



Consulting and Training | Reach New Heights

Course Name

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

Sector Name

Information Technology

Document Type

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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.

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Target Audience

System engineers and administrators are 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.

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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.

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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

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Course Outline

✓ Day 02

Deploying and Configuring vCenter

- ✓ ESXi host communicates 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

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Course Outline

✓ 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

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Course Outline

✓ 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

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Course Outline

✓ 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

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Feb. 1, 2027	Feb. 5, 2027	5 days	4950.00 \$	Austria , Vienna
April 18, 2027	April 22, 2027	5 days	4250.00 \$	KSA , Riyadh
Sept. 14, 2026	Sept. 18, 2026	5 days	4250.00 \$	UAE , Dubai
Jan. 4, 2027	Jan. 8, 2027	5 days	4250.00 \$	UAE , Abu Dhabi

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