

Course : VMware vSphere 7, installation, configuration and administration

Practical course - 5d - 35h00 - Ref. VMK

Price : 3700 € E.T.

BEST

Get to grips with the VMware vSphere 7 virtual infrastructure with this course that will enable you to install, configure and administer its components, learn how to manage the virtual network, storage, resources and the deployment of machines, and finally how to secure and back up this infrastructure.

Teaching objectives

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

- ✓ Install and configure VMware vSphere virtual infrastructure components (ESXi, vCenter)
- ✓ Configuring and managing the virtual network in vSphere
- ✓ 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 7 software suite (ESXi 7 and vCenter 7) quickly.

Prerequisites

Basic knowledge of Windows and/or Linux administration.

Course schedule

1 Virtual infrastructure

- Server, network and storage virtualization concepts.
- The benefits of virtualization.
- Overview of VMware vSphere 7.
- vSphere 7 architecture.
- vSphere 7 components.

PARTICIPANTS

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PREREQUISITES

Basic knowledge of Windows and/or Linux administration.

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.

2 VMware vCenter 7 Server

- Platform Services Controller.
- vCenter 7 Appliance.
- License management.
- vSphere inventory management.

Hands-on work

Install and configure VMware vSphere virtual infrastructure components (ESXi, vCenter).

3 Network management: vNetwork Standard Switch

- Standard virtual switches.
- Advanced network configuration (security, traffic management, teaming management).

Hands-on work

Configure and manage the virtual network in vSphere.

4 vSphere storage management: vStorage

- Different storage protocols.
- Fibre Channel SAN storage.
- iSCSI SAN storage.
- NFS storage.
- 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.
- New VM creation, cloning, snapshots, deletion and cold migration.
- Template creation and management.
- Virtual hardware management: Thin provisioning, VMDirectPath.
- Raw Device Mapping.

6 Infrastructure access security

- Configure and administer firewalls in ESXi.
- Use Lockdown Mode.
- Integrate ESXi with the Active Directory.
- Securing access: roles and permissions.

7 Monitoring and managing resource use

- Manage VM resources (shares, limits, reservations).
- Resource pools.
- Technologies for optimizing processor and memory utilization.
- Performance monitoring.
- Infrastructure monitoring with alarms.

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.

8 High availability and service continuity

- VMware High Availability (HA) cluster management.
- VM fault tolerance with VMware Fault Tolerance.
- VMware vSphere Replication.
- Virtual infrastructure upgrade.
- Update management with VMware Update Manager.

Hands-on work

Manage the high availability of your virtual infrastructure. Implement VM fault tolerance with Fault Tolerance, VM replication with vSphere Replication and updates.

Dates and locations

REMOTE CLASS

2026 : 1 June, 8 June, 17 Aug., 7 Sep., 19 Oct.,
19 Oct., 14 Dec.

PARIS LA DÉFENSE

2026 : 8 June, 17 Aug., 19 Oct., 14 Dec.