

## Advanced VMware Training Course

*Lyon (France)*

*16 - 20 June 2025*

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## Advanced VMware Training Course

Code: IT28 From: 16 - 20 June 2025 City: Lyon (France) Fees: 4900 Pound

### Introduction

Welcome to the Advanced VMware Training Course. This program is designed to provide you with an in-depth understanding of VMware's powerful virtualization technology. Over 5 days of training, you will explore advanced concepts, gain hands-on experience, and develop the skills necessary to manage VMware virtual infrastructures, optimize performance, and ensure a highly available, secure, and scalable environment.

### Course Objectives

By the end of this course, you will be able to:

- Develop an advanced understanding of VMware virtualization technology.
- Gain proficiency in configuring and managing VMware virtual infrastructure.
- Learn how to optimize performance, resource allocation, and scalability in VMware environments.
- Acquire the skills necessary to design, deploy, and maintain VMware solutions effectively.
- Understand best practices for securing VMware environments and implementing disaster recovery strategies.

### Course Outlines

#### Day 1: Introduction to Advanced VMware Virtualization

- Virtualization Concepts
  - Benefits and challenges of virtualization.
  - The role of VMware in modern IT infrastructures.
- Overview of VMware Products and Solutions
  - Introduction to VMware ESXi, vSphere, and vCenter.
  - Key components for managing virtualized environments.
- Installing and Configuring VMware ESXi
  - ESXi host installation and setup.
  - Networking and storage configuration for ESXi hosts.
  - Host profiles and system settings.
- Overview of VMware vCenter Server
  - Managing ESXi hosts and VMs via vCenter.
  - vCenter Server architecture and components.

#### Day 2: Advanced VMware Configuration and Resource Management

- Virtual Machine Creation and Management
  - Creating, cloning, and customizing virtual machines.

- VM hardware configuration and snapshots.
- Resource Allocation and Performance Optimization
  - Configuring CPU and memory resource pools.
  - Optimizing storage with VMFS, NFS, and iSCSI.
  - Performance tuning strategies.
- Virtual Network and Storage Configuration
  - Configuring vSphere Distributed Switch vDS.
  - vSAN and datastore configurations.
  - Network I/O control.

### Day 3: VMware High Availability HA and Fault Tolerance FT

- Implementing VMware High Availability HA
  - Configuring HA for VM failover and fault tolerance.
  - Admission control and resource allocation policies in HA clusters.
  - HA troubleshooting and monitoring.
- VMware Fault Tolerance FT for Mission-Critical Applications
  - Understanding FT principles and configuring FT for critical VMs.
  - FT logging, failover procedures, and recovery strategies.
- Cluster Management and Distributed Resource Scheduler DRS
  - Setting up and configuring VMware clusters.
  - Implementing DRS for automated load balancing.
  - Managing cluster resources for optimal performance.

### Day 4: VMware Security, Compliance, and Disaster Recovery

- Securing VMware Environments
  - Hardening ESXi hosts and securing vCenter Server.
  - Role-based access control RBAC and user management.
  - Network security best practices: firewalls, VLANs, and encryption.
- Compliance and Auditing in VMware
  - Implementing security and compliance policies.
  - Auditing VMware environments for compliance with industry standards.
  - Using vSphere logs for troubleshooting and security audits.
- Disaster Recovery Planning with VMware
  - Implementing VMware Site Recovery Manager SRM.
  - Backup and restore strategies for VMware environments.
  - Planning for business continuity and testing disaster recovery plans.

### Day 5: Advanced VMware Administration, Monitoring, and Automation

- Advanced vCenter Server Administration
  - vCenter Server deployment and advanced configuration.
  - Managing multiple vCenter Servers and linked mode.
  - High availability for vCenter Server.
- VMware Monitoring and Troubleshooting
  - Using vRealize Operations for performance monitoring.
  - Log management and integration with third-party monitoring tools.
  - Troubleshooting common VMware issues storage, network, vMotion failures.
- Automation with VMware PowerCLI

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- Introduction to VMware PowerCLI for automating tasks.
- Using PowerCLI for VM provisioning, configuration, and management.
- Automating common administrative tasks and reporting.
- Hands-On Lab and Final Review
  - Review of key concepts and advanced configurations.
  - Hands-on lab: Configuring VMware HA, FT, DRS, and performance optimization.
  - Q&A session and troubleshooting scenarios.





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