

Windows Server Administration Fundamentals

Course Duration: 24 Hours

Course code: 98-365

1. Course Overview

This course introduces participants to the fundamentals of Windows Server administration. It provides hands-on experience with installation, configuration, user management, networking, security, and monitoring. Participants will learn the essential skills required to manage Windows Server environments, making it an ideal starting point for aspiring system administrators or IT professionals.

2. What you'll learn?

- Understand Windows Server architecture, roles, and features.
- Install and configure Windows Server operating systems.
- Manage users, groups, and Active Directory.
- Configure file services, storage, and permissions.
- Set up networking and server security features.
- Perform server monitoring, troubleshooting, and maintenance.
- Apply best practices for efficient server administration.

3. Target Audience

- IT Support Professionals and Helpdesk Technicians
- Aspiring System Administrators and Network Administrators
- Students beginning a career in IT infrastructure
- Anyone seeking foundational knowledge of Windows Server

4. Pre-Requisites

- Basic computer literacy and operating system knowledge
- Familiarity with networking fundamentals (IP, LAN, WAN)

- No prior Windows Server administration experience required

5. Course content

Module 1: Introduction to Windows Server

- Overview of Windows Server editions and versions
- Server roles and features
- Windows Server installation options (GUI vs Core)
- Navigating Server Manager and administrative tools

Module 2: User and Group Management

- Introduction to Active Directory Domain Services (AD DS)
- Creating and managing user accounts and groups
- Implementing Group Policy Objects (GPOs)
- Delegating administrative permissions

Module 3: File Services and Storage Management

- Configuring file shares and permissions
- NTFS vs Share permissions
- Implementing Distributed File System (DFS)
- Managing disks, volumes, and storage spaces

Module 4: Networking Fundamentals in Windows Server

- Configuring IP settings (IPv4/IPv6)
- DNS and DHCP basics in Windows Server
- Implementing network roles and services
- Troubleshooting common networking issues

Module 5: Security and Access Control

- Understanding Windows Server security principles
- Configuring local and domain security policies

- Windows Firewall with Advanced Security
- Implementing authentication and authorization

Module 6: Monitoring and Maintenance

- Using Task Manager, Event Viewer, and Performance Monitor
- Monitoring server performance and health
- Managing updates with Windows Server Update Services (WSUS)
- Troubleshooting and resolving common server issues

Module 7: Backup, Recovery, and High Availability

- Implementing Windows Server Backup
- Restoring data and system state
- Introduction to clustering and failover concepts
- Best practices for disaster recovery planning

Module 8: Best Practices and Case Studies

- Securing server environments
- Optimizing server performance
- Real-world administration scenarios
- Hands-on labs and practice exercises