

Advanced VMware Training Course

Paris (France)

6 - 10 January 2025

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Code: IT28 From: 6 - 10 January 2025 City: Paris (France) Fees: 5100 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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