Course WLC-VMW001: Installing and Managing vSphere 6.0

Five days, instructor-led

About this course

Virtualization is technology that lets you run different operating systems on the same server at the same time. It transforms our datacenters from fundamental to dynamic datacenters. By reducing our capital and operating costs, delivering highly available application at all times. Increasing our IT productivity, efficiency, agility and responsiveness. And building a Software-Defined Data Center.

Audience

System administrators or system engineers, IT professionals who are interested in building virtualize environment using VMware vSphere technology.

Prerequisites

IT Professionals who experienced on Microsoft Windows or Linux operating systems

At Course Completion

At the end of the course, students will be able to:

- Understand vSphere 6.0 Technology
- Describe and Understand Software-Defined Data Center
- Installing ESXi host and deploying virtual machine
- Deploy and manage vCenter Server
- Manage vSphere infrastructure
- Manage and configure virtual networks
- Manging virtual machines, templates, cloning and snapshots
- Understand content library
- Migrate virtual machines using vMotion
- Understand and deploy vSphere storage
- Understand and manage resource pools
- Deploying DRS Clusters, applying updates and basic troubleshooting.

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Course Outline

Module 1: Course Introduction
- Course Introduction and objectives
- What is Virtualization
- Benefits of Virtualizatrion

Module 2: Software-Defined Data Center
- What is software-defined data center?
- What is VMWare VSphere
- Install and Configure vSphere Client
- ESXi Overview

Module 3: Virtual Machine Creation
- Introduction to virtual machines and virtual machine hardware
- Working with virtual machines

Module 4: vCenter Server Solution
- What is vCenter Server architecture?
- Deploy and Managing vCenter Server Appliance
- Install and Configure vSphere Web Client
- Managing and Administering vCenter Server and licensing

Module 5: Managing and Administering Virtual Networks
- Managing standard switches
- Managing and Configuring standard switch properties
- Managing and Configuring virtual switch load-balance
- Configure and manage vSphere distributed switches

Module 6: Managing Virtual Storage Datastores
- Introduction to storage and storage devices
- What is iSCSI, NFS, and Fibre Channel?
- Managing VMFS datastores
- Introduction to Virtual SAN

Module 7: Managing Virtual Machine
- Cloning and Deploying Virtual Machines
- Managing Virtual Machines
- vMotion
- Managing Snapshots
- Creating and Managing vApps

Module 8: vSphere Monitoring
- What are virtual CPU and memory concepts
- Managing ResourcePools
- Optimizing CPU and Memory

Module 9: High Availability and Fault Tolerance
- HA architecture
- Managing HA Cluster
- Configuring HA advanced configurations
- What is Fault Tolerance?
- Configuring Fault Tolerance on virtual machines

Module 10: Managing Scalability
- What is vSphere DRS cluster?
- Managing and Configuring vSphere DRS cluster
- HA and DRS Configuration

Module 11: Update Management
- Update Manager for vSphere
- Installing vSphere Update
- Performing patch management baseline
- Scanning and remediate Esxi hosts