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50374: Microsoft Server Virtualization and Management for experienced VMWare IT Pro

Duration: 3 Days

Course Outline

Module 1: Course Orientation

This module presents a detailed view of the course content, lab scenario, and lab setup.

Lessons

- Review course modules
- Review the lab scenario
- Review the lab setup

After completing this module, students will be able to:

- Understand the course structure
- Understand the course lab scenario and setup

Module 2: Microsoft Hyper-V and System Center Comparison to vSphere and vCenter

This module presents a detailed view of Microsoft virtualization and management technology, and differentiates between Microsoft and VMware terminology and technology solutions.

Lessons

- Understanding Microsoft Virtualization Solutions
- Differentiating Microsoft and VMware Terminology and Solutions
- Microsoft Server Virtualization Deployment Options
- Microsoft Server Virtualization Architecture Solutions
- Reviewing the System Center Suite
- Understanding Licensing

Lab : Configuring Network and Storage for a Hyper-V R2 Failover Cluster Lab : Creating and Configuring a Two-Node Hyper-V R2 Host-Based Failover Cluster Lab : Configuration of System Center VMM 2008 R2

After completing this module, students will be able to:

- Understand and contrast Microsoft server virtualization and management terminology and solutions with VMware vSphere and vCenter
- Understand Windows Server 2008 R2 with Hyper-V and System Center Suite features and functionality to design dynamic and robust end-to-end server virtualization and management solutions

Module 3: Managing the Virtualized Server Infrastructure

This module will show students how to design a System Center-based management environment to support a heterogeneous virtualization infrastructure.

Lessons

- Managing Physical and Virtual Infrastructures using the System Center Suite
- Monitoring and Managing a Heterogeneous Virtualization Infrastructure
- Designing a Business Continuity Solution
- Designing a Backup and Recovery Solution with System Center Data Protection Manager 2010
- Performing Host and Offline Virtual Machine Updates

Lab : Managing Physical and Virtual Infrastructures Using System Center Virtual Machine Manager 2008 R2 (Heterogeneous Management Segment Recorded)
Lab : Creating Templates for Automated Deployment of Server Roles
Lab : Managing VMotion and Live Migration using System Center Virtual Machine Manager 2008 R2 (VMotion Management Segment Recorded)
Lab : Configuring and Performing Updates of Offline Virtual Machines and Templates
Lab : Implementing a Backup and Recovery Solution using System Center Data Protection Manager 2010 (ESX VM Backup and Recovery Segment Recorded)
Lab : Configuring and Using System Center Operations Manager 2008 R2 with PRO (Veeam nWorks Monitoring Segment Recorded)

After completing this module, students will be able to:

- Design System Center Management in a Heterogeneous Virtualization Environment
- Design Dynamic Resource Management using System Center Operations Manager and Virtual Machine Manager
- Design Business Continuity using Failover Clustering
- Design a Backup and Recovery using System Center Data Protection Manager
- Implement Host and Offline Virtual Machine Updates using System Center Configuration Manager, Windows Software Update Services, and Virtual Machine Servicing Tool 3.0

Module 4: Microsoft Server Consolidation

This module will describe how to plan and design a Microsoft-based Server Consolidation project.

Lessons

- Envisioning and Planning
- Assessment
- Architecture and Design
- Network and Storage Configuration
- Security
- High-Availability
- Business Continuity

Lab : Performing a MAP 5.0 Assessment
Lab : Performing a V2V Migration from vSphere to Hyper-V R2 (Recorded)
Lab : Configuring Access Control using AZMAN in System Center Virtual Machine Manager 2008 R2
Lab : Implementing a Disaster Recovery site with Hyper-V R2 and System Center

After completing this module, students will be able to:

- Understand the phases of a Server Consolidation project
- Use the MAP 5.0 Solution Accelerator Toolkit to perform assessments
- Understand best practices for Server Consolidation architecture and design

Module 5: Automating Processes for Virtualization Management

This module will describe how to design a virtualization management automation infrastructure using System Center Opalis and/or Service Manager.

Lessons

- System Center Opalis
- System Center Service Manager Architecture

Lab : Implementing System Center Service Manager for Change Management, Ticketing, and Workflow

After completing this module, students will be able to:

- Integrate System Center Opalis in a Virtualization Management Infrastructure
- Integrate System Center Service Manager in a Virtualization Management Infrastructure

Module 6: Building the Foundation for a Private Cloud

This module will describe private cloud infrastructure fundamentals and how the System Center Virtual Machine Manager Self-Service Portal 2.0 enables Infrastructure-as-a-Service (IaaS).

Lessons

- Private Cloud Fundamentals
- System Center Virtual Machine Manager Self-Service Portal 2.0

Lab : Using System Center Virtual Machine Manager Self-Service Portal 2.0 (Recorded)

After completing this module, students will be able to:

- Understand the architecture and benefits of a private cloud infrastructure
- Understand how to integrate the System Center Virtual Machine Manager Self-Service Portal 2.0 to automate provisioning in a private cloud infrastructure.



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