



Microsoft Certified Solution Associate | Windows Server 2016 Training

INNOVATIVE ACADEMY's Best Microsoft Training in Bangalore is designed so Innovative to help you clear the Microsoft Certified Solution Associate (MCSA) -Certification. You will gain excellent knowledge on Microsoft Windows Server 2016 and its services like configuration of Nano servers, Maintaining and managing storage, DAS, NAS, SAN, Hyper-V, ADS, DHCP, DNS and much more.

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Why Microsoft Certified Solution Associate Training and certification?

- The Microsoft Certified Solution Associate – exam is intended for individuals with experience designing distributed applications, virtualization of servers, Domain management on the platform.
- MCSA certification is rated one of the valued IT Certification as per Global Knowledge Study.
- MCSA is expected to reach 101B\$ by 2020 at 16% of CAGR as per Forrester.
- Average salary is \$80k for Microsoft Certified Solution Associate as per the major job portal.

About our Training:

Microsoft Certified Solution Associate Training from us is designed to provide expertise about Windows Server principles and its services. The classes are conducted by the Industrial experts for both classroom and online training sessions. The training is completely based on Microsoft Certified Solution Associate Exam.

Why choose Innovative Academy for your Microsoft Certified Solution Associate training?

- Experienced technical trainers
- Real Time and Hands on Experience Training
- On Time Course Completion & Superb satisfaction scores
- Comprehensive curriculum, Innovative & interactive Training
- High Pass Rate

Who can take this Training?

This MCSA Training is constructed for IT pro's who needs to pursue the career in Cloud Industry and become Microsoft certified solution associate.

This training is suitable for:

- Candidates who want Experience in deploying and migrating Windows Server 2016.
- Candidates from IT infrastructure background
- Candidates from development and testing background
- Candidates from virtualization environment
- Fresher's from IT infrastructure knowledge

Course Curriculum and Duration:

We provide both Class-room Training and Offline Training.

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Duration: 90Hrs.

Week days (Mon- Fri 2Hrs per day)

Weekend batches (Sat-Sun 4Hrs per day)

70-740: Installation, Storage & Compute With Windows Server 2016 Course Outline

1. Installing, upgrading, and migrating servers and workloads

- **Introducing Windows Server 2016**
- **Preparing and installing Nano Server and Server Core**
- **Preparing for upgrades and migrations**
- **Migrating server roles and workloads**
- **Windows Server activation models**
- **Lab : Installing and configuring Nano Server**
- **Installing Nano Server**
- **Completing post-installation tasks on Nano Server**
- **Performing remote management**

2. Configuring local storage

- **Managing disks in Windows Server**
- **Managing volumes in Windows Server**
- **Lab : Configuring local storage**
- **Creating and managing volumes**
- **Resizing volumes**
- **Managing virtual hard disks**

3. Implementing enterprise storage solutions

- **Overview of DAS, NAS, and SANs**
- **Comparing Fibre Channel, iSCSI, and Fibre Channel over Ethernet**
- **Understanding iSNS, DCB, and MPIO**
- **Configuring sharing in Windows Server 2016**
- **Lab : Planning and configuring storage technologies and components**
Planning storage requirements
- **Configuring iSCSI storage**
- **Configuring and managing the share infrastructure**

4. Implementing Storage Spaces and Data Deduplication

- **Implementing Storage Spaces**
- **Managing Storage Spaces**
- **Implementing Data Deduplication**
- **Lab : Implementing Storage Spaces**
- **Creating a Storage Space**
- **Lab : Implementing Data Deduplication**

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- Installing Data Deduplication
- Configuring Data Deduplication

5. Installing and configuring Hyper-V and virtual machines

- Overview of Hyper-V
- Installing Hyper-V
- Configuring storage on Hyper-V host servers
- Configuring networking on Hyper-V host servers
- Configuring Hyper-V virtual machines
- Managing virtual machines
- Lab : Installing and configuring Hyper-V
- Verify installation of the Hyper-V server role
- Configuring Hyper-V networks
- Creating and configuring a virtual machines
- Enable nested virtualization for a virtual machine

6. Deploying and managing Windows and Hyper-V containers

- Overview of containers in Windows Server 2016
- Deploying Windows Server and Hyper-V containers
- Installing, configuring, and managing containers by using Docker
- Lab : Installing and configuring containers
- Installing and configuring Windows Server containers by using Windows PowerShell
- Installing and configuring Windows Server containers by using Docker

7. Overview of high availability and disaster recovery

- Defining levels of availability Planning high availability and disaster recovery solutions with Hyper-V virtual machines
- Backing up and restoring by using Windows Server Backup
- High availability with failover clustering in Windows Server 2016
- Lab : Planning and implementing a high availability and disaster recovery solution
- Determining the appropriate high availability and disaster recovery solution
- Implementing storage migration
- Configuring Hyper-V replicas

8. Implementing failover clustering

- Planning a failover cluster
- Creating and configuring a new failover cluster
- Maintaining a failover cluster
- Troubleshooting a failover cluster
- Implementing site high availability with stretch clustering
- Lab : Implementing a failover clustering
- Creating a failover cluster
- Verifying quorum settings and adding a node
- Lab : Managing a failover cluster

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- Evicting a node and verifying quorum settings
- Changing the quorum from Disk Witness to File Share Witness, and defining node
- voting
- Verifying high availability

9. Implementing failover clustering with Windows Server 2016 Hyper-V

- Overview of the integration of Hyper-V Server 2016 with failover clustering
- Implementing Hyper-V VMs on failover clusters
- Key features for VMs in a clustered environment
- Lab : Implementing failover clustering with Windows Server 2016 Hyper-V
- Configure iSCSI storage
- Configuring a failover cluster for Hyper-V
- Configuring a highly available VM

10. Implementing Network Load Balancing

- Overview of NLB
- Configuring an NLB cluster
- Planning an NLB implementation
- Lab : Implementing NLB
- Implementing a Network Load Balancing (NLB) cluster
- Configuring and managing the NLB cluster
- Validating high availability for the NLB cluster

11. Creating and managing deployment images

- Introduction to deployment images
- Creating and managing deployment images by using MDT
- Virtual machine environments for different workloads
- Lab : Using MDT to deploy Windows Server 2016
- Configuring MDT
- Creating and deploying an image

12. Managing, monitoring, and maintaining virtual machine installations

- WSUS overview and deployment options
- Update management process with WSUS
- Overview of Windows PowerShell DSC
- Overview of Windows Server 2016 monitoring tools
- Using Performance Monitor
- Monitoring event logs
- Lab : Implementing WSUS and deploying updates
- Implementing WSUS
- Configuring update settings
- Approving and deploying an update by using WSUS
- Lab : Monitoring and troubleshooting Windows Server 2016
- Establishing a performance baseline
- Identifying the source of a performance problem
- Viewing and configuring centralized event logs

70-741: Networking With Windows Server 2016 Course Outline

1. Planning and implementing an IPv4 network

- Planning IPv4 addressing
- Configuring an IPv4 host
- Managing and troubleshooting IPv4 network connectivity
- Lab : Planning an IPv4 network
- Planning the IPv4 address assignments
- Lab : Implementing and troubleshooting an IPv4 network
- Verifying IPv4
- Troubleshooting IPv4

2. Implementing DHCP

- Overview of the DHCP server role
- Deploying DHCP
- Managing and troubleshooting DHCP
- Lab : Implementing DHCP
- Planning a DHCP server implementation
- Implementing the DHCP configuration
- Validating the DHCP implementation

3. Implementing IPv6

- Overview of IPv6 addressing
- Configuring an IPv6 host
- Implementing IPv6 and IPv4 coexistence
- Transitioning from IPv4 to IPv6
- Lab : Configuring and evaluating IPv6 transition technologies
- Reviewing the default IPv6 configuration
- Implementing DHCPv6
- Configuring network integration by using ISATAP
- Configuring native IPv6 connectivity
- Configuring 6to4 connectivity

4. Implementing DNS

- Implementing DNS servers
- Configuring zones in DNS
- Configuring name resolution between DNS zones
- Configuring DNS integration with Active Directory Domain Services (AD DS)
- Configuring advanced DNS settings
- Lab : Planning and implementing name resolution by using DNS
- Planning DNS name resolution
- Implementing DNS servers and zones
- Lab : Integrating DNS with Active Directory
- Integrating DNS with Active Directory
- Lab : Configuring advanced DNS settings

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- Configuring DNS policies
- Validating the DNS implementation
- Troubleshooting DNS

5. Implementing and managing IPAM

- Overview of IPAM
- Deploying IPAM
- Managing IP address spaces by using IPAM
- Lab : Implementing IPAM
- Installing the IPAM Server feature
- Provisioning the IPAM Server
- Managing IP address spaces by using IPAM
- After completing this module, students will be able to:
- Describe the IPAM functionality and components.
- Deploy IPAM.
- Manage IP address spaces by using IPAM.

6. Remote access in Windows Server 2016

- Overview of remote access
- Implementing the Web Application Proxy
- Lab : Implementing Web Application Proxy
- Implementing Web Application Proxy
- Validating the Web Application Proxy deployment

7. Implementing DirectAccess

- Overview of DirectAccess
- Implementing DirectAccess by using the Getting Started Wizard
- Implementing and managing an advanced DirectAccess infrastructure
- Lab : Implementing DirectAccess by using the Getting Started Wizard
- Verifying readiness for a DirectAccess deployment
- Configuring DirectAccess
- Validating the DirectAccess deployment
- Lab : Deploying an advanced DirectAccess solution
- Preparing the environment for DirectAccess
- Implementing the advanced DirectAccess infrastructure
- Validating the DirectAccess deployment

8. Implementing VPNs

- Planning VPNs
- Implementing VPNs
- Lab : Implementing VPN
- Implementing VPN
- Validating the VPN deployment
- Troubleshooting VPN access

9. Implementing networking for branch offices

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- Networking features and considerations for branch offices
- Implementing Distributed File System (DFS) for branch offices
- Implementing BranchCache for branch offices
- Lab : Implementing DFS for branch offices
- Implementing DFS
- Validating the deployment
- Lab : Implementing BranchCache
- Implementing BranchCache
- Validating the deployment

10. Configuring advanced networking features

- Overview of high performance networking features
- Configuring advanced Microsoft Hyper-V networking features
- Lab : Configuring advanced Hyper-V networking features
- Creating and using Hyper-V virtual switches
- Configuring and using the advanced features of a virtual switch

11. Implementing Software Defined Networking

- Overview of SDN.
- Implementing network virtualization
- Implementing Network Controller
- Lab : Deploying Network Controller
- Preparing to deploy Network Controller
- Deploying Network Controller

70-742: Identity With Windows Server 2016 Course Outline

1. Installing and configuring domain controllers

- Overview of AD DS
- Overview of AD DS domain controllers
- Deploying a domain controller
- Lab : Deploying and administering AD DS
- Deploying AD DS
- Deploying domain controllers by performing domain controller cloning
- Administering AD DS

2. Managing objects in AD DS

- Managing user accounts
- Managing groups in AD DS
- Managing computer objects in AD DS
- Using Windows PowerShell for AD DS administration
- Implementing and managing OUs
- Lab : Managing AD DS objects
- Creating and managing groups in AD DS
- Creating and configuring user accounts in AD DS

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- Managing computer objects in AD DS
- Lab : Administering AD DS
- Delegate administration for OUs
- Creating and modifying AD DS objects with Windows PowerShell

3. Advanced AD DS infrastructure management

- Overview of advanced AD DS deployments
- Deploying a distributed AD DS environment
- Configuring AD DS trusts
- Lab : Domain and trust management in AD DS
- Implementing forest trusts
- Implementing child domains in AD DS

4. Implementing and administering AD DS sites and replication

- Overview of AD DS replication
- Configuring AD DS sites
- Configuring and monitoring AD DS replication
- Lab : Implementing AD DS sites and replication
- Modifying the default site
- Creating additional sites and subnets
- Configuring AD DS replication
- Monitoring and troubleshooting AD DS replication

5. Implementing Group Policy

- Introducing Group Policy
- Implementing and administering GPOs
- Group Policy scope and Group Policy processing
- Troubleshooting the application of GPOs
- Lab : Implementing a Group Policy infrastructure
- Creating and configuring GPOs
- Managing GPO scope
- Lab : Troubleshooting Group Policy infrastructure
- Verify GPO application
- Troubleshooting GPOs

6. Managing user settings with Group Policy

- Implementing administrative templates
- Configuring Folder Redirection, software installation, and scripts
- Configuring Group Policy preferences
- Lab : Managing user settings with GPOs
- Using administrative templates to manage user settings
- Implement settings by using Group Policy preferences
- Configuring Folder Redirection
- Planning Group Policy (optional)

7. Securing Active Directory Domain Services

- Securing domain controllers
- Implementing account security
- Implementing audit authentication
- Configuring managed service accounts
- Lab : Securing AD DS
- Implementing security policies for accounts, passwords, and administrative groups
- Deploying and configuring an RODC
- Creating and associating a group MSA

8. Deploying and managing AD CS

- Deploying CAs
- Administering CAs
- Troubleshooting and maintaining CAs
- Lab : Deploying and configuring a two-tier CA hierarchy
- Deploying an offline root CA
- Deploying an enterprise subordinate CA

9. Deploying and managing certificates

- Deploying and managing certificate templates
- Managing certificate deployment, revocation, and recovery
- Using certificates in a business environment
- Implementing and managing smart cards
- Lab : Deploying and using certificates
- Configuring certificate templates
- Enrolling and using certificates
- Configuring and implementing key recovery

10. Implementing and administering AD FS

- Overview of AD FS
- AD FS requirements and planning
- Deploying and configuring AD FS
- Overview of Web Application Proxy
- Lab : Implementing AD FS
- Configuring AD FS prerequisites
- Installing and configuring AD FS
- Configuring an internal application for AD
- Configuring AD FS for federated business partners

11. Implementing and administering AD RMS

- Overview of AD RMS
- Deploying and managing an AD RMS infrastructure
- Configuring AD RMS content protection
- Lab : Implementing an AD RMS infrastructure
- Installing and configuring AD RMS
- Configuring AD RMS templates
- Using AD RMS on clients

12. Implementing AD DS synchronization with Microsoft Azure AD

- Planning and preparing for directory synchronization
- Implementing directory synchronization by using Azure AD Connect
- Managing identities with directory synchronization
- Lab : Configuring directory synchronization
- Preparing for directory synchronization
- Configuring directory synchronization
- Managing Active Directory users and groups

13. Monitoring, managing, and recovering AD DS

- Monitoring AD DS
- Managing the Active Directory database
- Active Directory backup and recovery options for AD DS and other identity and access solutions
- Lab : Recovering objects in AD DS
- Backing up and restoring AD DS
- Recovering objects in AD DS

