

Configuring Windows Server Hybrid Advanced Services (AZ-801) 2022

This Configuring Windows Server Hybrid Advanced Services training covers the objectives in the AZ-801 exam, which is one of two exams required to earn the Windows Server Hybrid Administrator Associate certification. Use this AZ-801 exam prep to get certified, proving that you have the advanced administrator skills required to manage Windows Server servers in a hybrid environment.

[CBT Nuggets course material](#) →

WEEK 1

Use Windows Defender to Secure Windows Server Operating System

Not Your Granddad's Windows Defender

Create Windows Defender Application Control Policies

Deploy WDAC Policies

Preparing for Windows Defender for Endpoints Deployment

Onboarding Endpoints

Enable Windows Defender Credential Guard

Summarizing Windows Defender

Secure Windows Operating Systems

Overview

Introducing Securing Windows OSs

Exploit Protection

SmartScreen

Account Policies

User Rights Assignment Policies

Security Options

Audit Options

Summarizing Securing Windows OSs

Secure Hybrid Active Directory Infrastructure

Overview

Introducing Securing Hybrid Active Directory Infrastructure

Multi-Factor Authentication

Multi-Factor Authentication Setup

MFA Service Configuration

RBAC Concepts

WEEK 2

Working with RBAC

Privileged Identity Management

Azure Application Proxy

Summarizing Securing Hybrid Active Directory

Use Azure to Monitor Windows Security

Overview

Introducing Azure Tools for Securing Windows

The Big Picture for Azure Security

Microsoft Defender for Cloud

Microsoft Sentinel

Secure Windows Server Networking

Overview

Introducing Windows Server Network Security

Windows Defender Firewall and Connectivity Rules

Digging into Domain Isolation

Create the GPO Objects

Exempt ICMP Traffic

Authentication Exemptions

Configure IPsec

Create the Connection Security Rule

Verify the Security Associations

Summarizing Windows Server Network Security

Secure Windows Server Storage

Overview

Introducing Securing Windows Server Storage

Setting up Bitlocker on Windows PCs

WEEK 3

Unlocking an Encrypted Hard Drive

BitLocker Enterprise Solutions

Configure a Key Vault for Azure Hard Drive Encryption

Encrypt an Azure VM from the Portal

Use Azure CLI to Encrypt a VM

Use Powershell to Encrypt a VM

Summarizing Windows Device Hard Drive Encryption

Implement Failover Clustering

Overview

Implementing Windows Server Failover Clustering

Failover Clustering Designs and Requirements

Create and Initialize an iSCSI Target

Deploy the Failover Cluster

Hybrid Quorum Configuration

Manage and Maintain Failover Clusters

Overview

Introducing Failover Cluster Management and Maintenance

What's New in Windows Server 2022

Cluster-Aware Updating

Rolling OS Upgrades

WEEK 4

Adding Roles to the FCI

Managing Clusters via Windows Admin Center

Implement Stretch Clusters Across Azure Regions

Overview

Introducing Stretch Clusters

Azure Multi-Region Replication Design and Requirements

Scaffold the Base Resources

Implement VNet Peering and Install Roles

Create the Clusters

Enable S2D

Implement Storage Replica between Clusters

Implement Storage Spaces Direct

Overview

Introducing HCI with S2D

Understand the Point of HCI

Understand Networking Requirements for S2D

Prepping Nodes for HCI

WEEK 5

Implement S2D and CSVs

Deploy a VM

Manage S2D with WAC

Manage backup and recovery for Windows Server

Overview

Introducing Hybrid Backups with Azure

Consider Your Backup Objectives

Using Hyper-V Checkpoints

Backup an Azure VM

Restore an Azure VM

Backup a Local VMWare VM with MABS

Implement Azure Site Recovery

Overview

Introducing Azure Site Recovery

Understand Azure Site Recovery Objectives

Replicate an Azure VM - The Easy Way

Replicate an Azure VM - The Old Way

Prepare for VMWare VM Replication

WEEK 6

Deploy the Azure Site Recovery Appliance

Perform a Failover to Azure

Implement Hyper-V Replicas

Overview

Introducing Hyper-V Replicas

Planning for Hyper-V Replicas

Configuring Hyper-V Replica Settings

Virtual Machine Replication

Perform a Failover

Summarizing Hyper-V Replicas

Migrate On-Premises Storage Solutions to Azure

Overview

Introducing Storage Migrations
The Storage Migration Plan of Attack
Picking the Right Tool
Perform a File Storage Migration with File Sync
Perform a Blob Storage Migration with AzCopy
Other Kinds of Storage to Consider

WEEK 7

Summarizing Storage Migrations to Azure

Use Azure Migrate to Migrate VMWare VMs to Azure

Overview

Migrate VMWare VMs to Azure IaaS

Deploy and Configure the Azure Migrate Appliance in vCenter

Perform the Inventory Discovery

Perform a Migration Assessment

Begin Replication and Test Migrations

Perform the Migration

Summarizing VMWare Migration

Migrate Windows Server Workloads to Windows Server 2022

Overview

Introducing Windows Server Migrations

Migrate to a Windows Server 2022 Hyper-V Host

Migrate IIS Web Apps to Windows Server 2022

Migrate a Fileshare with Robocopy to Windows Server 2022

Migrate a Print Server to Windows Server 2022

Migrate a DHCP Server to Windows Server 2022

Summarizing Windows Server Migrations

Migrate an ASP.NET Core Web App on IIS to Azure

Overview

Migrate a Web App from IIS to Azure

The Path to Migration

Prep Windows Server for ASP.NET Core Hosting

WEEK 8

Deploy the Web App to IIS

Download the Migration Assistance Tool

Perform the Migration

Summarizing Migrating Web Apps to Azure

Migrate Active Directory Domain Services to Windows Server 2022

Overview

Introducing AD DS Migration to Windows Server 2022

Planning Your Migration to Windows Server 2022

Prep Your Environment for Migration

Migrate FSMO Master Roles

Decom the Old Server

Upgrade the Domain and Forest

Summarizing AD DS Upgrades

Migrate a Domain to a New Forest with ADMT

Overview

Introducing Interforest Migrations

Establish Interforest Connectivity
Create the Admin Account
Configure SID History Migration
Install SQL, ADMT, and PES
Perform the Migration
Summarizing Interforest Domain Migrations

Monitor Windows Server with OS Tools and Azure

Overview
Introducing Windows Monitoring
Working with Perfmon

WEEK 9

Working with Event Logs
Monitoring with Windows Admin Center
Exploring System Insights
Monitoring Systems with Azure
Summarizing Windows Monitoring

Troubleshoot Windows Server and Hybrid Networking

Overview
Troubleshooting Windows and Hybrid Networking
Troubleshooting Methodologies
Validate Routing and Connectivity
Capture Packets in Windows Admin Center
Troubleshoot DHCP Issues
Troubleshoot DNS Issues
Troubleshoot Azure Networking with Network Watcher

Troubleshoot Azure Virtual Machines

Overview
Troubleshooting Azure Virtual Machines
Trouble with Deploying an Azure VM
Trouble with Booting a VM
Trouble with VM Performance

WEEK 10

Trouble with VM Connectivity
Trouble with the VM Extension
Trouble with Disk Encryption

Troubleshoot Active Directory

Overview
Introducing Active Directory Troubleshooting
Digging into Event Viewer
Event Tracing with tracelog.exe
Understand Domain Controller Replication
Digging into Replication with PowerShell
Getting Quick Replication Status and More with Dcdiag.exe
Utilizing Repadmin.exe