20417: Upgrading Your Skills to MCSA Windows Server 2012

Course Details

Course Outline

1. **Module 1: Installing and Configuring Windows Server 2012**
   - Installing Windows Server 2012 R2
   - Configuring Windows Server 2012 R2 and Windows Server 2012
   - Configuring Remote Management for Windows Server 2012 R2 and Windows Server 2012
   - Lab : Installing and Configuring Windows Server 2012 R2
   - Installing Windows Server 2012 R2 Server Core
   - Configuring a Computer Running a Server Core Installation of Windows Server 2012 R2
   - Configuring Remote Management for Servers Running Windows Server 2012 R2

2. **Module 2: Managing Windows Server 2012 by Using Windows PowerShell**
   - Overview of Windows PowerShell
   - Using Windows PowerShell to Manage AD DS
   - Managing Servers by Using Windows PowerShell
   - Lab : Managing Servers Running Windows Server 2012 by Using Windows PowerShell
   - Introduction to Windows PowerShell
   - Managing AD DS by Using Windows PowerShell
   - Managing Servers by Using Windows PowerShell

3. **Module 3: Managing Storage in Windows Server 2012**
   - Storage Features in Windows Server 2012
   - Configuring iSCSI Storage
   - Configuring Storage Spaces in Windows Server 2012
   - Configuring BranchCache in Windows Server 2012
   - Lab : Managing Storage on Servers Running Windows Server 2012
   - Configuring iSCSI Storage
   - Configuring a Redundant Storage Space
   - Lab : Implementing BranchCache
   - Performing Initial Configuration Tasks for BranchCache
   - Configuring BranchCache on the Branch Server

- Configuring BranchCache Client Computers
- Monitoring BranchCache

4. **Module 4: Implementing Network Services**

- Implementing DNS and DHCP Enhancements
- Implementing IPAM
- Managing IP Address Spaces with IPAM
- NAP Overview
- Implementing NAP
- Lab : Implementing Network Services
- Configuring New Features in DNS and DHCP
- Configuring IP Address Management
- Configuring NAP
- Verifying the NAP Deployment

5. **Module 5: Implementing Remote Access**

- Remote Access Overview
- Implementing DirectAccess by Using the Getting Started Wizard
- Implementing and Managing an Advanced DirectAccess Infrastructure
- Implementing VPN
- Lab : Implementing DirectAccess
- Configuring the DirectAccess Infrastructure
- Configuring the DirectAccess Clients
- Verifying the DirectAccess Configuration

6. **Module 6: Implementing Failover Clustering**

- Overview of Failover Clustering
- Implementing a Failover Cluster
- Configuring Highly-Available Applications and Services on a Failover Cluster
- Maintaining a Failover Cluster
- Implementing a Multisite Failover Cluster
- Lab : Implementing Failover Clustering
- Configuring a Failover Cluster
- Deploying and Configuring a Highly-Available File Server
- Validating the Deployment of the Highly-Available File Server
- Configuring Cluster-Aware Updating on the Failover Cluster

7. **Module 7: Implementing Hyper-V**

- Configuring Hyper-V Servers
- Configuring Hyper-V Storage
- Configuring Hyper-V Networking
- Configuring Hyper-V Virtual Machines
- Lab : Implementing Server Virtualization with Hyper-V
- Installing the Hyper-V Server Role
- Configuring Virtual Networking
- Creating and Configuring a Virtual Machine

8. **Module 8: Implementing Failover Clustering with Hyper-V**

- Overview of the Integration of Hyper-V Server 2012 with Failover Clustering
- Implementing Hyper-V Virtual Machines on Failover Clusters
- Implementing Windows Server 2012 Hyper-V Virtual Machine Movement
- Implementing Hyper-V Replica
- Managing Hyper-V Virtual Environments by Using Virtual Machine Manager
- Lab : Implementing Failover Clustering with Hyper-V
- Configuring Hyper-V Replicas
- Configuring a Failover Cluster for Hyper-V
- Configuring a Highly Available Virtual Machine

9. **Module 9: Implementing Secure Data Access for Users and Devices**

- Dynamic Access Control Overview
- Implementing DAC Components
- Implementing DAC for Access Control
- Implementing Access-Denied Assistance
- Implementing and Managing Work Folders
- Lab : Implementing Secure File Access
- Preparing for DAC Deployment
- Implementing DAC
- Validating and Remediating DAC
- Implementing Work Folders

10. **Module 10: Implementing Active Directory Domain Services**

- Deploying AD DS Domain Controllers
- Configuring AD DS Domain Controllers
- Implementing Service Accounts

- Implementing Group Policy in AD DS
- Overview of Windows Azure Active Directory
- Maintaining AD DS
- Lab : Implementing AD DS
- Deploying a Read-Only Domain Controller
- Implementing Service Accounts in AD DS
- Lab : Troubleshooting and Maintaining AD DS
- Troubleshooting Group Policy
- Maintaining AD DS

11. Module 11: Implementing AD FS

- Overview of AD FS
- Deploying AD FS
- Implementing AD FS for a Single Organization
- Deploying AD FS in a Business-to-Business Federation Scenario
- Implementing Web Application Proxy
- Implementing Workplace Join
- Lab : Implementing AD FS
- Installing and Configuring AD FS
- Configuring an Internal Application for AD FS
- Configuring AD FS for Federated Business Partner
- Implementing Web Application Proxy
- Performing a Workplace Join

12. Module 12: Monitoring and Maintaining Windows Server 2012

- Monitoring Windows Server 2012
- Implementing Windows Server Backup
- Implementing Server and Data Recovery
- Lab : Monitoring and Maintaining Windows Server 2012
- Configuring Centralized Monitoring for Servers Running Windows Server 2012
- Backing Up Servers Running Windows Server 2012
- Restoring Files by Using Windows Server Backup