



MS20409 - Server Virtualization with Windows Server Hyper-V and System Center

Microsoft - Microsoft Cloud - Virtualization and Cloud

Durata:

5 Days

Lingue:

Italiano

Certificazione:

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Course description

This five day course will provide you with the knowledge and skills required to design and implement Microsoft Server Virtualization solutions using Hyper-V and System Center. This course is intended for IT professionals who are responsible for designing, implementing, managing, and maintaining a virtualization infrastructure or are interested in learning about current Microsoft Virtualization technologies. The secondary audience for this course includes IT decision makers who will determine which virtualization product to implement in their data centers.

Course schedule

Module 1: Evaluating the Environment for Virtualization

- Overview of Microsoft Virtualization
- Overview of System Center 2012 R2 Components
- Evaluating Current Environment for Virtualization
- Extending Virtualization to the Cloud Environment

Lab : Evaluating the Environment for Virtualization

- Selecting the Appropriate Virtualization Method
- Assessing the Environment by Using MAP

Module 2: Installing and Configuring the Hyper-V Role

ITCore Group

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- Installing the Hyper-V Role
- Managing Hyper-V
- Configuring Hyper-V Settings
- Hyper-V Host Storage and Networking

Lab : Installing and Configuring the Hyper-V Role

- Installing the Hyper-V Server Role
- Configuring Hyper-V Settings
- Accessing and Managing Hyper-V Remotely

Module 3: Creating and Managing Virtual Hard Disks, Virtual Machines, and Checkpoints

- Creating and Configuring Virtual Hard Disks
- Creating and Configuring Virtual Machines
- Installing and Importing Virtual Machines
- Managing Virtual Machine Checkpoints
- Monitoring Hyper-V
- Designing Virtual Machines for Server Roles and Services

Lab : Creating and Managing Virtual Hard Disks and Virtual Machines

- Creating and Managing Virtual Hard Disks
- Creating and Managing Virtual Machines

Lab : Creating and Managing Checkpoints and Monitoring Hyper-V

- Importing Virtual Machines and Working with Checkpoints
- Monitoring Hyper-V

Module 4: Creating and Configuring Virtual Machine Networks

- Creating and Using Hyper-V Virtual Switches
- Advanced Hyper-V Networking Features
- Configuring and Using Hyper-V Network Virtualization

Lab : Creating and Using Hyper-V Virtual Switches

- Creating and Using Windows Server 2012 R2 Hyper-V Virtual Switches

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Lab : Creating and Using Advanced Virtual Switch Features

- Configuring and Using Advanced Virtual Switch Features

Lab : Configuring and Testing Hyper-V Network Virtualization

- Configuring Hyper-V Network Virtualization

Module 5: Virtual Machine Movement and Hyper-V Replica

- Providing High availability and Redundancy for Virtualization
- Implementing Virtual Machine Movement
- Implementing and Managing Hyper-V Replica

Lab : Moving Virtual Machine and Configuring Constrained Delegation

- Moving Hyper-V Storage and Virtual Machines

Lab : Configuring and Using Hyper-V Replica

- Configuring and Managing Hyper-V Replica

Module 6: Implementing Failover Clustering with Hyper-V

- Overview of Failover Clustering
- Configuring and Using Shared Storage
- Implementing and Managing Failover Clustering with Hyper-V

Lab : Implementing Failover Clustering with Hyper-V

- Creating a Hyper-V Failover Cluster
- Managing a Hyper-V Failover Cluster

Module 7: Installing and Configuring System Center 2012 R2 Virtual Machine Manager

- Integrating System Center and Server Virtualization
- Overview of VMM
- Installing VMM
- Adding Hosts and Managing Host Groups

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Lab : Installing and Configuring System Center 2012 R2 Virtual Machine Manager

- Installing and Configuring System Center 2012 R2 VMM
- Managing Hosts and Host Groups

Module 8: Managing the Networking and Storage Infrastructure in System Center 2012 R2 Virtual Machine Manager

- Managing Networking Infrastructure
- Managing Storage Infrastructure
- Managing Infrastructure Updates

Lab : Network Infrastructure Management

- Implementing a Network Infrastructure

Lab : Managing Infrastructure Storage

- Implementing a Storage Infrastructure

Lab : Infrastructure Updates Management

- Managing Infrastructure Updates

Module 9: Creating and Managing Virtual Machines by Using Microsoft System Center 2012 R2 Virtual Machine Manager

- Virtual Machine Management Tasks in VMM
- Creating, Cloning, and Converting Virtual Machines
- Overview of Virtual Machine Updating

Lab : Creating and Managing Virtual Machines by Using System Center 2012 R2 Virtual Machine Manager

- Creating a Virtual Machine and Modifying Its Properties
- Cloning a Virtual Machine

Module 10: Configuring and Managing the Microsoft System Center 2012 R2 Virtual Machine Manager Library and Library Objects

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- Overview of the Virtual Machine Manager Library
- Working With Profiles and Templates

Lab : Configuring and Managing the Microsoft System Center 2012 R2
Virtual Machine Manager Library and Library Objects

- Configuring and Managing the Virtual Machine Manager Library
- Creating and Managing Profiles and Templates

Module 11: Managing Clouds in Microsoft System Center 2012 R2 Virtual
Machine Manager

- Introduction to Clouds
- Creating and Managing a Cloud
- Working With User Roles in Virtual Machine Manager

Lab : Managing Clouds in Microsoft System Center 2012 R2 Virtual Machine
Manager

- Creating a Cloud
- Working With User Roles
- Deploying Virtual Machines to a Private Cloud

Module 12: Managing Services in Microsoft System Center 2012 R2 Virtual
Machine Manager and App Controller

- Understanding Services in VMM
- Creating and Managing Services in VMM
- Using App Controller

Lab : Managing Services in System Center 2012 R2 VMM and App Controller

- Creating a Service Template
- Deploying a Service and Updating a Service Template
- Configuring App Controller
- Deploying a Virtual Machine in App Controller

Module 13: Protecting and Monitoring Virtualization Infrastructure

- Overview of Backup and Restore Options for Virtual Machines

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- Protecting Virtualization Infrastructure by Using DPM
- Using Operations Manager for Monitoring and Reporting
- Integrating VMM with Operations Manager

Lab : Monitoring and Reporting Virtualization Infrastructure

- Implementing Microsoft System Center 2012 R2 Operations Manager Agents
- Configuring Operations Manager Monitoring Components
- Configuring Operations Manager Integration with System Center 2012 R2 Virtual Machine Manager (VMM)

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