

Course Curriculum

RAINU

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

Active Directory - Domain Services

• IP Addressing

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 policie
- 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





OU (Organisational Unit)

- Creating Organisational Unit
- Delegating Control to a User

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

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 Preference
- Auditing

Active Directory Trusts

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

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• 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

Windows Deployment Services

- Introduction and Configuration of WDS Server
- Attended and Unattended Installation

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

Remote Desktop Services

• Remote Administration Mode

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)

Failover Clustering

• Configuring Failover on Hyper-V Virtual Machines

Advanced Topics

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



