

# **Enterprise Computing Solutions - Education Services**

# TRAINING OFFERING

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# VMware vSphere: Install, Configure, Manage [V7]

CODE: DURÉE: PRIX H.T.:

VMW VSICM7 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® 7, which includes VMware ESXi™ 7 and VMware vCenter Server® 7. This course prepares you to administer a vSphere infrastructure for an organization of any size.

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

# **Objectifs**

By the end of the course, you should be able to meet the following objectives:

- Describe the software-defined data center (SDDC)
- Explain the vSphere components and their function in the infrastructure
- Install and configure VMware ESXi<sup>™</sup> hosts
- Deploy and configure VMware vCenter® Server Appliance™
- Use VMware vSphere® Client™ to manage the vCenter Server inventory and the vCenter Server configuration
- · Manage, monitor, back up, and protect vCenter Server Appliance
- Create virtual networks with vSphere standard switches
- Describe the storage technologies supported by vSphere
- · Configure virtual storage using iSCSI and NFS storage
- Create and manage VMware vSphere® VMFS datastores
- Use the vSphere Client to create virtual machines, templates, clones, and snapshots
- Create a content library and deploy virtual machines from templates in the library
- · Manage virtual machine resource use
- Migrate virtual machines with VMware vSphere® vMotion® and VMware vSphere® Storage vMotion®
- Create and manage a vSphere cluster that is enabled with VMware vSphere
- ® High Availability and VMware vSphere® Distributed Resource Scheduler™
- Discuss solutions for managing the vSphere life cycle
- Use VMware vSphere
- ® Update Manager™ to apply patches and perform upgrades to ESXi hosts and virtual machines

#### **Audience**

- · System administrators
- · System engineers

## **Prérequis**

This course has the following prerequisites:

· System administration experience on Microsoft Windows or Linux operating systems

#### **Programme**

- 1 Course Introduction
- · Introductions and course logistics
- Course objectives
- 2 Introduction to vSphere and the Software-Defined Data Center
- · Explain basic virtualization concepts
- · Describe how vSphere fits into the software-defined data center and the cloud infrastructure
- Explain how vSphere interacts with CPUs, memory, networks, and storage
- · Recognize the user interfaces for accessing the vCenter Server system and ESXi hosts

- Use VMware Host Client™ to access and manage ESXi host
- 3 Virtual Machines
- · Create and remove a virtual machine
- · Provision a virtual machine with virtual devices
- · Identify the files that make up a virtual machine
- Explain the importance of VMware Tools™
- 4 vCenter Server
- Describe the vCenter Server architecture
- Discuss how ESXi hosts communicate with vCenter Server
- Deploy and configure vCenter Server Appliance
- Use the vSphere Client to manage the vCenter Server inventory
- · Add data center, organizational objects, and hosts to vCenter Server
- Use roles and permissions to enable users to access objects in the vCenter Server inventory
- · Back up vCenter Server Appliance
- Monitor vCenter Server tasks, events, and appliance health
- Use vCenter Server High Availability to protect a vCenter Server Appliance
- 5 Configuring and Managing Virtual Networks
- · Create and manage standard switches
- Describe the virtual switch connection types
- · Configure virtual switch security, traffic-shaping and load-balancing policies
- · Compare vSphere distributed switches and standard switches
- 6 Configuring and Managing Virtual Storage
- · Identify storage protocols and storage device types
- · Discuss ESXi hosts using iSCSI, NFS, and Fibre Channel storage
- · Create and manage VMFS and NFS datastores
- · Explain how multipathing works with iSCSI, NFS, and Fibre Channel storage
- Deploy virtual machines on a VMware vSAN™ datastore
- 7 Virtual Machine Management
- Use templates and cloning to deploy new virtual machines
- · Modify and manage virtual machines
- · Create a content library and deploy virtual machines from templates in the library
- Dynamically increase the size of a virtual disk
- Use customization specification files to customize a new virtual machine
- Perform vSphere vMotion and vSphere Storage vMotion migrations
- Create and manage virtual machine snapshots
- Examine the features and functions of VMware vSphere® Replication™
- 8 Resource Management and Monitoring
- · Discuss CPU and memory concepts in a virtualized environment
- Describe what overcommitment of a resource means
- Describe methods for optimizing CPU and memory usage
- · Use various tools to monitor resource use
- Create and use alarms to report certain conditions or events
- 9 vSphere Clusters
- Describe options for making a vSphere environment highly available
- Explain the vSphere HA architecture
- · Configure and manage a vSphere HA cluster
- Examine the features and functions of VMware vSphere® Fault Tolerance
- Configure a vSphere cluster using ESXi Cluster Quickstart
- · Describe the functions of a vSphere DRS cluster
- Create a vSphere DRS cluster
- 10 vSphere Lifecycle Management
- Describe how VMware vSphere® Lifecycle Manager™ works
- Use vSphere Lifecycle Manager to update ESXi hosts in a cluster

## Dates de session

Date	Lieu	Time Zone	Langue	Туре	Garanti	PRIX H.T.
01 Jan 0001			English	Self Paced Training		€3,440.00

# Informations Complémentaires

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