Deploying and Managing System Center Virtual Machine Manager

Course Summary

Description

This course teaches students how to implement a Microsoft System Center Virtual Machine Manager V2 solution in an organization. The course also discusses how to install, configure, and deploy VMM.

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

- Identify installation prerequisites and requirements for VMM, select secure settings for VMM installations; and install VMM management packs.
- Describe prerequisites for installing the Administrator Console; configure the
- Windows Firewall for the VMM Administrator Console; and configure managed hosts.
- Describe prerequisites for the VMM Self-Service Portal; configure IIS to support the Self-Service Portal; and install the Self-Service Portal. \
- Configure host server hardware to support VMs.
- Add VM hosts to VMM; install the VMM agent; add VMWare servers to VMM; and create filters.
- Configure delegated administration; set host or group permissions; and configure VMM settings to support a test environment.
- Configure access to the VMM Self-Service Portal; configure quotas on the VMM
- Self-Service Portal; and self-provision VMs using the VMM Self-Service Portal.
- Add a VMM library including library shares and library servers and manage the contents of VMM library shares.
- Deploy VMs using multiple methods; and use Intelligent Placement to deploy VMs.
- Identify considerations for SAN VM migrations; perform a Quick Migration; and use Intelligent Placement to move a VM.
- Convert a physical computer to a VM.
- Convert other VM formats to Hyper-V VMs using VMM.
- Describe considerations for configuring host clustering and describe procedures for configuring host clustering.
- Describe considerations for configuring guest clustering and describe procedures for configuring guest clustering.
- Identify scenarios where VMM Checkpoints may be used to meet operational requirements and create a VM Checkpoint.
- Describe considerations for patch management using System Center
- Configuration Manager (SCCM) and deploy patches using WSUS.
- Describe and configure SCOM reporting.
- Use SCOM to select potential virtualization targets based on workload and performance characteristics.
- Describe considerations for monitoring host server utilization; measure and analyze host server utilization; and identify important considerations in growth planning.
- Monitor and manage the progress of VMM jobs.
- Locate failed jobs and recover failed jobs.

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Course Summary (cont'd)

Topics

- Installing System Center Virtual Machine Manager
- Configuring VM Hardware, Hosts, and User Roles
- Configuring the VMM Self-Service Portal and Library
- Deploying and Managing VMs
- Converting from Physical or Virtual Platforms
- Deploying Highly Available VMs
- Managing Virtual Machine Checkpoints and Updates
- Implementing Monitoring and Reporting
- Monitoring and Troubleshooting Jobs

Audience

This course is designed fro Consultants or Integrators planning on doing Enterprise VMM implementations and advanced VMM administrators.

Prerequisites

Before attending this course, students must have technical knowledge and skills in the following areas:

- Windows Server 2000/2003 System Administration
- Basic understanding of System Center Virtual Machine Manager (VMM) (optional)
- Server Virtualization using Virtual Server 2005, Virtual PC, or VMWare
- Operating knowledge of System Center Operations Manager 2007

Duration

Three days

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Course Outline

I. Installing System Center Virtual Machine Manager
 A. Installing System Center Virtual Machine Manager Server Components
 B. Installing the VMM Administrator Console
 C. Installing the VMM Self-Service Portal

II. Configuring VM Hardware, Hosts, and User Roles
 A. Adding Hosts to VMM
 B. Configuring Hardware
 C. Configuring VMM Settings
 D. Managing VMM Security

III. Configuring the VMM Self-Service Portal and Library
 A. Configuring the VMM Self-Service Portal
 B. Maintaining a VMM Library
 C. Managing Library Files

IV. Deploying and Managing VMs
 A. Deploying VMs
 B. Moving VMs Between Hosts

V. Converting from Physical or Virtual Platforms
 A. Converting Physical Computers to Virtual Machines
 B. Migrating Virtual Machines to Hyper-V

VI. Deploying Highly Available VMs
 A. Introducing Virtual Machine High Availability
 B. Deploying Host Clustering
 C. Deploying Guest Clustering

VII. Managing Virtual Machine Checkpoints and Updates
 A. Managing Virtual Machine Checkpoints
 B. Managing Virtual Machine Updates

VIII. Implementing Monitoring and Reporting
 A. Integrating System Center Operations Manager
 B. Performance and Resource Optimization
 C. Planning and Managing Hyper-V

IX. Monitoring and Troubleshooting Jobs
 A. Monitoring Jobs
 B. Troubleshooting and Repairing Jobs