



Course 20409B

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

Course Length : 40 Hours
Professional Series : 5 Days
Academic Series : 6 Weeks

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

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

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

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 and Managing Virtual Machines

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

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

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

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

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

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

Module 10: Configuring and Managing the System Center 2012 R2 Virtual Machine

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

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

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

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

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

Module 13: Protecting and Monitoring Virtualization Infrastructure

- Overview of Backup and Restore Options for Virtual Machines
- Protecting Virtualization Infrastructure by Using Data Protection Manager
- Using Operations Manager for Monitoring and Reporting
- Integrating VMM with Operations Manager