

Complete VMWare vSphere ESXi and vCenter Administration Course Syllabus

Module 1

- Introduction
- Course Syllabus
- Download Syllabus option

Module 2

- What is Virtualization?
- How Virtualization Works?
- Basic Virtualization Terms
- Benefits of Virtualization
- Virtualization Technology Companies
- Difference Between Virtualization and Cloud
- Quiz, handouts and homework

Module 3

- What is VMWare?
- VMWare Products (Player, ESXi, vSphere, etc.)
- Importance of VMWare
- Quiz, handouts and homework

Module 4

- Lab Design
- VMWare Online Lab - Virtualization 101
- Download and Install VMWare Player
- First VM on VMWare Player (Linux)
- Download and Install ESXi Server (Hypervisor)
- Configure ESXi Server
- Connect to ESXi and Explore vSphere Dashboard
- Quiz, handouts and homework

Module 5

- First VM on ESXi
- Install Linux OS
- VM Management
- Update ESXi hostname
- Install Windows on a VM
- Install VMWare Tools

- Review VMs and Modify Resources
- VM Snapshots
- Quiz, handouts and homework

Module 6

- Install 2nd ESXi Server
- What is vCenter?
- Downloading vCenter and Installation Options (Win32 UI or OVA)
- Install vCenter
- Accessing vCenter (Flash/HTML, SSH, Console, Admin Portal)
- vCenter Management Interface
- Create a Datacenter and Add ESXi Servers
- Managing hosts on vCenter
- Quiz, handouts and homework

Module 7

- vCenter Homepage
- Getting Started and Summary
- Monitors
- Configure, Permissions and Datacenters (Menu)
- Hosts & Clusters and VMs
- Other Menu Options
- Accessing vCenter through HTML5
- Quiz, handouts and homework

Module 8

- Migrating VM without VMWare cluster (Cold)
- vMotion
- VMWare Cluster
- High Availability - (Introduction)
- High Availability - Part 1 (Linux Installation)
- High Availability - Part 2 (Setup NFS)
- High Availability - Part 3 (Mount NFS and Migrate VMs)
- High Availability - Part 4 (Setup Cluster and Configure HA)
- Distributed Resource Scheduler (DRS)
- Sequence of Starting and Shutting VMWare vSphere Environment
- Datastore clusters
- Quiz, handouts and homework

Module 9

- VM Cloning
- VM Templates
- VM Export and Import (OVF)
- Organizing VMs
- Other Menu VM Options
- Fault Tolerance
- Quiz, handouts and homework

Module 10

- ESXi Command Line (CLI)
- VMWare vCenter Converter
- VMWare vRealize Operations
- VMWare vRealize Automation
- VMWare Horizon
- VMWare Community and Resources
- Bonus