

MCSE + Linux

The MCSE certification is recognized worldwide as the gold standard in IT certification. Our MCSE mapped course will give you a comprehensive understanding of Microsoft technologies and the ability to design, implement, and manage innovative solutions that drive business success.

With a focus on hands-on, practical training, our course covers key topics such as server infrastructure, cloud computing, network design, data management, and more. With our MCSE mapped course, participants can take their career to the next level and become experts in one of the most in-demand and rewarding areas of IT.

Our USP: All our classes are conducted **LIVE with 100% Student Interaction**. Our expert instructors have years of industry experience. Our world class courseware and labs ensure that the students gain hands on **Practical Knowledge** and are not limited to theory alone. Come, **ZOOM** with us into a networking career!

Course Outline

- Network & Operating System Essentials
- Installing and Configuring Windows Server 2012 R2 / 2016 / 2019 / 2022
- Administering Windows Server 2012 R2 / 2016 / 2019 / 2022
- Designing and Implementing Server Infrastructure
- Configuring Windows Server 2012 R2 / 2016 / 2019 / 2022 Services
 - Active Directory Domain Services
 - DNS, DHCP, IIS 10.0, VPN
- Configuring File Server
 - File Server Resource Manager
 - Configuring Shared Resources
- Implementing Microsoft Virtualization Technologies
 - Server Virtualization using Hyper-V
- Configuring Advanced Storage Solutions
 - iSCSI Target and Initiator
 - Storage Spaces and Storage Pools and RAID
- Implementing Security Restrictions
 - Group Policies
 - Group Policy Preferences



Course Curriculum

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 Course Curriculum

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
- 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 Modeling (RSOP)
- Software Deployment
- Scripts, Folder Redirection
- Group Policy Preferences
- Auditing

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

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
- Configuring NLB cluster
- Overview of NAP


Linux Administrator

The Linux Administrator course is a comprehensive training program designed to provide IT professionals with the skills and knowledge needed to effectively manage Linux-based systems. This course covers a wide range of topics, including Linux installation and configuration, system administration, networking, security, and scripting. The program is intended for IT professionals who wish to deepen their expertise in Linux-based operating systems and learn best practices for managing Linux environments. Upon completion of the Linux course, participants will have gained the skills necessary to deploy and manage Linux-based systems, automate common administrative tasks, and troubleshoot issues that may arise in a Linux environment. With Linux being one of the most widely used operating systems in the world, this course teaches essential Linux skills for IT professionals in many industries.

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Course Outline

- Introduction to Linux
- Files and Directories Management
- User and Group Administration
- Permissions
- Software Package Administration
- NFS Server



Linux
Linux Essentials
System Administration
Network
Administration

Introduction to Linux

- History of Unix & Linux
- Features of Linux

Files and Directories Management

- Fhs
- Creating Files Using Cat
- Touch Commands,
- Modifying Using Vi/Vim Editors
- Copying Files & Directories
- Removing Files & Directories

User and Group Administration

- Filtering Commands
- Creating and Deleting Users From Systems
- Creating and Deleting Groups

Permissions

- Modifying & Verifying File Permissions Using Basic File Permissions

Software Package Administration

- Installing and Deleting Software Packages Using Rpm and Yum
- Querying and Updating Software Packages

Network File System (NFS)

- Configuring NFS File Sharing Server
- Mounting NFS Shared Folder From Client Systems