



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Vous pouvez nous joindre ici

Email: training.ecs.fr@arrow.com
Phone: 01 49 97 50 00

| | | |
|--------------|--------------------|-------------------|
| CODE: | DURÉE: | PRIX H.T.: |
| VMW_VSICM7 | 35 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™ 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

Préquis

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 | Type | 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.](#)