

MCSA

90 Hours

SYLLABUS

Unit 1 : Windows Server 2016 – (70 -740)

30 Hours

- Various storage options, including partition table formats, basic and dynamic disks, file systems, virtual hard disks, and drive hardware, and explain how to manage disks and volumes
- Enterprise storage solutions, and select the appropriate solution for a given situation
- Implement and manage Storage Spaces and Data Deduplication
- Install and configure Microsoft Hyper-V
- Introduction to .Net
- Deploy, configure, and manage Windows and Hyper-V containers
- High availability and disaster recovery technologies in Windows Server 2016
- Plan, create, and manage a failover cluster
- Implement failover clustering for Hyper-V virtual machines
- Configure a Network Load Balancing (NLB) cluster, and plan for an NLB implementation
- Create and manage deployment images
- Manage, monitor, and maintain virtual machine installations
- Prepare and install nano server, a server core installation, and plan a server upgrade and migration strategy

Classroom Live Labs

- Lab 1: Installing and Configuring Nano Server
- Lab 2: Configuring Local Storage
- Lab 3: Planning and Configuring Storage Technologies and Components
- Lab 4: Implementing Storage Spaces
- Lab 5: Implementing Data Deduplication
- Lab 6: Installing and Configuring Hyper-V
- Lab 7: Installing and Configuring Containers
- Lab 8: Planning and Implementing a High Availability and Disaster Recovery Solution
- Lab 9: Implementing a Failover Cluster
- Lab 10: Managing a Failover Cluster
- Lab 11: Implementing Failover Clustering with Hyper-V
- Lab 12: Implementing an NLB Cluster
- Lab 13: Using MDT to Deploy Windows Server 2016
- Lab 14: Implementing WSUS and Deploying Updates
- Lab 15: Monitoring and Troubleshooting Windows Server 2016

Unit 2 : Windows Server 2016 – (70 -741)

30 Hours

- Implement Dynamic Host Configuration Protocol (DHCP)
- Implement IPv6
- Implement Domain Name System (DNS) and manage Storage Spaces and Data Deduplication
- Implement and manage IP address management (IPAM)
- Plan for remote access
- Implement Direct Access
- Implement virtual private networks (vpns)
- Implement networking for branch offices
- Implement software defined networking
- Plan and implement an IPv4 network

Classroom Live Labs

- Lab 1: Planning an IPv4 Network
- Lab 2: Implementing and Troubleshooting an IPv4 network
- Lab 3: Implementing DHCP
- Lab 4: Configuring and Evaluating IPv6 Transition Technologies
- Lab 5: Planning and Implementing Name Resolution by Using DNS
- Lab 6: Integrating DNS with Active Directory
- Lab 7: Configuring Advanced DNS Settings
- Lab 8: Implementing IPAM
- Lab 9: Implementing Web Application Proxy
- Lab 10: Implementing DirectAccess by Using the Getting Started Wizard
- Lab 11: Deploying an Advanced DirectAccess Solution
- Lab 12: Implementing a VPN
- Lab 13: Implementing DFS for Branch Offices
- Lab 14: Implementing BranchCache
- Lab 15: Configuring Advanced Hyper-V Networking Features
- Lab 16: Deploying Network Controller

Unit 3 : Windows Server 2016 - (70 -742)

30 Hours

- Manage objects in AD DS by using graphical tools and Windows PowerShell
- Implement AD DS in complex environments
- Implement AD DS sites, and configure and manage replication
- Implement and manage Group Policy Objects (GPOs)
- Manage user settings by using GPOs
- Secure AD DS and user accounts
- Implement and manage a certificate authority (CA) hierarchy with AD CS
- Deploy and manage certificates
- Implement and administer AD FS
- Implement and administer Active Directory Rights Management Services (AD RMS)
- Implement synchronization between AD DS and Azure AD
- Install and configure domain controllers

Classroom Live Labs

- Lab 1: Deploying and Administering AD DS
- Lab 2: Managing AD DS objects
- Lab 3: Administering AD DS
- Lab 4: Domain and Trust Management in AD DS
- Lab 5: Implementing AD DS Sites and Replication
- Lab 6: Implementing a Group Policy Infrastructure
- Lab 7: Troubleshooting a Group Policy Infrastructure
- Lab 8: Managing User Settings with GPOs
- Lab 9: Securing AD DS
- Lab 10: Deploying and Configuring a Two-Tier CA Hierarchy
- Lab 11: Deploying and Using Certificates
- Lab 12: Implementing AD FS
- Lab 13: Implementing an AD RMS Infrastructure
- Lab 14: Configuring Directory Synchronization
- Lab 15: Recovering Objects in AD DS

Our Facilities



