

Configuring Windows Server Hybrid Advanced Services (AZ-801)

Get ready for the AZ-801: Configuring Windows Server Hybrid Advanced Services exam with this Windows Server 2025 training course. Through guided lessons and real-world scenarios, you'll gain hands-on practice with security, hybrid Active Directory, Microsoft Entra, and Windows Defender tools. Learn clustering, storage, and disaster recovery while mastering the migration of servers and workloads. This course gives you the confidence to pass the AZ-801 exam and run secure, resilient Windows Server environments.

[CBT Nuggets course material](#) →

WEEK 1

Secure Windows Operating Systems

Exploit Protection

SmartScreen

Account Policies

OSConfig

Local Administrator Password Settings

CHALLENGE

Securing Windows through Windows Defender

Introducing Windows Defender

Introducing Application Control Policies

Creating Windows Defender Application Control (WDAC) Policies

Deploying WDAC Locally and Through GPOs

Windows Defender CredentialGuard and VBS

Audit and Disable NTLM

Manage AD Delegations

Manage Built-In Administrative Groups

CHALLENGE

Secure Windows Network Communications

Introducing Network Isolation

Understand Isolation Concepts

Understand Zones

Create the Empty GPO Object

Exempt ICMP

Authentication Exemptions

Set IPSec Policies

Configure the Connectivity Rules

CHALLENGE

Encrypt Windows Storage Devices

Introducing Disk Encryption

Enable Bitlocker on Windows 11

Unlock Devices

Configure Enterprise Bitlocker GPOs

Use Key Vault for Azure Disk Encryption Sets

Encrypt a Drive via the Azure Portal

CHALLENGE

Secure Endpoints with Defender for Cloud

Introducing Cloud-Based Security

The Suite of Microsoft Cloud Defense

Understand and Manage Microsoft Defender for Cloud

Understand and Manage Microsoft Defender for Servers

Understand and Manage Microsoft Sentinel

CHALLENGE

Implement Workgroup Failover Clusters

Introducing Workgroup Clusters

Understand the Point of Failover Clusters

Design and Plan a Cluster

Prep the Workgroup Servers

Configure Firewall

Setup the Cluster

CHALLENGE

Implement Domain Failover Clusters

Introducing Domain-based Failover Clusters

Refreshing Failover Clusters

Configure the iSCSI LUNs

Build the Cluster

Configure the Cloud Quorum

Hybrid and Cloud Configurations

CHALLENGE

Implement Stretch Clusters in Azure

Introducing Stretch Clusters

Plan for Stretch Clusters

Scaffold the Resources

VNet Peering

Install Roles and Cluster

Configure S2D

Enable Storage Replica

CHALLENGE

Manage Failover Clusters

Introducing Failover Cluster Management

Deploy Network ATC

Understand Static vs Floating IPs

Add Workloads to a Cluster

Failover and Recover

Implement Cluster Aware Updating

CHALLENGE

Back Up Azure VMs

Introducing Backup Basics

The Point of Backups

Backup an Azure VM

Recover a VM

Delete a Recovery Services Vault

Hyper-V Checkpoints

CHALLENGE

Backup VMWare VMs using Azure Backup Server

Introducing Microsoft Azure Backup Server

Download and Install MABS

Configure VCSA Connection Credentials

Install VCSA Certificate

Install MABS Rollup Patches

Force MABS TLS Version

Add Disk Groups

Configure VM Max Snapshots

Create a New Protection Group

CHALLENGE

Configure Hyper-V Replication

Introducing Replication Services

Understand Hyper-V Replication

Replication Prerequisites

Failover Modes and Design Considerations

Configure Host Replication Settings

Configure VM Replication

Perform Failovers

CHALLENGE

Configure Azure VM Replication

Introducing Azure VM Recovery Options

Refreshing RTOs, RPOs, and ASR

Configure Basic Azure VM Replication

Understand Consistency and Failovers

Implement Azure VM Failovers

Configure Replication from within RSV

CHALLENGE

Replicate and Migrate VMWare VMs to Azure

Introducing Hybrid Replication and Migrations

Understand VMWare-to-Azure Replication

Prep All the Things

Deploy and Configure Appliance

Enable Replication

Perform Failovers

CHALLENGE

Use Azure Migrate to Migrate VMs

Introducing Azure Migrate

Deploy the Azure Migrate Appliance

Configure the Appliance

Perform Discovery and Assessment

Begin Replication

Complete a Test and Planned Migration

CHALLENGE

Migrate Storage with Windows Admin Center

Introducing Storage Migrations

Plan for Storage Migrations

Understand Migration Tools

Migrate Storage to a New Local Share with Storage Migration Service

Prep for Azure File Sync

CHALLENGE

Migrate Web Apps to Azure App Services

Introducing Web App Migrations

Understand the Migration Path

Install Dependencies

Scaffold and Deploy a Local Web App

Perform the Migration

CHALLENGE

Migrate Active Directory Domain Services to WS2025

Introducing Domain Migrations to Windows Server 2025

Understand the Reasons and Paths for Migration

Prep an Environment for Migration

Migrate the FSMO Roles

Decommission the Old Domain Controllers

Upgrade the Domain and Forest Functional Levels

CHALLENGE

Migrate Windows Roles to Windows Server 2025

Introducing Role Migration with Windows Server 2025

Hyper-V Migrations

IIS Migrations

Print Server Migrations

DHCP Migrations

RDS Migrations

CHALLENGE

Migrate to a New Forest

Introducing Forest Migrations

Establish a Trust

Create an Admin Account

Configure SID History Settings

Install SQL, ADMT, and PES

Perform the Migrations

CHALLENGE

Monitor Windows Machines

Introducing Windows Monitoring

Perfmon and Data Collector Sets

Event Viewer and Custom Views

Windows Admin Center Monitoring

System Insights

Azure Monitor

CHALLENGE

Troubleshoot and Repair Active Directory

Introducing Active Directory Troubleshooting

Use the Active Directory Recycle Bin

Restore Active Directory using DSRM

Restore SYSVOL

WEEK 2

Understand Replication

Use dcdiag.exe

Use repadmin.exe

CHALLENGE

Troubleshoot Azure Compute

Introducing Azure VM Troubleshooting

Troubleshoot Deployments

Troubleshoot Booting

Troubleshoot Performance

Troubleshoot Connectivity

Troubleshoot Extensions

Troubleshoot Disks

CHALLENGE