



Windows Server Administration Fundamentals Instructor-Led Training

This fundamental certification belongs to the IT infrastructure domain of Microsoft Technology Associate certification exams. The course will train the candidate for handling the Microsoft Windows Servers for different organizations. The expertise skills will help the candidate to get their career start with a kick.

About this training

- **Study Material:-** 24*7 Lab Access, Live lectures of Training, Streaming Recorded Videos, Online Lab Workbook, and Remote Virtual Lab access.
- **Duration:- 1 month**

What you will learn?

- Windows Server
- Windows-based networking
- Active Directory
- Account management
- System recovery tools and concepts

Certification

98-365 MTA: Windows Server Administration Fundamentals

About Instructor

The instructor has the 13+ years of experience in the field of windows servers and networks. He has been part of some leading company serving as a professional and expert to troubleshoot and manage the Windows servers.

His unique style of teaching delivers the concepts to its easiest way possible to the candidates.

Course Content

Understanding server installation

- Understand device drivers
 - Installation, removal, disabling, update/upgrade, rollback, troubleshooting, Plug & Play, IRQ, interrupts, driver signing, managing through Group Policy
- Understand services
 - Which statuses a service can be in, start-up types, recovery options, delayed start-up, Run As settings for a service, stopping or pausing a service, service accounts, and dependencies
- Understand server installation options
 - Choose the correct operating system version options; Server core vs. Desktop Experience, Nano Server installation, interactive installs; automated install using

WDS; VHD/VHDX installation source, perform unattended installs; perform upgrades, clean installs, and migrations

Understanding server roles

- Identify application servers
 - Mail servers, database servers, collaboration servers, monitoring servers, threat management
- Understand Web services
 - IIS, WWW, and FTP, installing from Server Manager, separate worker processes, adding components, sites, ports, SSL, certificates
- Understand remote access
 - Remote assistance, remote administration tools, Remote Desktop Services, multipoint services, licensing, RD Gateway, VPN, application virtualization, multiple ports
- Understand the file and print services
 - Local printers, network printers, printer pools, web printing, web management, driver deployment, file, folder, and share permissions vs. rights, auditing, print job management
- Understand server virtualization
 - Virtual memory, virtual networks, snapshots and saved states, physical to virtual conversions, virtual to physical conversions, VHD and VHDX formats, nested virtualization

Understanding Active Directory

- Understand accounts and groups
 - Domain accounts, local accounts, user profiles, computer accounts, group types, default groups, group scopes, group nesting, understand AGDLP and AGUDLP processes to help implement nesting
- Understand organizational units and containers
 - Purpose of OUs, purpose of containers, delegation, default containers, uses for different container objects, default hidden and visible containers
- Understand Active Directory infrastructure
 - Domain controllers, forests, child domains, operation master roles, domain vs. workgroup, trust relationships, functional levels, deprecated functional levels, namespace, sites, replication, schema, Passport
- Understand group policy
 - Group policy processing, Group Policy Management Console, computer policies, user policies, local policies

Understanding storage

- Identify storage technologies and their typical usage scenarios
 - Advantages and disadvantages of different storage topologies, local storage, network storage, Fibre Channel, iSCSI hardware
- Understand RAID redundancy
 - RAID 0, RAID 1, RAID 5, RAID 10 and combinations, hardware and software RAID
- Understand disk types

- Solid State Drive (SSD) and Hard Disk Drive (HDD) types and comparisons, ATA basic disk, dynamic disk, mount points, file systems, mounting a virtual hard disk, distributed file systems

Understanding server performance management

- Identify major server hardware components
 - Memory, disk, processor, network, 32-bit and 64-bit architecture, removable drives, graphic cards, cooling, power usage, ports
- Understand performance monitoring
 - Methodology, procedures, effect of network, CPU, memory and disk, creating a baseline, Performance Monitor, Resource Monitor, Task Manager, performance counters, Data Collector Sets
- Understand logs and alerts, Event Viewer
 - Purpose of performance logs and alerts

Understanding server maintenance

- Identify steps in the start-up process
 - BIOS, UEFI, TPM, boot sector, boot loader, MBR, boot.ini, POST, Safe Mode
- Understand business continuity
 - Backup and restore, disaster recovery planning, clustering, AD restore, folder redirection, data redundancy, uninterruptible power supply (UPS)
- Understand updates
 - Software, driver, operating systems, applications, Windows Update, Windows Server Update Service (WSUS)
- Understand troubleshooting methodology
 - Processes, procedures, best practices; systematic vs. specific approach, Performance Monitor, Event Viewer, Resource Monitor, Information Technology Infrastructure Library, central logging, event filtering, default logs

Note: ***Most of the course topics are covered with hands-on lab exercises and others are theoretical

Thank You

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