Course : VMware vSphere 8, installation, configuration and administration

Practical course - 5d - 35h00 - Ref. VM8
Price : 3960 CHF E.T.

★★★★⯨   4,9 / 5

(BEST)

This course will enable you to install, configure and administer the components of a VMware vSphere 8 virtual infrastructure. You'll learn how to manage the virtual network, storage, resources and machine deployment. You'll also learn how to secure and back up your infrastructure.

🎯 Teaching objectives

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

- ✓ Install, configure and manage a VMware virtual infrastructure (vSphere, vCenter)
- ✓ Configuring and managing virtual network and storage in vSphere 8
- ✓ Create, deploy and use virtual machines
- ✓ Secure access to VMware infrastructure
- ✓ Manage virtual infrastructure updates

Intended audience

This course is aimed at system administrators and architects who want to get to grips with the VMware vSphere 8 and vCenter 8 software suites quickly.

Prerequisites

Basic knowledge of Windows and/or Linux administration is required.

Course schedule

PARTICIPANTS

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PREREQUISITES

Basic knowledge of Windows and/or Linux administration is required.

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

1. Virtual infrastructure

- Compute, network and storage virtualization concepts.
- Overview of VMware vSphere 8.
- Cloud and Edge Computing.
- vSphere 8 components, new Data Plane features (DPUs).
- Enhanced security with Lockdown Mode.

Hands-on work
Installing and managing ESXi vSphere 8

2. vCenter 8

- Management Plane features.
- License management.
- vSphere inventory management.

Hands-on work
Deploy, configure and manage vCenter.

3. Virtual network management

- Standard and distributed switches.
- Logic switches (Nsx).
- Advanced network configuration (security, traffic management, teaming management).

Hands-on work
Configure and manage the virtual network in vSphere.

4. Virtual storage management

- Different storage protocols.
- SAN FC & iSCSI, NAS, NVMe storage.
- Virtual Volumes and Virtual SAN.
- Datastore creation and management.

Hands-on work
Configure, manage and optimize storage in VMware vSphere.

5. Virtual Machine (VM) creation, deployment and administration

- VM components, virtual hardware version 20.
- VM creation, cloning, deletion, snapshots.
- Cold and hot migrations, vMotion enhancements.
- Template creation and management.
- Content libraries, Ovf and Ova templates.
- Virtual hardware management: Thin & thick provisioning, VMDirectPath.
- Raw Device Mapping.
- Replications.

Hands-on work
VM creation, clones, templates, snapshots, replications.

TEACHING AIDS AND TECHNICAL RESOURCES

• The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.

• At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.

• A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

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

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

6 High availability and service continuity

- High-availability cluster management.
- VM fault tolerance with VMware Fault Tolerance.

Hands-on work
Manage the high availability of the virtual infrastructure.

7 Monitoring and managing resource use

- Manage VM resources (shares, limits, reservations).
- Load balancing within the computing cluster.
- Resource pools.
- Technologies for optimizing processor and memory utilization.
- Performance monitoring.
- Infrastructure monitoring with alarms.
- Update management with VMware Lifecycle Manager.

Hands-on work
DRS cluster, roles and privileges, updates and patch applications.

Dates and locations

REMOTE CLASS
2026 : 15 June, 15 June, 5 Oct., 5 Oct., 16 Nov.,
14 Dec., 14 Dec.