries
- Manage multiple versions of VM templates in content libraries

#### 8 Managing Virtual Machines

- Recognize the types of VM migrations that you can perform within a vCenter instance and across vCenter instances
- Migrate VMs using vSphere vMotion
- · Describe the role of Enhanced vMotion Compatibility in migrations
- Migrate VMs using vSphere Storage vMotion
- Take a snapshot of a VM
- Manage, consolidate, and delete snapshots
- · Describe CPU and memory concepts in relation to a virtualized environment
- Describe how VMs compete for resources
- · Define CPU and memory shares, reservations, and limits

#### 9 Deploying and Configuring vSphere Clusters

- Create a vSphere cluster enabled for vSphere DRS and vSphere HA
- View information about a vSphere cluster
- · Explain how vSphere DRS determines VM placement on hosts in the cluster
- Recognize use cases for vSphere DRS settings
- Monitor a vSphere DRS cluster
- Describe how vSphere HA responds to various types of failures
- · Identify options for configuring network redundancy in a vSphere HA cluster
- Recognize vSphere HA design considerations
- · Recognize the use cases for various vSphere HA settings
- · Configure a vSphere HA cluster
- · Recognize when to use vSphere Fault Tolerance

#### 10 Managing the vSphere Lifecycle

- · Enable vSphere Lifecycle Manager in a vSphere cluster
- · Describe features of the vCenter Update Planner
- · Run vCenter upgrade prechecks and interoperability reports
- Recognize features of vSphere Lifecycle Manager
- · Distinguish between managing hosts using baselines and managing hosts using images
- · Describe how to update hosts using baselines
- · Describe ESXi images
- Validate ESXi host compliance against a cluster image and update ESXi hosts
- Update ESXi hosts using vSphere Lifecycle Manager
- Describe vSphere Lifecycle Manager automatic recommendations
- · Use vSphere Lifecycle Manager to upgrade VMware Tools and VM hardware

#### **Test et Certification**

https://www.vmware.com/learning/certification/vcp-dcv.html

#### Dates de session

- Describe Fibre Channel components and addressing Clone VMs

  - · Create local, published, and subscribed content libraries

Date	Lieu	Time Zone	Langue	Туре	Garanti	PRIX H.T.
16 Sep 2024	Virtual Classroom	CEDT	English	Instructor Led Online		€4,300.00
04 Nov 2024	Virtual Classroom	CET	English	Instructor Led Online		€4,300.00
09 Dec 2024	Virtual Classroom	CET	English	Instructor Led Online		€4,300.00

#### Informations Complémentaires

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