

## VMWARE VSPHERE: ADVANCED ADMINISTRATION

*"Optimize, Secure, and Scale Enterprise Virtual Infrastructure with Advanced vSphere Skills"*

### Schedule

Date	Venue	Fees (Face-to-Face)
21 - 25 Jun 2026	Riyadh - KSA	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

### Introduction

VMware vSphere remains the industry-leading virtualization platform for building and managing secure, high-performance private and hybrid cloud infrastructures. Advanced administration of vSphere environments is essential for ensuring availability, scalability, performance optimization, and operational resilience in enterprise data centers.

This intensive 5-day course is designed for experienced virtualization professionals who want to deepen their expertise in advanced vSphere administration. The program focuses on advanced configuration, performance tuning, security hardening, lifecycle management, automation, and troubleshooting, enabling participants to manage complex VMware environments with confidence.

### Objectives

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

- Configure and manage advanced vSphere features and components
- Optimize performance of ESXi hosts, virtual machines, and storage
- Implement advanced networking and storage configurations
- Enhance security and hardening of vSphere environments
- Perform lifecycle management, upgrades, and patching
- Troubleshoot complex vSphere issues effectively
- Apply automation and best practices for large-scale environments

## Why Attend

- Gain advanced skills for managing enterprise VMware environments
- Learn best practices for performance optimization and security
- Improve operational reliability and infrastructure resilience
- Enhance troubleshooting and problem-resolution capabilities
- Prepare for advanced VMware administration roles

## Target Audience

This program is designed for:

- VMware administrators and virtualization engineers
- Data center and infrastructure engineers
- Cloud and systems engineers managing VMware environments
- IT professionals responsible for enterprise virtualization platforms
- Professionals seeking advanced VMware technical expertise

## Individual Benefits

Key competencies that will be developed include:

- Advanced vSphere configuration and management skills
- Expertise in performance tuning and capacity planning
- Improved security and compliance management capabilities
- Strong troubleshooting and diagnostic skills
- Practical experience with automation and lifecycle tools

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved availability and performance of virtual infrastructure
- Enhanced security and compliance of VMware environments
- Reduced downtime through proactive management
- Efficient infrastructure utilization and scalability
- Strong internal capability for managing advanced virtualization platforms

## Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - Deep dive into advanced vSphere architecture, features, and best practices
- Case Studies - Real-world enterprise vSphere implementation scenarios
- Workshops - Hands-on labs for advanced configuration, tuning, and troubleshooting
- Peer Exchange - Group discussions on operational challenges and solutions
- Tools - vCenter Server, ESXi tools, lifecycle manager, automation utilities

## Course Outline

### Detailed 5-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

#### Day 1: Advanced vSphere Architecture and Management

##### Module 1: vSphere Architecture Review (07:30 – 09:30)

- Advanced vSphere components and services
- ESXi host architecture and resource management
- vCenter Server advanced configurations

##### Module 2: Cluster Design and Availability (09:45 – 11:15)

- vSphere HA and DRS advanced settings
- Fault tolerance and availability planning
- Cluster scalability considerations

##### Module 3: Resource Management and Performance (11:30 – 01:00)

- CPU, memory, and storage optimization
- Performance metrics and analysis
- Capacity planning techniques

##### Module 4: Hands-on Advanced Labs (02:00 – 03:30)

- Cluster tuning and performance optimization

#### Day 2: Advanced Storage Management

- vSAN architecture and advanced configuration
- Storage policies and performance tuning
- Multipathing and storage troubleshooting
- Storage lifecycle management

#### Day 3: Advanced Networking

- vSphere distributed switches
- Network I/O control and traffic shaping
- NSX overview and integration concepts
- Network security and segmentation

#### Day 4: Security, Automation, and Lifecycle Management

- vSphere security hardening and compliance
- Identity, access control, and certificates
- Lifecycle Manager (LCM) and patching
- Automation using PowerCLI

#### Day 5: Advanced Troubleshooting and Best Practices

- Systematic troubleshooting methodology
- Performance bottlenecks and root cause analysis
- Disaster recovery and backup integration
- Best practices and future trends in VMware virtualization

## Certification

Participants will receive a Certificate of Completion in VMware vSphere: Advanced Administration, validating their expertise in advanced configuration, optimization, security, and management of VMware vSphere environments in enterprise data centers.

## Why Choose MAWA Events

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