

VMWare Infrastructure 3: Overview 3.5

SSV017 — 1 day —Instructor-led

Introduction

This hands-on training course introduces the most compelling features of VMware Infrastructure 3. This course demonstrates VMware Infrastructure 3 features capable of reducing your IT costs while improving efficiency, availability, flexibility, and manageability.

Audience

The course is designed for technical persons responsible for evaluating VMware ESX Server and VirtualCenter; including IT managers, system architects, and system administrators

At Course Completion

By the end of the course, you should be able to have an understanding of VMware Infrastructure 3 core features through introductory lectures and hands-on demonstration labs, including:

- Deploying virtual machines using VMware VirtualCenter
- Performing live migrations of virtual machines
- Configuring VMware ESX Server clusters to automatically balance virtual machine workloads
- Hierarchically allocating CPU and memory resources to specific business functions
- Using VMware VirtualCenter alarms to proactively monitor the virtual datacenter
- Ensuring high availability of applications

Prerequisites

System administration experience on Microsoft Windows® or Linux® operating systems

Course Outline

Module 1: Virtual Infrastructure Overview

- Define virtualization and the VMware Infrastructure
- Discuss server consolidation and virtual machines
- Learn to use the VMware VirtualCenter management interface
- View virtual network and storage components

Module 2: Create a Virtual Machine

- Create and use templates to deploy virtual machines
- Automate guest operation system customization

Module 3: CPU and Memory Resource Pools

- Hierarchically allocate CPU and memory resources
- Set VM priorities on CPU and memory resources

Module 4: Migrate Virtual Machines Using VMotion

- Migrate live virtual machines

Module 5: VMware Distributed Resource Scheduler (DRS) Clusters

- Configure a VMware DRS cluster and resource pools
- Configure VMware DRS cluster automation levels

Module 6: Monitoring Virtual Machine Performance

- Use VMware VirtualCenter graphs to monitor virtual machine performance
- Understand VMware ESX Server memory management mechanisms

Module 7: Performance Alarms

- Use VMware VirtualCenter alarms to monitor and proactively respond to VMware ESX Server and virtual machine state changes

Module 8: VMware High Availability (HA) Clusters

- Configure a VMware HA Cluster
- Configure VMware HA cluster options

Module 9: VMware Infrastructure 3 Product and Feature Overview

- Discuss how different VMware products and features working together should be able to reduce the costs and improve the efficiency, availability, flexibility, and manageability of your datacenter