

55367: Windows Server Administration

Duration: 5 Days

Prerequisites:

- Some 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

Course Description:

This course is intended for IT professionals with some experience in Windows Server 2012, or later. It should serve as a comprehensive guide for key areas of administration of Windows Server 2022 and a one stop-shop for all Windows Server administrators that needs additional knowledge on configuring and maintaining the most important features of this product. The course begins with an administration techniques overview, and then continues to topics such as identity services, networking, virtualization, high availability, disaster recovery, and other. This is a very extensive course, with a lot of content and labs, and it can serve both for exam preparation and as a helpful guide when administering a Windows Server environment

Course Objectives:

- Administer Windows Server 2022 and earlier versions.
- Administer and configure networking services in Windows Server 2022.
- Administer and configure virtualization services in Windows Server 2022.
- Administer and configure security services in Windows Server 2022.
- Administer and configure high availability and disaster recovery services in Windows Server 2022

- Implement synchronization between AD DS and Azure AD
- Monitor, troubleshoot, and establish business continuity for AD DS services

Target Audience:

This course is intended for IT professionals who have some experience working with Windows Server and are wanting a five-day course that covers the administration of core components and technologies in Windows Server 2022. This course also helps server administrators from previous Windows Server versions to update their knowledge and skills related to Windows Server 2022.

Course Outline:

Module 01: Windows Server Administration

- Overview of Windows Server administration principles and tools
- Introducing Windows Server 2022
- Overview of Windows Server Core

Module 02: Identity Services in Windows Server

- Overview of ADDS
- Deploying Windows Server domain controllers
- Overview of Azure AD
- Implementing Group Policy
- Overview of ADCS

Module 03: Network Infrastructure Services in Windows Server

- Deploying and managing DHCP
- Deploying and managing DNS services
- Deploying and managing IPAM

Module 04: 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

Module 05: 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 06: 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 07: Disaster recovery in Windows Server

- Hyper-V Replica
- Backup and restore infrastructure in Windows Server

Module 08: Windows Server security

- Credentials and privileged access protection in Windows Server
- Hardening Windows Server
- JEA in Windows Server
- Securing and analyzing SMB traffic
- Windows Server update management

Module 09: 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

- ADDSMigration
- Storage Migration Service
- Windows Server migration tools

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