

Training Contents for Windows Server Implementation, Migration & High Availability Administration

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Contents	Training Details
Introduction to Windows Server and Lab Environment Readiness	<ul style="list-style-type: none"> • Overview of Windows Server Editions and Features • Key differences between versions (2016, 2019, 2022) • Orientation to Lab Environment • Installation and Licensing
AD DS Installation and Configuration	<ul style="list-style-type: none"> • Promoting a Server to a Domain Controller • Create and manage AD DS users and groups • Implement Group Policy in AD DS • Deploy Read-Only Domain Controllers (RODCs)
High Availability for AD DS	<ul style="list-style-type: none"> • Deploying multiple Domain Controllers • Configuring Global Catalog servers • Setting up Additional Domain Controllers for redundancy • Configuring FSMO roles • Configuring Sites and Subnets for replication optimization • Troubleshooting Replication issues
AD DS Migration	<ul style="list-style-type: none"> • Migrating from legacy AD DS versions • Domain and Forest functional levels Upgradation • Upgrading Domain Controllers • Using Active Directory Migration Tool (ADMT)
Deploy and Manage DNS Server	<ul style="list-style-type: none"> • Understanding DNS fundamentals • Deploying DNS Server • Configuring Forward and Reverse Lookup Zones
DNS Server Migration & Redundancy	<ul style="list-style-type: none"> • Configure Primary & Secondary DNS • Migrating DNS from Windows Server 2008/2012 to 2016/2019/2022 • Understanding High Availability options for DNS • Testing and verifying migration success
Deploy and Manage DHCP Server	<ul style="list-style-type: none"> • Deploying DHCP Server • Configuring IPv4 scopes • Implementing DHCP Options (default gateway, DNS, WINS, etc.) • Creating and managing DHCP Reservations
Migration & Redundancy of DHCP Server	<ul style="list-style-type: none"> • DHCP database structure and backup strategies • Migrating DHCP from older versions to newer versions • Understanding DHCP Failover • Exporting and importing DHCP configurations
iSCSI Configuration	<ul style="list-style-type: none"> • Overview of iSCSI and Its Importance • Installing iSCSI Target and Initiator • Mounting and Formatting iSCSI Volumes

File Server Installation and Configuration	<ul style="list-style-type: none"> • File Server Use Cases and Best Practices • Configuring Basic File Sharing and NTFS Permissions • Configure File Server Quota & Screening
File Server Migration and High Availability	<ul style="list-style-type: none"> • Planning a File Server Migration • Tools for Migration (Storage Migration Service, Robocopy) • Configure DFS Replication • Configure DFS Namespace • Configuring Failover Clustering for File Servers • Migrating File Shares and Permissions
Windows Server Backup & Recovery Plan	<ul style="list-style-type: none"> • Overview of Windows Server Backup (WSB) • Performing Manual and Automated Backups • Managing Backup Retention Policies • Backup and Restore of AD DS Database
Web Server Implementation	<ul style="list-style-type: none"> • Deploying Web Server • IIS Installation on Windows Server (2019/2022) • Managing IIS Sites, Applications, and Virtual Directories
Network Load Balancing (NLB) for Web Server and Migration	<ul style="list-style-type: none"> • IIS Load Balancing with Network Load Balancing (NLB) • Migrating from Older Windows Server Versions (2012, 2016) • IIS Configuration Backup and Restoration

Thank You!