Publication date : 02/15/2024

Course : VMware vSphere: Install, Configure, Manage V8 (VSICM8)

Official course, exam preparation 2V0-21.23

Practical course - 5d - 35h00 - Ref. AMW
Price : 4650 € E.T.

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ActionCo

Formation éligible au financement Atlas

With this training, you will receive practical and intensive training focused on the installation, configuration, and management of VMware vSphere 8, which includes VMware ESXi 8 and VMware vCenter 8. This training prepares you to administer a vSphere infrastructure for an organization of any size.

Teaching objectives

At the end of the training, the participant will be able to:

- Installing and configuring ESXi hosts
- Deploying and configuring vCenter
- Use vSphere Client to create 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 vSphere Client to create virtual machines, templates, clones and snapshots
- Create content libraries to manage templates and deploy virtual machines
- Manage virtual machine resource allocation
- Migrating virtual machines with vSphere vMotion and vSphere Storage vMotion
- Create and configure a vSphere cluster enabled with vSphere HA and vSphere Distributed Resource Scheduler
- Manage the vSphere lifecycle to keep vCenter, ESXi hosts and virtual machines up to date

Intended audience

Administrateurs et ingénieurs systèmes.

PARTICIPANTS

Administrateurs et ingénieurs systèmes.

PREREQUISITES

Experience in system administration on Microsoft Windows or Linux operating systems.

TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

ASSESSMENT TERMS

Assessment of targeted skills prior to training.
Assessment by the participant, at the end of the training course, of the skills acquired during the training course.
Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.
At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.
An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

Prerequisites

Experience in system administration on Microsoft Windows or Linux operating systems.

Practical details

Teaching methods

Training in French. Official course material in English and digital format. Good understanding of written English.

TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: psh-accueil@orsys.fr so that we can assess your request and its feasibility.

Course schedule

1 Introduction to vSphere and virtualization

- Explain the basic concepts of virtualization.
- Describe how vSphere integrates into the software-defined data center and cloud infrastructure.
- Know the user interfaces for accessing vSphere.
- Explain how vSphere interacts with CPUs, memory, networks, storage and GPUs.

2 ESXi installation and configuration

- Install an ESXi host.
- Identify ESXi user account best practices.
- Configure ESXi host parameters using DCUI and VMware Host Client.

3 Deploying and configuring vCenter

- Identify ESXi host communication with vCenter.
- Deploy vCenter Server Appliance.
- Configure vCenter parameters.
- Use vSphere Client to add and manage license keys.
- Create and organize vCenter inventory objects.
- Identify the rules for applying vCenter authorizations.
- View vCenter logs and events.

4 Configuring vSphere networking

- Configure and display standard switch configurations.
- Configure and display distributed switch configurations.
- Identify the difference between standard and distributed switches.
- Explain how to define networking policies on standard and distributed switches.

5 vSphere storage configuration

- Understand vSphere storage technologies.
- Identify vSphere datastore types.
- Describe Fibre Channel components and addressing.
- Describe iSCSI components and addressing.
- Configure iSCSI storage on ESXi.
- Create and manage VMFS datastores.
- Configure and manage NFS datastores.

6 Deploying virtual machines

- Create and provision virtual machines.
- Explain the importance of VMware Tools.
- Identify the files that make up a VM.
- Know 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.
- Clone VMs.
- Create local content libraries.
- Deploy VMs from content libraries.
- Manage multiple versions of VM templates in content libraries.

7 Virtual machine management

- Perform VM migrations within a vCenter instance and between vCenter instances.
- Migrate VMs using vSphere vMotion.
- Migrate VMs using vSphere Storage vMotion.
- Take a snapshot of a VM.
- Manage, consolidate and delete snapshots.
- Describe the concepts of CPU and memory in relation to a virtualized environment.
- Describe how VMs compete for resources.
- Define shares, reservations, CPU and memory limits.

8 Deploying and configuring vSphere clusters

- Create a vSphere cluster enabled for vSphere DRS and vSphere HA.
- Display information about a vSphere cluster.
- Explain how vSphere DRS determines VM placement on cluster hosts.
- Learn how to use vSphere DRS parameters.
- Monitor a vSphere DRS cluster.
- Describe how vSphere HA responds to different types of failure.
- Identify the options for configuring network redundancy in a vSphere HA cluster.
- vSphere HA design considerations.
- Know the use cases of various vSphere HA parameters.
- Configure a vSphere HA cluster.
- Know when to use vSphere Fault Tolerance.

9 vSphere Lifecycle management

- Activate vSphere Lifecycle Manager in a vSphere cluster.
- Describe the features of vCenter Update Planner.
- Run vCenter upgrade checks and interoperability reports.
- Know the features of vSphere Lifecycle Manager.
- Distinguish between managing hosts and knowing how to update them.
- Describe ESXi images.
- Validate ESXi host conformity with a cluster image and update ESXi hosts.
- Update ESXi hosts using vSphere Lifecycle Manager.
- Take vSphere Lifecycle Manager recommendations into account.
- Use vSphere Lifecycle Manager to upgrade VMware Tools and VM hardware.

Options

Certification : 360 € H.T.

Successful completion of the 2V0-21.23 exam leads to VMware Certified Professional - Data Center Virtualization 2023 (VCP-DCV 2023) certification.
Comment passer votre examen ?

The certification option comes in the form of a voucher or invitation that will allow you to take the exam at the end of the training course.

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Dates and locations

REMOTE CLASS
2026 : 16 Nov.

2027 : 22 Mar., 22 Mar., 18 Oct., 18 Oct., 29 Nov., 29 Nov.

PARIS LA DÉFENSE
2026 : 16 Nov.

2027 : 22 Mar., 18 Oct., 29 Nov.