

MCSE

Network Essentials

- Networking Concepts, History of Server OS
- Introduction to windows server 2012 R2 / 2016 / 2019 / 2022
- Features of Windows Server 2019/2022
- Installation of Windows Server 2019
- Installation of Windows Server 2022
- Installation of Windows 10
- Introduction and Creation of Users accounts
- Conversion of GUI to Server Core
- Conversion of Server Core to GUI

Physical Structure of AD-DS

- Introduction to Read-Only Domain
- Logical Topologies – Peer-Peer & Domain Models
- Introduction to Directory Services
- Evolution of Active Directory Services – LDAP Protocol
- Features of Active Directory
- Installing Active Directory – Domain Controller

Member Servers, Clients, User Configuration

- Configuring Member Servers and Clients
- Creating Users in AD-DS
- User Logon policies
- Password policies
- Account Lockout policies
- User properties

Permissions / Access Control Lists

- File Systems
- Security and Sharing Permissions – Folders & Files
- Configuring Map Network Drive
- Access Based Enumeration

Profiles and File Server Resource Manager [FSRM]

- Types of Profiles – Local & Roaming
- Home Folder
- Configuring Quotas using FSRM
- Implementing File Screening using FSRM
- Configuring Storage Reports Management
- Introduction to Distributed File System

Group Policy / System Policies

- User and Computer Policies
- Scope of Policies – OU, Domain, Sites
- Group Policy Modelling (RSOP)
- Software Deployment
- Scripts, Folder Redirection
- Group Policy Preferences
- Auditing



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OU (Organizational Unit)

- Creating Organizational Unit
- Delegating Control to a User

Active Directory – Domain Services

- IP Addressing

Logical Structure of AD – DS

- Configuring ADC
- Tree Structure – Child Domain
- Forest Structure

FSMO Roles of AD – DS

- Roles of AD – DS
- Transferring of Roles
- Seizing of Roles

Active Directory Trusts

- Introduction to Trust Relationship
- Categories, Directions & Types of Trusts
- Functional Levels
- Authentication Protocols Controller

Sites and Global Catalog

- Replication between the Domain Controllers
- AD-DS Partitions
- Active Directory Recycle Bin

Dynamic Host Configuration Protocol (DHCP)

- Introduction and Configuration of DHCP Server
- DHCP Client Configuration
- Reservations
- DHCP Backup and Configuring DHCP Failover
- Configuring Forest Trusts between 2022 Forests



Domain Name System (DNS)

- Internet Basics, Host & LM Host Files
- DNS Naming Hierarchy
- Lookup Zones – Forward and Reverse lookup Zones
- Types of Zones – Primary, Secondary & Stub Zone
- Resource Records, Integration with ADS, SRV Records
- Forwarders, Dynamic Updates

Internet Information Services (IIS)

- IIS 10.0 Configuration
- Hosting Websites, Virtual Directories
- Redirecting Web Sites
- Backup & Restoring Sites
- FTP Sites

Microsoft Hyper-V

- Installation of Hyper – V
- Configuring Virtual Machine
- Configuring Virtual Networks
- Configuring Virtual Hard disks
- Configuring Hyper-V Replica

Remote Access Service

- Remote Access Server Configuration
- NAT and VPN – PPTP

Storage Technologies

- Configuring iSCSI Target and Initiator
- Introduction to Storage spaces and Storage Pools
- Configuring Simple Volume (RAID – 0)
- Configuring Mirror Volume (RAID – 1)
- Configuring Parity Volume (RAID – 5)

Advanced Topics

- Windows Server Backup
- Overview of AD-FS, LDS, RMS, CS
- Upgrading Windows Server 2016 to 2019/2022
- WSUS

Remote Desktop Services

- Remote Administration Mode

Failover Clustering

- Configuring Failover on Hyper-V Virtual Machines



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