Course : VMware vSphere 8, optimization and advanced features

Practical course - 5d - 35h00 - Ref. V8A
Price : 3370 € E.T.

★★★★★ **5 / 5**

This training course will give you the knowledge you need to optimize and implement the advanced features of VMware vSphere 8. You'll learn how to set up virtual machines, identify Central Processing Unit (CPU), memory, network and storage performance issues.

◎ Teaching objectives

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

- ✓ Optimizing virtual machine configuration in a VMware vSphere 8 environment
- ✓ Understand CPU, memory, network and storage resource allocation
- ✓ Identify the main problems with CPU, memory, network and storage performance
- ✓ Set up Distributed Switches and use their advanced functions
- ✓ Improving deployment and configuration of ESXi servers

Intended audience

Administrators and system architects with experience of the VMware vSphere software suite who want to acquire advanced knowledge.

Prerequisites

Good knowledge of VMware vSphere administration.

Course schedule

1 Command line overview

- Overview of VMware command lines.
- esxcli commands.
- Other commands (PowerCLI).

2 Performance in a virtualized environment

- Performance factors in virtual environments.
- Performance monitoring with vCenter and esxtop.

3 Distributed Virtual Switches (dvSwitch)

- Creation, configuration and management.
- Migration from standard to distributed virtual switches.
- Understand NetFlow, port-mirroring, Link Aggregation Control Protocol (LACP).
- Private VLANs (PVLANs). QoS/Network I/O Control.

Hands-on work
Command-line network configuration.

4 Network performance

- Adapter features.
- Set up a traffic analyzer.
- Monitor performance metrics.

Hands-on work
Troubleshoot classic performance problems.

5 Storage access, performance and scalability

- Storage performance factors (protocols, VMFS, load balancing).
- Storage-related performance problems.
- Configure storage multipathing. Understand VAAI and VASA storage drivers.
- Using storage profiles for VMs. DataStore clusters.

Hands-on work
Storage DRS and Storage IO Control configuration.

6 Deployment, optimized server management

- PSC (Platform Services Controller) architecture.
- Using content libraries.
- VMware Host Profile: compliance maintenance, ESXi deployment.
- Image Builder: create an ESXi installation image.
- vSphere Auto Deploy: deploy ESXi hosts.

7 Processor and memory performance

- CPU Scheduler features.
- Monitor CPU and memory resources.
- Memory management techniques on ESXi.

Hands-on work
Troubleshoot CPU problems.

8 VM and cluster performance

- Performance of DRS clusters, resource pools and resource allocation parameters.
- Resource allocation parameters.

Dates and locations

REMOTE CLASS
2026 : 13 Apr., 1 June, 19 Oct., 23 Nov.

PARIS LA DÉFENSE
2026 : 30 Mar., 18 May, 12 Oct., 16 Nov.