



Information Technology

The VMware vSphere 8.x Professional (2V0-21.23)

Course Introduction

The VMware vSphere 8.x Professional (2V0-21.23) training course is structured to cover the essential aspects of managing and deploying VMware vSphere infrastructure, focusing on both VMware ESXi 8 and VMware vCenter 8. This course provides participants with the skills necessary to administer a vSphere environment and serves as a foundation for advanced VMware technologies in the software-defined data center.

Target Audience

System engineers and administrators involved in the administration of VMware vSphere solutions.

This comprehensive course ensures participants are well-equipped to install, configure, and manage VMware vSphere 8 environments effectively, laying a strong foundation for further VMware certifications and advanced system administration skills.

Learning Objectives

- Gain comprehensive knowledge of VMware vSphere 8.0:
- Understand the installation, configuration, and management processes for VMware vSphere 8.0.

Install and configure ESXi hosts:

- Learn how to install and configure VMware ESXi 8.0 hosts for optimal performance and security.
- Deploy and configure vCenter Server Appliance:
- Successfully deploy vCenter and configure it to manage ESXi hosts and other vSphere infrastructure components.

• Utilize the vSphere Client:

 Use the vSphere Client to create vCenter inventory, assign roles, and manage permissions for vCenter users.

• Configure virtual networks:

- Develop virtual networks using both vSphere standard switches and distributed switches.
- Create and manage datastores:
- Set up and manage datastores using various storage technologies supported by vSphere, such as VMFS, NFS, and iSCSI.
- Create and manage virtual machines (VMs):
- Deploy virtual machines, manage VM templates, clones, and snapshots using the vSphere Client.
- Create and manage content libraries:
- Develop content libraries to streamline the management of VM templates and VM deployments across environments.
- Manage VM resource allocation:
- Allocate CPU, memory, and storage resources effectively for virtual machines.
- Migrate VMs using vMotion and Storage vMotion:
- Perform live migrations of virtual machines and their storage without downtime using vSphere vMotion and Storage vMotion.
- Configure vSphere Clusters:
- Create and manage vSphere clusters with High Availability (HA) and Distributed Resource Scheduler (DRS) features enabled.
- Manage the vSphere lifecycle:
- Ensure the vSphere environment is up to date by managing vCenter, ESXi hosts, and virtual machines using vSphere Lifecycle Manager.

Course Outline

• Day 01

vSphere and Virtualization Overview

- Basic concepts of virtualization
- Role of vSphere in software-defined data centers and cloud infrastructure
- User interfaces for accessing vSphere
- Interaction of vSphere with CPUs, memory, networks, storage, and GPUs

Installing and Configuring ESXi

- Installation of ESXi hosts
- Best practices for ESXi user accounts
- Configuration of ESXi host settings using DCUI and VMware Host Client

• Day 02

Deploying and Configuring vCenter

- ESXi host communication with vCenter
- Deployment of vCenter Server Appliance
- Configuration of vCenter settings
- License management using vSphere Client
- Organization of vCenter inventory objects
- vCenter permissions application
- Viewing vCenter logs and events

Configuring vSphere Networking

- Configuration of standard and distributed switches
- Networking policies for standard and distributed switches
- Differences between standard and distributed switches

Day 03

Configuring vSphere Storage

- Overview of vSphere storage technologies
- Types of vSphere datastores
- Fibre Channel and iSCSI storage configuration
- Creation and management of VMFS and NFS datastores

Deploying Virtual Machines

- Creation and provisioning of virtual machines (VMs)
- Importance and installation of VMware Tools
- VM templates, clones, and content libraries
- Deployment of VMs from templates and libraries
- VM modification, including resource adjustments

• Day 04

Managing Virtual Machines

- VM migration using vSphere vMotion and Storage vMotion
- Enhanced vMotion Compatibility (EVC)
- VM snapshots management
- · Resource allocation and competition among VMs

Deploying and Configuring vSphere Clusters

- Creation of vSphere clusters with Distributed Resource Scheduler (DRS) and High Availability (HA)
- Monitoring and configuring vSphere DRS and HA clusters
- Failover management using vSphere HA
- Use cases for Fault Tolerance and network redundancy in HA clusters

Day 05

Managing the vSphere Lifecycle

- Enabling and configuring vSphere Lifecycle Manager
- vCenter Update Planner and prechecks
- Baseline and image-based management of hosts
- Upgrading ESXi hosts, VMware Tools, and VM hardware using Lifecycle Manager

Product Alignment

- VMware ESXi 8.0
- VMware vCenter 8.0

Confirmed Sessions

FROM	то	DURATION	FEES	LOCATION
June 16, 2025	June 20, 2025	5 days	4950.00 \$	Azerbaijan - Baku
Sept. 8, 2025	Sept. 12, 2025	5 days	4250.00 \$	UAE - Dubai
Dec. 29, 2025	Jan. 2, 2026	5 days	4250.00 \$	UAE - Abu Dhabi

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