

# Deploy and manage Azure Arc-enabled Servers (AZ-1010)

## Description

### Deploy and Manage Your Servers with Azure Arc

Managing hybrid and multicloud servers is a major challenge for administrators. With the “Deploy and Manage Servers with Azure Arc (AZ-1010)” training, you will learn how to integrate non-Azure servers into the Microsoft ecosystem. This course enables you to secure, monitor, and optimize your infrastructure using Azure’s advanced tools.

This comprehensive program guides you through server deployment with Azure Arc, update management, and security optimization with Microsoft Defender for Cloud. You will also explore how to automate server administration using scripts and Azure Policy strategies.

### Master Hybrid Server Management

Through this training, you will develop essential skills to manage both on-premises and cloud machines at scale. You will learn best practices to ensure compliance and security in your environments while maximizing operational efficiency. This learning path is designed for IT administrators looking to deepen their expertise in Azure Arc and optimize their infrastructure management.

## Course Content

### Module 1 : Introduction to Azure Arc-enabled Servers

- Understand the characteristics and capabilities of Azure Arc-enabled servers
- Explore use cases for Azure Arc-enabled servers
- Discover core management and governance features
- Learn about security and monitoring functionalities

### Module 2 : Plan and Deploy Azure Arc-enabled Servers at Scale

- Overview of Azure Arc-enabled servers and their capabilities
- Test Azure Arc-enabled server features using Azure virtual machines
- Plan a secure configuration for server deployment
- Explore different methods to onboard servers at scale
- Apply best practices for managing Azure Arc-enabled servers

### Module 3 : Govern Hybrid and Multicloud Machines with Azure Arc-enabled Servers

- Manage Azure Arc-enabled servers with Azure Policy Guest Configuration
- Assign Azure Policies for governance and compliance
- Implement best practices for Azure Automanage
- Modernize deployment, response, and orchestration using Azure Automation

### Module 4 : Configure Updates for Azure Arc-enabled Servers with Azure Update Manager

- Understand Azure Update Manager and its features
- Learn how to manage updates for Azure Arc-enabled servers
- Create and schedule maintenance configurations

- Associate virtual machines with maintenance schedules

## **Module 5 : Configure Microsoft Defender for Cloud for Azure Arc-enabled Servers**

- Understand Microsoft Defender for Cloud
- Secure cloud applications and workloads
- Connect non-Azure machines to Microsoft Defender for Cloud
- Integrate on-premises machines using Azure Arc
- Connect on-premises machines through the Azure portal
- Onboard and secure Windows and Linux servers
- Verify machine connectivity and security status

## **Module 6 : Manage Azure Arc-enabled Servers Using Scripting**

- Connect hybrid machines to Azure using deployment scripts
- Use PowerShell to automate server management
- Manage machines at scale with PowerShell scripts and Configuration Manager

## **Module 7 : Guided Exercise - Manage On-premises Windows Servers with Azure Arc**

- Onboard Windows servers to Azure Arc
- Manage Azure Arc-enabled Windows servers with Azure Policy
- Enhance security of Azure Arc-enabled Windows servers using Microsoft Defender for Cloud
- Monitor Azure Arc-enabled Windows servers using Azure Monitor
- Manage updates of Azure Arc-enabled Windows servers with Azure Update Manager
- Configure on-premises Windows servers using Azure virtual machine extensions and CLI

## **Lab / Exercises**

- This course provides you with exclusive access to the official Microsoft lab, enabling you to practice your skills in a professional environment.

## **Documentation**

- Access to Microsoft Learn, Microsoft's online learning platform, offering interactive resources and educational content to deepen your knowledge and develop your technical skills.

## **Participant profiles**

- System and network administrators
- Cloud engineers
- IT infrastructure consultants
- Information security managers

## **Prerequisites**

- Experience using the Azure portal to create resources
- Basic knowledge of security concepts (identities, permissions, encryption)
- Understanding of networking concepts (virtual networks, subnets, hybrid scenarios)

## **Objectives**

- Deploy and integrate servers with Azure Arc
- Plan and automate update management
- Enhance security with Microsoft Defender for Cloud

- Configure governance and compliance strategies
- Monitor and track server performance
- Automate server management using scripts

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**Niveau**

Intermédiaire

**Classroom Registration Price (CHF)**

900

**Virtual Classroom Registration Price (CHF)**

850

**Duration (in Days)**

1

**Reference**

AZ-1010