55367: Windows Server® Administration

Duration: 5 Days
Method: Instructor-Led Training (ILT) | Live Online Training

Course Description

This course covers the administration of core components and technologies in Windows Server 2022. The course begins with an administration techniques overview and then continues to topics such as identity services, networking, virtualization, high availability, disaster recovery, and others. This is a very extensive course, with copious content and labs, and it can serve as a helpful guide when administering a Windows Server environment.

NOTE: *This course is the equivalent of the retired MOC WS-011: Windows Server 2019 Administration.*

Target Audience

This course is intended for:
- IT Professionals who have experience working with Windows Server.
- Server Administrators from previous Windows Server versions to update their knowledge and skills related to Windows Server 2022.

Prerequisites

To attend this course, candidates must have:
- Exposure to and experience with AD DS concepts and technologies in Windows Server 2016 or later.
- Experience working with and configuring Windows Server 2016 or later.
- Experience and an understanding of core networking technologies such as IP addressing, name resolution, and Dynamic Host Configuration Protocol (DHCP).
- Experience working with and an understanding of Microsoft® Hyper-V® and basic server virtualization concepts.
- An awareness of basic security best practices.
- Experience working directly with Windows client operating systems such as Windows® 10 or later.
- Basic experience with Windows PowerShell®.

Microsoft®Partner

Tel: 876-978-1107 / 876-978-1486
WhatsApp: 876-978-9353
E-Mail: training@RWTTS.com | **Website:** www.RWTTS.com

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Course Objectives

Upon successful completion of this course, attendees will be able to:
- Administer Windows Server 2022 and earlier versions.
- Administer and configure, in Windows Server 2022:
    - Networking services.
    - Virtualization services.
    - Security services.
    - High availability and disaster recovery services.

Course Topics

Module 1: Windows Server Administration
- Overview of Windows Server Administration Principles and Tools
- Introducing Windows Server 2022
- Overview of Windows Server Core

Module 2: Identity Services in Windows Server
- Overview of AD DS
- Deploying Windows Server Domain Controllers
- Overview of Azure AD
- Implementing Group Policy
- Overview of AD CS

Module 3: Network Infrastructure Services in Windows Server
- Deploying and Managing DHCP
- Deploying and Managing DNS Services
- Deploying and Managing IPAM

Module 4: File Servers and Storage Management in Windows Server
- Volumes and File Systems in Windows Server
- Implementing Sharing in Windows Server
- Implementing Storage Spaces in Windows Server
- Implementing Data Deduplication
- Implementing iSCSI
- Deploying DFS

Course Topics *Continued*

Module 5: Hyper-V virtualization and containers in Windows Server
- Hyper-V in Windows Server
- Configuring VMs
- Securing Virtualization in Windows Server
- Containers in Windows Server
- Overview of Kubernetes

Module 6: High Availability in Windows Server
- Planning for Failover Clustering Implementation
- Creating and Configuring Failover Clusters
- Overview of Stretch Clusters
- High Availability and Disaster Recovery Solutions with Hyper-V VMs

Module 7: Disaster Recovery in Windows Server
- Hyper-V Replica
- Backup and Restore Infrastructure in Windows Server

Module 8: Windows Server Security
- Credentials and Privileged Access Protection in Windows Server
- Hardening Windows Server
- JEA in Windows Server
- Securing and Analysing SMB Traffic
- Windows Server Update Management

Module 9: RDS in Windows Server
- Overview of RDS
- Configuring a Session-Based Desktop Deployment
- Overview of Personal and Pooled Virtual Desktops

Module 10: Remote Access and Web Services in Windows Server
- Overview of RAS in Windows Server
- Implementing VPNs
- Implementing NPS
- Implementing Always On VPN
- Implementing Web Server in Windows Server

Module 11: Server and Performance Monitoring in Windows Server
- Overview of Windows Server Monitoring Tools
- Using Performance Monitor
- Monitoring Event Logs for Troubleshooting

Module 12: Upgrade and Migration in Windows Server
- AD DS Migration
- Storage Migration Service
- Windows Server Migration Tools

LABS INCLUDED