

## Course Details

### Course 10215A: Implementing and Managing Microsoft Server Virtualization

Length: 5 Days

Published: September 21, 2012

Language(s): English, Chinese (Simplified)

Audience(s): IT Professionals

Level: 300

Technology: Windows Server 2008

Type: Course

Delivery Method: Instructor-led (classroom)

## Prerequisites

Before attending this course, students must have:

- Perform server administrator tasks responsible for building and maintaining a virtualization infrastructure.
- Work or consult for a midsize to enterprise-size organization.
- Have a basic understanding of server virtualization concepts related to Microsoft or other third-party virtualization technologies.
- Support production, development, testing, high availability, business continuity, staging, classroom, or hosting environments based upon Windows Server 2008 technology.
- Understand a Windows-based network, including Active Directory directory service.
- Understand storage technologies, such as Storage Area Network (SAN) including Internet small computer system interface (iSCSI), Fiber Channel, and Direct Attached Storage (DAS).
- Understand Windows Server 2008 failover clustering.

## Course Outline

### Module 1: Evaluating and Planning for Virtualization

- Overview of Microsoft Virtualization
- Overview of Microsoft Virtualization
- Evaluating the Current Environment for Virtualization
- Evaluating the Current Environment for Virtualization

### Module 3: Creating and Configuring Virtual Hard Disks and Virtual Machines

- Creating and Configuring Virtual Hard Disks
- Creating and Configuring Virtual Machines
- Managing Virtual Machine Snapshots
- Working with the Virtual Machine Connection Application

### Module 2: Installing and Configuring the Hyper-V Server Role

- Installing the Hyper-V Server Role
- Configuring Hyper-V Settings and Virtual Networks

### Module 4: Integrating System Center Virtual Machine Manager with Microsoft Hyper-V Server 2008 R2

- Planning for Integration of System Center Virtual Machine Manager
- Installing the VMM Server and Administrator Console
- Managing Hosts and Host Groups

## Module 5: Creating and Deploying Virtual Machines Using System Center Virtual Machine Manager 2008 R2

- Creating a New Virtual Machine Using VMM 2008 R2
- Converting a Physical Server to a Virtual Machine
- Converting and Migrating Virtual Machines

## Module 7: Configuring and Managing the VMM Library

- Overview of the VMM Library
- Managing Profiles and Templates
- Designing Fault Tolerance for the VMM Library

## Module 9: Implementing High Availability for Server Virtualization

- Overview of Failover Clustering
- Implementing Failover Clustering with Hyper-V
- Implementing High Availability with VMM 2008 R2

## Module 11: Monitoring and Reporting Virtualization

- Monitoring Jobs in VMM 2008 R2
- Integrating System Center Operations Manager with VMM 2008 R2
- Configuring Performance and Resource Optimization

## Module 13: Desktop Virtualization Using Remote Desktop Services

- Overview of Remote Desktop Services
- Implementing the Remote Desktop Session Host
- Implementing Remote Desktop Connection Broker
- Implementing the Remote Desktop Connection Virtualization Host

## Module 6: Managing Virtual Machines Using Virtual Machine Manager 2008

- Overview of VMM Management Tasks
- Creating and Managing Checkpoints

## Module 8: Configuring User Roles and the Virtual Machine Manager Self-Service Portal

- Configuring User Roles
- Installing and Configuring the VMM Self-Service Portal

## Module 10: Maintaining Software Updates Using the Offline Virtual Machine Servicing Tool

- Overview of the Offline Virtual Machine Servicing Tool
- Configuring WSUS and the Offline Virtual Machine Servicing Tool

## Module 12: Backup and Restore Strategies for Virtual Machines

- Overview of Backup and Restore Options for Virtual Machines and the VMM Database
- Implementing Data Protection Manager for Backing Up the VMM Infrastructure

## Module 14: Extending Remote Desktop Services Outside the Organization

- Configuring the Remote Desktop Gateway
- Configuring Remote Desktop Web Access