Microsoft

**MCSA**

# MCSE COURSE SYLLABUS

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# MCSE Course Syllabus

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## Deploying and Managing Windows Server 2012 - 2016

- ❖ Windows Server 2012 - 2016 Overview
- ❖ Overview of Windows Server 2012 - 2016 Management
- ❖ Installing Windows Server 2012 - 2016
- ❖ Post-Installation Configuration of Windows Server 2012 - 2016
- ❖ Introduction to Windows PowerShell

## Introduction to Active Directory Domain Services

- ❖ Overview of AD DS
- ❖ Overview of Domain Controllers
- ❖ Installing a Domain Controller

## Managing Active Directory Domain Services Objects

- ❖ Managing User Accounts
- ❖ Managing Group Accounts
- ❖ Managing Computer Accounts
- ❖ Delegating Administration

**Automating Active Directory Domain Services Administration**

- ❖ Using Command-line Tools for Administration
- ❖ Using Windows PowerShell for Administration
- ❖ Performing Bulk Operations with Windows PowerShell

**Implementing IPv4**

- ❖ Overview of TCP/IP
- ❖ Understanding IPv4 Addressing
- ❖ Subnetting and Supernetting
- ❖ Configuring and Troubleshooting IPv4

**Implementing DHCP**

- ❖ Installing a DHCP Server Role
- ❖ Configuring DHCP Scopes
- ❖ Managing a DHCP Database
- ❖ Securing and Monitoring DHCP

**Implementing DNS**

- ❖ Name Resolution for Windows Client and Servers
- ❖ Installing and Managing a DNS Server
- ❖ Managing DNS Zones

**Implementing IPv6**

- ❖ Overview of IPv6
- ❖ IPv6 Addressing
- ❖ Coexistence with IPv6
- ❖ IPv6 Transition Technologies

**Implementing Local Storage**

- ❖ Overview of Storage
- ❖ Managing Disks and Volumes
- ❖ Implementing Storage Spaces

## Implementing File and Print Services

- ❖ Securing Files and Folders
- ❖ Protecting Shared Files and Folders Using Shadow Copies
- ❖ Configuring Network Printing

## Implementing Group Policy

- ❖ Overview of Group Policy
- ❖ Group Policy Processing
- ❖ Implementing a Central Store for Administrative Templates

## Securing Windows Servers Using Group Policy Objects

- ❖ Windows Security Overview
- ❖ Configuring Security Settings
- ❖ Restricting Software
- ❖ Configuring Windows Firewall with Advanced Security

## Implementing Server Virtualization with Hyper-V

- ❖ Overview of Virtualization Technologies
- ❖ Implementing Hyper-V
- ❖ Managing Virtual Machine Storage
- ❖ Managing Virtual Networks

## Administering windows server 2012 - 2016

## Deploying and Maintaining Server Images

- ❖ Overview of Windows Deployment Services
- ❖ Implementing Deployment with Windows Deployment Services
- ❖ Administering Windows Deployment Services

## Configuring and Troubleshooting Domain Name System

- ❖ Installing the DNS Server Role
- ❖ Configuring the DNS Server Role
- ❖ Configuring DNS Zones
- ❖ Configuring DNS Zone Transfers
- ❖ Managing and Troubleshooting DNS

## Maintaining Active Directory Domain Services

- ❖ Overview of AD DS
- ❖ Implementing Virtualized Domain Controllers
- ❖ Implementing RODC
- ❖ Administering AD DS
- ❖ Managing the AD DS Database

## Managing User and Service Accounts

- ❖ Automating User Account Management
- ❖ Configuring Password-Policy and User-Account Lockout Settings
- ❖ Configuring Managed Service Accounts

## Implementing a Group Policy Infrastructure

- ❖ Introducing Group Policy
- ❖ Implementing and Administering Group Policy Objects (GPOs)
- ❖ Group Policy Scope and Group Policy Processing
- ❖ Troubleshooting the Application of GPOs

## Managing User Desktops with Group Policy

- ❖ Implementing Administrative Templates
- ❖ Configuring Folder Redirection and Scripts
- ❖ Configuring Group Policy Preferences
- ❖ Managing Software with Group Policy

## Configuring and Troubleshooting Remote Access

- ❖ Configuring Network Access
- ❖ Configuring Virtual Private Network (VPN) Access
- ❖ Overview of Network Policies
- ❖ Troubleshooting Routing and Remote Access
- ❖ Configuring DirectAccess

## Installing, Configuring, and Troubleshooting the Network Policy Server Role

- ❖ Installing and Configuring a NPS
- ❖ Configuring Remote Authentication Dial-In User Service (RADIUS) Clients and Servers
- ❖ NPS Authentication Methods
- ❖ Monitoring and Troubleshooting a NPS

## Implementing Network Access Protection

- ❖ Overview of Network Access Protection
- ❖ Overview of NAP Enforcement Processes
- ❖ Configuring NAP
- ❖ Monitoring and Troubleshooting NAP

## Optimizing File Services

- ❖ Overview of FSRM
- ❖ Using FSRM to Manage Quotas, File Screens, and Storage Reports
- ❖ Implementing Classification and File Management Tasks
- ❖ Overview of Distributed File System (DFS)
- ❖ Configuring DFS Namespaces
- ❖ Configuring and Troubleshooting Distributed File System Replication (DFS-R)

## Configuring Encryption and Advanced Auditing

- ❖ Encrypting Files by Using Encrypting File System
- ❖ Configuring Advanced Auditing

## Implementing Update Management

- ❖ Overview of WSUS
- ❖ Deploying Updates with WSUS

## Monitoring Windows Server 2012 - 2016

- ❖ Monitoring Tools
- ❖ Using Performance Monitor
- ❖ Monitoring Event Logs

# Configuring Advanced Windows Server 2012 - 2016 Services

## Implementing Advanced Network Services

- ❖ Configuring Advanced DHCP Features
- ❖ Configuring Advanced DNS Settings
- ❖ Implementing IPAM

## Implementing Advanced File Services

- ❖ Configuring iSCSI Storage
- ❖ Configuring BranchCache
- ❖ Optimizing Storage Usage

## Implementing Dynamic Access Control

- ❖ Overview of Dynamic Access Control
- ❖ Planning for Dynamic Access Control
- ❖ Deploying Dynamic Access Control

## Implementing Distributed Active Directory Domain Services Deployments

- ❖ Overview of Distributed AD DS Deployments
- ❖ Deploying a Distributed AD DS Environment
- ❖ Configuring AD DS Trusts

## Implementing Active Directory Domain Services Sites and Replication

- ❖ Overview of AD DS Replication
- ❖ Configuring AD DS Sites
- ❖ Configuring and Monitoring AD DS Replication

## Implementing Active Directory Certificate Services

- ❖ PKI Overview
- ❖ Deploying CAs
- ❖ Deploying and Configuring CA Hierarchy
- ❖ Deploying and Managing Certificate Templates
- ❖ Implementing Certificate Distribution and Revocation
- ❖ Managing Certificate Recovery

**Implementing Active Directory Rights Management Services**

- ❖ AD RMS Overview
- ❖ Deploying and Managing an AD RMS Infrastructure
- ❖ Configuring AD RMS Content Protection
- ❖ Configuring External Access to AD RMS

**Implementing Active Directory Federation Services**

- ❖ Overview of AD FS
- ❖ Deploying AD FS
- ❖ Implementing AD FS for a Single Organization
- ❖ Deploying AD FS in a B2B Federation Scenario

**Implementing Network Load Balancing**

- ❖ Overview of NLB
- ❖ Configuring an NLB Cluster
- ❖ Planning an NLB Implementation

**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 Multi-Site Failover Cluster

## Implementing Failover Clustering with Hyper-V

- ❖ 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

## Implementing Disaster Recovery

- ❖ Overview of Disaster Recovery
- ❖ Implementing Windows Server Backup
- ❖ Implementing Server and Data Recovery

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