

Windows Server 2019
Administration
STUDY PLAN

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Introduction to Windows Server 2019

1. Introducing Windows Server 2019
2. What is Windows Server?
3. What's New in Windows Server 2019?
4. Windows Server 2019 Editions
5. Installation Options and Requirements
6. Windows Server activation models

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Building the Server Lab Environment

1. Windows Server 2019 Lab Diagram
2. Hurbad-DC – Installing Windows Server 2019
3. HURSRV-CORE – Installing Windows Server 2019
4. HURSRV01 – Installing Windows Server 2019
5. HURSRV2016 – Installing Windows Server 2016
6. HURCL10 – Installing Windows 10
7. Installing Domain Controllers
8. Join a Server to the Domain
9. Upgrading to Windows Server 2019
10. Configure Server Core with Sconfig and PowerShell

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Windows Server Administration Overview

1. Install Windows Admin Center
2. Configure Windows Admin Center extensions
3. Verify remote administration
4. Administer servers with Remote PowerShell

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Identity Services in Windows Server

1. Active Directory Domain Services Overview
2. Installing a forest root domain controller
3. Installing additional domain controllers
4. Installing read-only domain controllers
5. Managing AD DS with Active Directory Administrative Center
6. Managing AD DS with Active Directory
7. Active Directory Domains and Trusts overview
8. Active Directory Sites and Services overview
9. Active Directory schema overview
10. Managing AD DS from the command line

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Identity Services in Windows Server

1. Creating user accounts
2. Creating user accounts with PowerShell

3. Login with New User Account
4. Creating organizational units (OUs)
5. Moving user accounts
6. Creating a group
7. Creating a group using PowerShell
8. Configuring Group Policy
9. Review the effects of the GPO's settings
10. Azure Active Directory overview
11. Overview of Active Directory Certificate Services (AD CS)
12. Install a Certificate Authority
13. Deploying and using certificate services

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Network Infrastructure Services In Windows Server

1. Overview of the DHCP Server Role
2. Install the DHCP role
3. Create a scope
4. Configure DHCP Failover
5. Overview of the DNS Server Role
6. Install the DNS role
7. Create a DNS Zone and Host A Record

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Implementing Storage Solutions in Windows Server

1. Managing disks in Windows Server
2. Create VHD and VHDX
3. Implementing Data Deduplication
4. Install the Data Deduplication role service
5. Enable and configure Data Deduplication
6. Test Data Deduplication
7. Implementing Storage Spaces
8. Install iSCSI and configure targets
9. Connect to and configure iSCSI targets
10. Verify iSCSI disk presence
11. Create a storage pool by using the iSCSI disks attached to the server
12. Create a three-way mirrored disk

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Hyper-V Virtualization and Containers in Windows Server

1. Overview of Hyper-V
2. Install the Hyper-V role on Windows Server
3. Create a Hyper-V virtual switch
4. Create a virtual hard disk
5. Create a virtual machine
6. Manage Virtual Machines using Windows Admin Center
7. Overview of containers in Windows Server 2019
8. Install Docker on Windows Server
9. Install and run a Windows container

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High Availability in Windows Server

1. Planning for failover clustering implementation
2. Overview of stretch clusters
3. Install Failover Clustering
4. Configure iSCSI virtual disks
5. Connect clients to the iSCSI targets
6. Initialize the disks
7. Validate and Create a Failover Cluster
8. Add the file server application to the Failover Cluster
9. Configure the Failover and Failback settings
10. Validating the deployment of the highly available File Server

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Disaster Recovery in Windows Server and Windows Server Security

1. Overview of Hyper-V Replica
2. Configure a replica on both host machines
3. Configure replication
4. Configure Windows Server Backup options
5. Perform a backup
6. Enable Windows Defender Credential Guard using Group Policy
7. Locating problematic accounts