

Windows 2019 Server Administration

Learn how to:

- What is Windows Server 2019?
- Server 2019: Hardware requirements
- The Windows 2019 Family of Operating Systems
- Server 2019 Feature Comparison
- Overview - Server Core, PowerShell and Hyper-V
- Interoperability with Server 2012 R2
- Visual Changes in Server 2019
- Install and Configure Active Directory
- Manage access to resources using Groups
- Configure TCP/IP Networking Components
- Install and Configure DHCP Servers
- Configure Disk Management
- Monitor and Troubleshoot 2019 Servers
- Install and Configure Remote Desktop Services
- Install and Configure Printing Services

Pre-Requisites:

This course assumes delegates have knowledge of implementing a Windows desktop such as Windows 10 or Windows 7 in a Network business environment. These skills can be obtained from our desktop support courses. This course assumes no knowledge of Server 2019.

Duration:

4 Days

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IT Training

Have any questions?

Give one of our expert staff a call.

Installation and Deployment

Pre-Installation Tasks
Standard vs Datacenter
Core vs Desktop Experience
Installing / Upgrading to Windows 2019
Installing Windows 2019 Server
Disk Partitioning Recommendations
Changing the Installation Type
Installation Troubleshooting

Overview – Using Core Edition

Initial Core Server Configuration
Running the Server Config Utility
Initial Configuration Settings
Configuring Remote Access to Core Edition
Performing Initial Configuration Tasks

Server Manager Utility

- Server Manager Dashboard
Using the Windows Admin Center
Accessing Server Manager
Adding/Removing Roles
Adding/Removing Features

Introducing Active Directory

Workgroups vs Domains
Members Servers vs Domain Controllers
Introducing Trees and Forests
Active Directory Physical Structure
Installing Active Directory on Windows 2019 Servers
Domain and Forest Functional Levels
Troubleshooting the Installation of Active Directory

Active Directory Recycle Bin

Overview – The Active Directory Recycle Bin
Enabling the AD Recycle Bin
Recovering Objects with the AD Recycle Bin

Creating and Managing User Accounts

Introduction to User Accounts
Guidelines for New User Accounts
Creating Local User Accounts
Creating and Configuring User Accounts
Setting Properties for Domain User Accounts
Customizing User Settings with User Profiles
Best Practices

Managing Resource Access by Using Groups

Introduction to Groups
Configuring Universal Groups
Configuring Global Groups
Domain Local Groups
Security v Distribution Groups
Implementing Groups in a Workgroup
Implementing Groups in a Domain

NTFS Security and Permissions

NTFS Permissions
Setting NTFS permissions on files and folders
Sharing Resources
Setting Share Level Security Permissions
Combining NTFS and Share Level Permissions

Introduction to TCP/IP

Introduction to TCP/IP
The History of TCP/IP
IP Address Classes – A, B and C
Subnetting

Configuring IPv6

TCP/IP Overview of IPv6
Coexistence with IPv4
Transitioning from IPv4 to IPv6
Configuring a New IPv6 Network and Client
Describe the benefits and considerations of IPv6
Troubleshoot IPv6 connectivity

Managing Distributed File System (DFS)

Describe DFS
Installing the DFS Service
Creating a DFS Namespace
Configuring Folder Targets and Replication

Configuring and Troubleshooting DNS

Installing the DNS Server Role
Configuring the DNS Server Role
Configuring a DNS Infrastructure
Troubleshooting DNS

Dynamic Host Configuration Protocol (DHCP)

The DHCP Server Role
The 4-way Handshake Process
Installing and Authorizing the DHCP Server Role
Configuring DHCP Scopes and Options
Managing a DHCP Database
Monitoring and Troubleshooting DHCP
Securing DHCP

Disk Management

Server 2019 Disk Management Overview
File systems supported
Basic V Dynamic Storage
Creating Simple Storage Volumes
Creating Spanned, Striped, Mirrored and RAID 5 Volumes

Disaster Protection

Introduction to Disaster Protection
Using Windows Server Backup
Backing Up and Restoring Data
PowerShell WBADMIN Commands
Using Disaster Recovery Tools
Repair Mode Boot Options
Repairing Server 2019

BitLocker Volume Encryption

What is BitLocker?
Disk Partitioning for BitLocker
Trusted Platform Module (TPM)
Installing and Configuring BitLocker
Using BitLocker-To-Go

Monitoring and Optimizing Performance

Monitoring Event Logs
Using Task Manager to Monitor System Resources
Using System Monitor to Monitor System Performance
Using System Alerts
Identify counters to monitor
Optimizing Performance
Resolving Performance Bottlenecks
Performance Logging

Implementing Security Auditing

Auditing Windows Server 2019
Configuring Auditing
Auditing File and Folder Access
Auditing Logon Events
Auditing Printers
Viewing/Examining Audit Logs

Remote Administration

Using Remote Desktop
Overview - Remote Desktop Services (RDS)
Server Manager Remote Management
Remote Desktop for Administration
Installing/Configuring RDS
Introduction to Remote Administration
Remote Administration Options

Printing

Overview – The Print Management Console
Installing the Print Management Console
Configuring the Print Management Console
Adding New Printers
Configuring Printing Devices
Configuring Printer Permissions



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