



Course Content of MCSA 2012 - (Microsoft Certified Solutions Associate)

Total Duration of MCSA : 45 Days

Earning an MCSA: Windows Server 2012 certification will qualify you for a position as a network or computer systems administrator or a computer support specialist. Heard about the coming Windows Server 2012 R2 updates? Read the [FAQs](#) to find out how we are updating our certifications.

| Step | Title | Optional training | Required exam | Certification earned |
|------|---|-------------------|---------------------|----------------------|
| 1 | Installing and Configuring Windows Server 2012 | | 410 | |
| 2 | Administering Windows Server 2012 | | 411 | |
| 3 | Configuring Advanced Windows Server 2012 Services | | 412 | |

Exam 70-410 - Installing and Configuring Windows Server 2012

(Course 20410A Duration : 40 hrs)

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| | <p>Module 1: Deploying and Managing Windows Server 2012</p> <ul style="list-style-type: none"> • Windows Server 2012 Overview • Overview of Windows Server 2012 Management • Installing Windows Server 2012 • Post-Installation Configuration of Windows Server 2012 • Introduction to Windows PowerShell <p>Lab : Deploying and Managing Windows Server 2012</p> <ul style="list-style-type: none"> • Deploying Windows Server 2012 • Configuring Windows Server 2012 Server Core • Managing Servers • Using Windows PowerShell to Manage Servers | |
| | <p>Module 2: Introduction to Active Directory Domain Services</p> <ul style="list-style-type: none"> • Overview of AD DS • Overview of Domain Controllers • Installing a Domain Controller <p>Lab : Installing Domain Controllers</p> | |



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| | <ul style="list-style-type: none"> • Installing a Domain Controller • Installing a Domain Controller by Using IFM | |
| | <p>Module 3: Managing Active Directory Domain Services Objects</p> <ul style="list-style-type: none"> • Managing User Accounts • Managing Group Accounts • Managing Computer Accounts • Delegating Administration <p>Lab : Managing Active Directory Domain Services Objects</p> <ul style="list-style-type: none"> • Delegating Administration for a Branch Office • Creating and Configuring User Accounts in AD DS • Managing Computer Objects in AD DS | |
| | <p>Module 4: Automating Active Directory Domain Services Administration</p> <ul style="list-style-type: none"> • Using Command-line Tools for Administration • Using Windows PowerShell for Administration • Performing Bulk Operations with Windows PowerShell <p>Lab : Automating AD DS Administration by Using Windows PowerShell</p> <ul style="list-style-type: none"> • Creating User Accounts and Groups by Using Windows PowerShell • Using Windows PowerShell to Create User Accounts in Bulk • Using Windows PowerShell to Modify User Accounts in Bulk | |
| | <p>Module 5: Implementing IPv4</p> <ul style="list-style-type: none"> • Overview of TCP/IP • Understanding IPv4 Addressing • Subnetting and Supernetting • Configuring and Troubleshooting IPv4 <p>Lab : Implementing IPv4</p> <ul style="list-style-type: none"> • Identifying Appropriate Subnets • Troubleshooting IPv4 | |
| | <p>Module 6: Implementing DHCP</p> <ul style="list-style-type: none"> • Installing a DHCP Server Role • Configuring DHCP Scopes • Managing a DHCP Database • Securing and Monitoring DHCP | |



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| | <p>Lab : Implementing DHCP</p> <ul style="list-style-type: none"> • Implementing DHCP • Implementing a DHCP Relay (Optional Exercise) | |
| | <p>Module 7: Implementing DNS</p> <ul style="list-style-type: none"> • Name Resolution for Windows Client and Servers • Installing and Managing a DNS Server • Managing DNS Zones <p>Lab : Implementing DNS</p> <ul style="list-style-type: none"> • Installing and Configuring DNS • Creating Host Records in DNS • Managing the DNS Server Cache | |
| | <p>Module 8: Implementing IPv6</p> <ul style="list-style-type: none"> • Overview of IPv6 • IPv6 Addressing • Coexistence with IPv6 • IPv6 Transition Technologies <p>Lab : Implementing IPv6</p> <ul style="list-style-type: none"> • Configuring an IPv6 Network • Configuring an ISATAP Router | |
| | <p>Module 9: Implementing Local Storage</p> <ul style="list-style-type: none"> • Overview of Storage • Managing Disks and Volumes • Implementing Storage Spaces <p>Lab : Implementing Local Storage</p> <ul style="list-style-type: none"> • Installing and Configuring a New Disk • Resizing Volumes • Configuring a Redundant Storage Space | |
| | <p>Module 10: Implementing File and Print Services</p> <ul style="list-style-type: none"> • Securing Files and Folders • Protecting Shared Files and Folders Using Shadow Copies • Configuring Network Printing <p>Lab : Implementing File and Print Services</p> | |



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| | <ul style="list-style-type: none"> • Creating and Configuring a File Share • Configuring Shadow Copies • Creating and Configure a Printer Pool | |
| | <p>Module 11: Implementing Group Policy</p> <ul style="list-style-type: none"> • Overview of Group Policy • Group Policy Processing • Implementing a Central Store for Administrative Templates <p>Lab : Implementing Group Policy</p> <ul style="list-style-type: none"> • Configuring a Central Store • Creating GPOs | |
| | <p>Module 12: Securing Windows Servers Using Group Policy Objects</p> <ul style="list-style-type: none"> • Windows Security Overview • Configuring Security Settings • Restricting Software • Configuring Windows Firewall with Advanced Security <p>Lab : Lab A: Increasing Security for Server Resources</p> <ul style="list-style-type: none"> • Using Group Policy to Secure Member Servers • Auditing File System Access • Auditing Domain Logons <p>Lab : Lab B: Configuring AppLocker and Windows Firewall</p> <ul style="list-style-type: none"> • Configuring AppLocker Policies • Configuring Windows Firewall | |
| | <p>Module 13: Implementing Server Virtualization with Hyper-V</p> <ul style="list-style-type: none"> • Overview of Virtualization Technologies • Implementing Hyper-V • Managing Virtual Machine Storage • Managing Virtual Networks <p>Lab : Implementing Server Virtualization with Hyper-V</p> <ul style="list-style-type: none"> • Installing the Hyper-V Server Role • Configuring Virtual Networking • Creating and Configuring a Virtual Machine • Using Virtual Machine Snapshots | |



| Exam 70-411: Administering Windows Server 2012 | |
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| Duration: 24 hrs | |
| | <p>Module 1: Implementing a Group Policy Infrastructure</p> <ul style="list-style-type: none"> • Introducing Group Policy • Implementing and Administering GPOs • Managing Group Policy Scope • Group Policy Processing • Troubleshooting the Application of GPOs <p>Lab: Implementing a Group Policy Infrastructure</p> <ul style="list-style-type: none"> • Creating and Configuring Group Policy Objects • Managing Group Policy Scope • Verifying Group Policy Application • Managing Group Policy Objects |
| | <p>Module 2: Managing User Desktops with Group Policy</p> <ul style="list-style-type: none"> • Implementing Administrative Templates • Configuring Folder Redirection and Scripts • Configuring Group Policy Preferences • Managing Software with Group Policy <p>Lab: Managing User Desktops with Group Policy</p> <ul style="list-style-type: none"> • Implementing Settings by Using Group Policy Preferences • Configuring Folder Redirection |
| | <p>Module 3: Managing User and Service Accounts</p> <ul style="list-style-type: none"> • Automating User Account Creation • Configuring Password Policy and Account Lockout Settings • Creating and Administering User Accounts • Configuring User Object Attributes • Configuring Managed Service Accounts <p>Lab: Managing User and Service Accounts</p> <ul style="list-style-type: none"> • Configuring Password Policy and Account Lockout Settings • Creating and Associating a Managed Service Account |
| | <p>Module 4: Maintaining Active Directory Domain Services</p> <ul style="list-style-type: none"> • Implementing Virtualized Domain Controllers • Implementing Read Only Domain Controllers |



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| | <ul style="list-style-type: none"> • Administering AD DS • Managing the AD DS Database <p>Lab: Maintaining Active Directory Domain Services</p> <ul style="list-style-type: none"> • Installing and Configuring a Read Only Domain Controller • Configuring AD DS Snapshots • Configuring the Active Directory Recycle Bin | |
| | <p>Module 5: Configuring and Troubleshooting DNS</p> <ul style="list-style-type: none"> • Installing the DNS Server Role • Configuring the DNS Server Role • Configuring DNS Zones • Configuring DNS Zone Transfers • Managing and Troubleshooting DNS <p>Lab: Configuring and Troubleshooting DNS</p> <ul style="list-style-type: none"> • Configuring DNS Resource Records • Configuring DNS Conditional Forwarding • Installing and Configuring DNS Zones • Managing and Troubleshooting DNS | |
| | <p>Module 6: Configuring and Troubleshooting Remote Access</p> <ul style="list-style-type: none"> • Configuring Network Access • Configuring VPN Access • Overview of Network Policies • Troubleshooting Routing and Remote Access • Configuring DirectAccess <p>Lab: Configuring and Troubleshooting Remote Access</p> <ul style="list-style-type: none"> • Configuring Remote Access • Configuring the DirectAccess Infrastructure • Configuring Direct Access Clients • Verifying the DirectAccess Configuration | |
| | <p>Module 7: Installing, Configuring, and Troubleshooting the Network Policy Server Role</p> <ul style="list-style-type: none"> • Installing and Configuring a Network Policy Server • Configuring RADIUS Clients and Servers • NPS Authentication Methods • Monitoring and Troubleshooting a Network Policy Server <p>Lab: Installing and Configuring a Network Policy Server</p> <ul style="list-style-type: none"> • Installing and Configuring NPS to Support RADIUS | |



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| | <ul style="list-style-type: none"> Configuring a RADIUS Client | |
| | <p>Module 8: Implementing Network Access Protection</p> <ul style="list-style-type: none"> Overview of Network Access Protection Overview of NAP Enforcement Processes Configuring NAP Monitoring and Troubleshooting NAP <p>Lab: Implementing Network Access Protection</p> <ul style="list-style-type: none"> Configuring NAP Components Configuring the Client Settings to Support NAP | |
| | <p>Module 9: Optimizing File Services</p> <ul style="list-style-type: none"> Overview of FSRM Using FSRM to Manage Quotas, File Screens, and Storage Reports Implementing Classification Management and File Management Tasks DFS Overview Configuring DFS Namespaces Configuring and Troubleshooting DFS Replication <p>Lab: Lab A: Configuring Quotas and File Screening by Using FSRM</p> <ul style="list-style-type: none"> Configuring FSRM Quotas Configuring File Screening <p>Lab: Lab B: Configuring DFS Namespaces and Replication</p> <ul style="list-style-type: none"> Installing the DFS Namespaces Server Role Configuring the DFS Role Service Configuring DFS Namespace Configuring DFS-R | |
| | <p>Module 10: Configuring Encryption and Advanced Auditing</p> <ul style="list-style-type: none"> Encrypting Network Files with EFS Configuring Advanced Auditing <p>Lab: Lab A: Configuring Encryption and Advanced Auditing</p> <ul style="list-style-type: none"> Encrypting and Recovering Files <p>Configuring Advanced Auditing</p> | |
| | <p>Module 11: Deploying and Maintaining Server Images</p> <ul style="list-style-type: none"> Overview of Windows Deployment Services Implementing Deployment with WDS Administering WDS <p>Lab: Deploying and Maintaining Server Images Using Windows Deployment Services</p> | |



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| | <ul style="list-style-type: none"> • Installing and Configuring Windows Deployment Services • Creating Operating System Images with WDS • Configuring Custom Computer Naming • Deploying Images with WDS | |
| | <p>Module 12: Deploying and Maintaining Server Images</p> <ul style="list-style-type: none"> • Overview of WSUS • Deploying Updates with WSUS <p>Lab: Implementing Update Management</p> <ul style="list-style-type: none"> • Implementing the WSUS Server Role • Configuring Update Settings • Approving and Deploying an Update by Using WSUS | |
| | <p>Module 13: Monitoring Windows Server 2012</p> <ul style="list-style-type: none"> • Monitoring Tools • Using Performance Monitor • Monitoring Event Logs <p>Lab: Monitoring Windows Server 2012</p> <ul style="list-style-type: none"> • Establishing a Performance Baseline • Identifying the Source of a Performance Problem • Viewing and Configuring Centralized Event Logs | |

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| <p>Exam 70-412: Configuring Advanced Windows Server 2012 Services</p> <p>Duration: 40 hrs</p> | | |
| | <p>Module 1: Implementing Advanced Network</p> <ul style="list-style-type: none"> • Configuring Advanced DHCP Features • Configuring Advanced DNS Settings • Implementing IP Address Management <p>Lab : Implementing Advanced Network Services</p> <ul style="list-style-type: none"> • Configuring Advanced DHCP Settings • Configuring Advanced DNS Settings • Configuring IP Address Management | |
| | <p>Module 2: Implementing Advanced File Services</p> <ol style="list-style-type: none"> 1. Configuring iSCSI Storage 2. Configuring BranchCache | |



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| | <p>3. Optimizing Storage Usage</p> <p>Lab : Implementing Advanced File Services</p> <ul style="list-style-type: none"> • Configuring iSCSI Storage • Configuring the File Classification Infrastructure <p>Lab : Implementing BranchCache</p> <ul style="list-style-type: none"> • Configuring the Main Office Servers for BranchCache • Configuring the Branch Office Servers for BranchCache • Configuring Client Computers for BranchCache • Monitoring BranchCache | |
| | <p>Module 3: Implementing Dynamic Access Control</p> <ul style="list-style-type: none"> • Overview of Dynamic Access Control • Planning for Dynamic Access Control • Deploying Dynamic Access Control <p>Lab : Implementing Dynamic Access Control</p> <ul style="list-style-type: none"> • Planning the Dynamic Access Control Implementation • Configuring User and Device Claims • Configuring Resource Property Definitions • Configuring Central Access Rules and Central Access Policies • Validating and Remediating Dynamic Access Control • Implementing New Resource Policies | |
| | <p>Module 4: Implementing Network Load Balancing</p> <ul style="list-style-type: none"> • Overview of NLB • Configuring an NLB Cluster • Planning an NLB Implementation <p>Lab : Implementing Network Load Balancing</p> <ul style="list-style-type: none"> • Implementing an NLB Cluster • Configuring and Managing an NLB Cluster • Validating High Availability for the NLB Cluster | |
| | <p>Module 5: Implementing Failover Clustering</p> <ul style="list-style-type: none"> • Overview of Failover Clustering • Implementing a Failover Cluster • Configuring Highly Available Applications and Services on a Failover Cluster • Maintaining a Failover Cluster • Implementing a Multi-Site Failover Cluster <p>Lab : Implementing Failover Clustering</p> <ul style="list-style-type: none"> • Configuring a Failover Cluster | |



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| | <ul style="list-style-type: none"> • Deploying and Configuring a Highly Available File Server • Validating the Deployment of a Highly Available File Server • Configuring Cluster-Aware Updating on the Failover Cluster | |
| | <p>Module 6: Implementing Failover Clustering with Hyper-V</p> <ul style="list-style-type: none"> • Overview of Integrating Hyper-V with Failover Clustering • Implementing Hyper-V Virtual Machines on Failover Clusters • Implementing Hyper-V Virtual Machine Movement • Managing Hyper-V Virtual Environments by Using VMM <p>Lab : Implementing Failover Clustering with Hyper-V</p> <ul style="list-style-type: none"> • Configuring Hyper-V Replicas • Configuring a Failover Cluster for Hyper-V • Configuring a Highly Available Virtual Machine | |
| | <p>Module 7: Implementing Disaster Recovery</p> <ul style="list-style-type: none"> • Overview of Disaster Recovery • Implementing Windows Server Backup • Implementing Server and Data Recovery <p>Lab : Implementing Windows Server Backup and Restore</p> <ul style="list-style-type: none"> • Backing Up Data on a Windows Server 2012 Server • Restoring Files Using Windows Server Backup • Implementing Microsoft Online Backup and Restore | |
| | <p>Module 8: Implementing Distributed Active Directory Domain Services Deployments</p> <ul style="list-style-type: none"> • Overview of Distributed AD DS Deployments • Implementing a Distributed AD DS Environment • Configuring AD DS Trusts <p>Lab : Implementing Complex AD DS Deployments</p> <ul style="list-style-type: none"> • Implementing Child Domains in AD DS • Implementing Forest Trusts | |
| | <p>Module 9: Implementing Active Directory Domain Services Sites and Replication</p> <ul style="list-style-type: none"> • Overview of AD DS Replication • Configuring AD DS Sites • Configuring and Monitoring AD DS Replication <p>Lab : Implementing AD DS Sites and Replication</p> <ul style="list-style-type: none"> • Modifying the Default Site • Creating Additional Sites and Subnets | |



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| | <ul style="list-style-type: none"> • Configuring AD DS Replication | |
| | <p>Module 10: Implementing Active Directory Certificate Services</p> <ul style="list-style-type: none"> • PKI Overview • Deploying CAs • Deploying and Managing Certificate Templates • Implementing Certificate Distribution and Revocation • Managing Certificate Recovery <p>Lab : Implementing Active Directory Certificate Services</p> <ul style="list-style-type: none"> • Deploying a Standalone Root CA • Deploying an Enterprise Subordinate CA • Configuring Certificate Templates • Configuring Certificate Enrollment • Configuring Certificate Revocation • Configuring Key Recovery | |
| | <p>Module 11: Implementing Active Directory Rights Management Services</p> <ul style="list-style-type: none"> • AD RMS Overview • Deploying and Managing an AD RMS Infrastructure • Configuring AD RMS Content Protection • Configuring External Access to AD RMS <p>Lab : Configuring AD RMS</p> <ul style="list-style-type: none"> • Installing and Configuring AD RMS • Configuring AD RMS Templates • Implementing the AD RMS Trust Policies • Verifying the AD RMS Deployment | |
| | <p>Module 12: Implementing Active Directory Federation Services</p> <ul style="list-style-type: none"> • Overview of AD FS • Deploying AD FS • Implementing AD FS for a Single Organization • Deploying AD FS in a B2B Federation Scenario <p>Lab : Implementing AD FS</p> <ul style="list-style-type: none"> • Configuring AD FS Prerequisites • Installing and Configuring AD FS • Configuring AD FS for a Single Organization • Configuring AD FS for Federated Business Partners | |