

MCSE Server 2016

MODULE 1:- MICROSOFT SERVER FUNDAMENTALS, WORKGROUP, DOMAIN, VMWARE WORKSTATION OVERVIEW

- What is Server
- Client and Server Operating System
- What is Workgroup and Domain
- How a Workgroup Environment is Created
- How a Domain Environment is Created
- Difference between Workgroup and Domain
- Types of Role in Server
- Overview of VMware Workstation
- Creation of Server in VMware Workstation

MODULE 2:- ACTIVE DIRECTORY (AD), DOMAIN CONTROLLER, USERS & GROUPS

- Understanding of Active Directory(AD) Service
- Understanding of Domain Name System(DNS) Service
- Check the Port Numbers related to Service
- Troubleshooting using Ping and Telnet
- Installing of Active Directory(AD) Service in Server
- Creation of Domain Controller(DC)
- Joining a PC to Domain Environment
- Checking health of Active Directory Service(AD)
- Understanding services of Active Directory(AD)
- Creation of Users & Group in Active Directory(AD)
- Adding Users in group in Active Directory(AD)

MODULE 3:- NTFS, ABE, FSRM, HOME FOLDER, SHADOW COPIES

- NTFS Permission(Share & Security)
- Configuring Read/Write/Modify & Special Permission
- Understanding Explicit & Inherited Permission
- Configuring Access Based Enumeration(ABE)
- Configuring Shadow Copies & Home Folder
- Installation of FSRM(File Server Resource Manager)
- Applying Soft & Hard Quota on Folder
- Applying File Screening on Folder

MODULE 4:- ORGANIZATIONAL UNIT (OU) & GROUP POLICY

- Need of Group Policy & How Group Policy Works
- User Policy & Computer Policy
- Default Domain Policy & Default Domain Controller Policy
- Group Policy Order and Precedence
- Configuring Recycle Bin Policy & Wallpaper Policy
- Configuring Audio Policy & Screen Saver Policy
- Benefits of Organization Unit(OU) & Creation of OU
- Blocking Inheritance & Enforce Policy
- Software Installation using Group Policy
- Group Policy Backup & Restore
- Prevent Policy Application using WMI Filter
- Domain Password Policy & Fine Grain Password Policy
- Configure Password Length, History & Complexity
- Account Lock Policy and Account Lock Troubleshooting
- Delegate access to User/Group for User Management
- Performing Mapped Drive using Group Policy
- Group Policy Troubleshooting steps

MODULE 5:- ADC, RODC, REPLICATIONS, SITE & SUBNET

- Need of Additional Domain Controller(ADC) & Creation of ADC
- Multi-Master Replication Between DC & ADC
- Understanding of RODC(Read Only Domain Controller)
- Replication Between DC & ADC
- Checking ADC when DC is down
- Creation of Site & Subnet
- Understanding of Replication Schedule
- Replication Between Domain Controllers(DC & ADC)
- Intra-Site & Inter-Site Replication
- Understanding of IFM(Install From Media)
- Working of KCC & Selection of Bridgehead Server

MODULE 6:- FSMO (FLEXIBLE SINGLE MASTER OPERATION) ROLES

- Importance of Flexible Single Master Operation (FSMO) Roles
- Understanding Forest level and Domain Level Roles
- Deep Dive into the working of each Role
- Perform Transfer of Schema Master, DNM Master
- Perform Transfer of RID , PDC, Infra Master Operations
- Impact on Domain when Role Holder DC is Down
- Perform FSMO Role Seizure
- Active Directory Database Partition
- Understanding of Schema & Configuration Partition
- Understanding of Domain & Application Partition

MODULE 7:- MULTI-DOMAIN /MULTI-FOREST ENVIRONMENT & TRUST, GROUPS AND GLOBAL CATALOG

- Need of Child Domain & Creation of Child Domain
- Understanding of Multi-Domain Environments
- Adding New Domain to Existing Forest
- Understanding DNS Delegation & Forwarders
- Understanding of Multi-Forest Environments
- Creation of Trust between 2 Forest
- Type of Trust and Nature of Trust
- Type of Groups in Active Directory
- Security & Distribution Group
- Global, Domain Local & Universal Group
- Understanding of Global Catalog Server

MODULE 8:- DNS, AD RECYCLE BIN, SYSTEM STATE BACKUP

- Need of DNS & Active Directory Integrated DNS
- Host File, DNS Cache & DNS Zone
- DNS Forwarders, Delegation & Conditional Forwarders
- DNS A record, SRV Record , CNAME Record
- Recovering Active Directory from Disaster
- Active Directory Recycle Bin
- System State Backup of Domain Controller

MODULE 9:- DFS, DHCP, WDS, WSUS

- Installing DFS Role on the Server
- DFS Namespace & Replication
- How SYSVOL Replication Works
- Installing DHCP Role on the Server
- How DHCP Works
- Understanding of APIPA & DORA Process
- Configure Scope, Exclusion, Lease, Reservation in DHCP
- Installing Windows Deployment Service(WDS) Role
- Configure Boot Image & Install Image
- Deployment of Operating System via Network (PXE Boot)
- Understanding of Windows Server Update Service(WSUS)

MODULE 10:- WEB SERVER (IIS), RAID, VIRTUALIZATION TECHNOLOGIES

- Installing IIS Role on the Server
- Creation of Website
- Performing DNS Round Robin
- Installing NLB and Creation of Load Balancer
- Need of Redundant Array of Independent Disk(RAID)
- Configure RAID 0 - Stripping , RAID 1 – Mirroring, RAID 5 - Strip Parity
- Understanding RAID 10 - Strip Mirror
- Understanding & Need of Virtualization Technologies

MODULE 11:- ACTIVE DIRECTORY CERTIFICATE SERVICE (ADCS), FAIL OVER CLUSTER (FOC)

- Need of Failover Cluster
- Installing Failover Cluster (FOC) Role on the Server
- Creation of SAN & ISCSI Disk
- Perform Failover Cluster
- Installing Active Directory Certificate Service(ADCS) Role on the Server
- Creation of Certificate Server
- Enterprise & Standalone CA
- Creation of Domain Certificate using CA
- Applying Certificate to the Webserver

MODULE 12:- MIGRATION FROM 2012 TO 2016, JOB SEARCH TECHNIQUE, RESUME PREPARATION TIPS AND AD TOOLS

- Understand the Need of Migration Migrate Active Directory Domain from 2012 to 2016
 - Perform the Check after Successful Migration
 - Upgrade Forest & Domain Functional Levels
 - Resume Preparation and Interview Preparation Techniques
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