



# Mastering AZ-800 & AZ-801 for Windows Server 2022 and Azure Integration

5 – 9 April 2027  
Berlin

## Mastering AZ-800 & AZ-801 for Windows Server 2022 and Azure Integration

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### Course Overview:

The Windows Server Hybrid Administrator Associate Certification Prep Course is a 5-day intensive training designed for IT professionals aiming to achieve the Microsoft Certified: Windows Server Hybrid Administrator Associate credential. Aligned with both the AZ-800 and AZ-801 certification exams, this course equips participants with in-depth knowledge of Windows Server hybrid core infrastructure and Windows Server advanced services. Participants will explore Windows Server 2022 deployment, identity integration, high availability, failover clustering, storage solutions, Azure hybrid services, and security best practices. Through hands-on labs, structured modules, and guided reviews, attendees will master the core competencies required to pass the exams and thrive in hybrid enterprise environments.

### Target Audience:

- System Administrators
- IT Infrastructure Specialists
- Network Administrators
- Windows Server Engineers
- Azure Administrators
- Hybrid Cloud Support Technicians
- IT Professionals

### Targeted Organizational Departments:

- IT Operations
- Infrastructure Management
- Cloud & Hybrid IT
- Cybersecurity & Compliance
- Data Center Management
- Enterprise Architecture
- Digital Transformation Teams

## Targeted Industries:

- IT Services and Managed Service Providers
- Government and Public Sector
- Financial Services and Banking
- Healthcare and Hospitals
- Energy and Utilities
- Telecommunications
- Manufacturing
- Education and Academic Institutions

## Course Offerings:

By the end of this course, participants will be able to:

- Configure and manage Windows Server 2022 in hybrid environments
- Implement and troubleshoot Active Directory DS, DNS, DHCP, and Group Policy
- Deploy and manage Hyper-V, containers, and IaaS VMs in Azure
- Secure hybrid environments using Microsoft Defender for Identity and Windows Admin Center
- Configure failover clustering and Storage Spaces Direct
- Migrate on-premises servers to Azure and ensure disaster recovery
- Monitor hybrid workloads with Azure Monitor, Log Analytics, and Windows Admin Center
- Prepare thoroughly for the Microsoft AZ-800 and AZ-801 certifications

## Training Methodology:

The course employs a blended learning model combining instructor-led training, interactive group discussions, real-world case studies, and live lab simulations. Participants engage in scenario-based exercises designed to reinforce theoretical concepts and develop hands-on expertise. Each session includes feedback loops, peer collaboration, and structured review. The course methodology prioritizes practical skills needed in enterprise deployments and certification success.

## Course Toolbox:

- Windows Server 2022 Evaluation ISO for labs
- PowerShell scripting cheat sheets
- Azure free tier access setup instructions
- Workbook with lab exercises, checklists, and command reference
- Weekly practice exams and scenario walkthroughs

## Course Agenda:

### Day 1: Hybrid Identity & Core Infrastructure

- **Topic 1:** Deploy and Manage Active Directory Domain Services AD DS
- **Topic 2:** Configure Group Policies and Preferences
- **Topic 3:** Implement Azure AD Connect and Hybrid Identity
- **Topic 4:** Manage Users and Groups in Hybrid Environments
- **Topic 5:** Join Devices to AD DS, Azure AD, and Azure AD DS
- **Topic 6:** Manage GPO in On-Prem and Azure AD DS
- **Reflection & Review:** Identity synchronization and group policy control

### Day 2: Server Management & Virtualization

- **Topic 1:** Configure Windows Admin Center and Remote Access
- **Topic 2:** Implement PowerShell Remoting and Just Enough Administration JEA
- **Topic 3:** Manage Windows Servers with Azure Arc
- **Topic 4:** Deploy and Manage Hyper-V Virtual Machines
- **Topic 5:** Configure VM Settings: CPU, Memory, Integration Services
- **Topic 6:** Create and Manage Windows Containers
- **Reflection & Review:** Virtualization management across hybrid platforms

### Day 3: Networking & Storage

- **Topic 1:** Configure DNS Zones, Conditional Forwarding, and DNSSEC
- **Topic 2:** Manage DHCP Servers, Scopes, and Reservations
- **Topic 3:** Implement IPAM and Resolve IP Conflicts
- **Topic 4:** Configure File Shares, DFS, and Access Controls
- **Topic 5:** Implement Azure File Sync and Tiering
- **Topic 6:** Manage Storage Spaces, Volumes, and Deduplication
- **Reflection & Review:** Reliable networking and scalable storage planning



## Day 4: High Availability & Security

- **Topic 1:** Deploy and Configure Failover Clusters
- **Topic 2:** Implement and Manage Storage Spaces Direct
- **Topic 3:** Configure Cluster Roles, Quorum, and Node Management
- **Topic 4:** Secure Windows Server using Defender and Credential Guard
- **Topic 5:** Harden Active Directory and Protect Domain Controllers
- **Topic 6:** Monitor and Manage Windows Server Security Posture
- **Reflection & Review:** Designing secure, resilient Windows Server infrastructures

## Day 5: Disaster Recovery & Monitoring

- **Topic 1:** Implement Backup and Recovery with Azure Backup Server
- **Topic 2:** Configure Azure Site Recovery for Failover
- **Topic 3:** Migrate On-Prem Workloads to Azure
- **Topic 4:** Monitor Server Health with Performance Monitor and Insights
- **Topic 5:** Troubleshoot Windows Server Hybrid Connectivity and AD Issues
- **Topic 6:** Certification Exam Preparation: Practice Scenarios and Questions
- **Reflection & Review:** Final exam readiness and real-world applications

## FAQ:

### What specific qualifications or prerequisites are needed for participants before enrolling in the course?

Participants should have 1–2 years of hands-on experience with Windows Server administration and basic knowledge of Azure services.

### How long is each day's session, and is there a total number of hours required for the entire course?

Each day's session is generally structured to last around 4–5 hours, with breaks and interactive activities included. The total course duration spans five days, approximately 20–25 hours of instruction.

### How is failover clustering implemented across hybrid environments?

Failover clustering can be deployed using shared storage or stretched clusters across datacenters or Azure regions, with Azure Cloud Witness and Storage Replica supporting hybrid replication and quorum configurations.



## **How This Course is Different from Other Windows Server Certification Courses:**

Unlike many generic server training programs, this course is purpose-built to prepare professionals for both the Microsoft AZ-800 and AZ-801 certifications under the Windows Server Hybrid Administrator Associate credential. It integrates real exam scenarios, detailed concept breakdowns, and hands-on walkthroughs using Microsoft's latest hybrid infrastructure tools. The course emphasizes enterprise application with real-world labs, Azure integration, and updated certification-aligned content. Participants leave not just with exam readiness, but with skills they can immediately apply to hybrid infrastructure management, troubleshooting, and modernization initiatives.