

VMware Learning

VMware vSphere Virtualization Skills: Workshop

Summary: - Formats: Instructor-Led Training with Demo & Hands-on-labs
- Length: 3 Days

Overview:

During this three-day course, you focus on VMware Virtualization Skills required for a Software Defined Data Center such as how to install ESXi Hypervisor, VM provisioning, deploy the resource, and how to manage VMs and underlying clusters. The concepts learned in this course should be transferable for users who need to plan and work to manage VMware Virtualized infrastructure.

Objectives: By the end of the course, you should be able to meet the following objectives:

- Describe virtualization, virtual machines, and VMware vSphere® components
- Describe the concepts of server, network, storage, and desktop virtualization
- Deploy, configure, clone, and manage virtual machines
- Use VMware vCenter Server™ performance charts to monitor virtual machine resource usage
- Use VMware vSphere® vApps™ to perform virtual machine resource management
- Perform vSphere vMotion and vSphere Storage vMotion
- Use VMware vSphere® Distributed Resource Scheduler™, vSphere HA, vSphere FT, vSphere Data Protection, and vSphere Replication to protect and optimize the performance of your virtual environment

Intended Audience: Platform operators who are responsible for managing VMware Virtualized infrastructure.

Prerequisites: Basic Computing

Course Outline:

Module 1: Course Introduction

- Introduction
- Importance
- Learner Objective
- References

Module 2: VMware Virtualization Overview

- Compare the components and concepts of traditional architecture and virtual architecture
- Identify the benefits of virtual architecture
- Describe the VMware virtualization infrastructure
- Describe vSphere products and features
- Describe inventory objects managed by vSphere
- Describe the main features of vCenter Server

Module 3: Virtual Machines

- Creating Virtual Machines
- Virtual Machine Hardware Deep Dive

Module 4: vCenter and vSphere client

- vCenter Server Introduction
- vCenter Deployment
- Managing vCenter Inventory
- vCenter Roles and Permissions

Module 5: Configure and Manage Virtual Network

- Introduction of vSphere Standard Switches
- VM Port Groups and
- Deploy and install VMKernel Port Groups
- Summary

Module 6: Configure and Manage Virtual Storage

- Storage Concepts
- iSCSI Storage
- VMFS Datastores
- NFS Datastores

Module 7: Virtual Machine Management Migration

- Creating Templates and Clones
- Creating Virtual Machine Snapshots
- vMotion Migration

Module 8: Resource Monitoring

- Resource Monitoring Concepts
- Monitoring Virtual Machine Performance
- Managing Tasks, Events, and Alarms

Module 9: Scalability and Business Continuity

- vSphere DRS
- vSphere HA
- vSphere FT
- vSphere Replication and vSphere Data Protection