



Deploy & Manage Azure Arc-Enabled Servers (AZ-1010)

COURSE OVERVIEW

In this learning path, you're introduced to Azure Arc-enabled servers. You'll cover Arc-enabled server deployment, updates to Arc-enabled servers using Azure Update Manager and configuring Microsoft Defender for Cloud for Azure Arc-enabled servers.

PREREQUISITES

- Experience using the Azure portal to create resources.
- Basic knowledge of security concepts like identities, permissions, and encryption.
- Basic knowledge of networking concepts like virtual networks, subnetting, and hybrid scenarios.
- Basic knowledge of Azure Policy and Azure Arc concepts.

COURSE OBJECTIVES

Module in the Learning Path:

- Introduction to Azure Arc-Enabled Servers
- Plan & Deploy Azure Arc-Enabled Servers at Scale
- Govern your hybrid and multicloud machines through Azure Arc-enabled servers
- Configure updates of Azure Arc-enabled servers by using Azure Update Manager
- Configure Microsoft Defender for Cloud for Azure Arc-enabled servers
- Manage Azure Arc-enabled servers by using scripting
- Guided exercise - Manage on-premises Windows servers by using Azure Arc

COURSE OUTLINE

Introduction to Azure Arc-Enabled Servers:

This module introduces you to Azure Arc-enabled servers and describes its characteristics, capabilities, and use cases.

- What are the characteristics of Azure Arc-enabled servers?
- What are the core management and governance capabilities of Azure Arc-enabled servers?
- What are the security and monitoring capabilities of Azure Arc-enabled servers?

Plan & Deploy Azure Arc-Enabled Servers at Scale:

Azure Arc promises to bridge the gap between on-premises and cloud environments. Azure Arc-enabled servers extends the consistent security, observability, and governance of the Azure platform to non-Azure machines. In this module, you'll learn about planning and securely deploying Azure Arc-enabled servers at scale.

- What is Azure Arc-enabled servers and its capabilities?

- Test Azure Arc-enabled servers capabilities using Azure VMs
- Planning considerations for a secure configuration
- Explore different methods to onboard servers at scale to Azure Arc
- Best practices for Azure Arc-enabled servers management and services in Azure

Govern your hybrid and multicloud machines through Azure Arc-enabled servers:

Azure Arc promises to bridge the gap between on-premises and cloud environments. Azure Arc extends the consistent security, observability, and governance of the Azure platform to non-Azure machines. In this module, you learn about governance of Azure Arc-enabled servers.

- Govern Azure Arc-enabled servers with Azure Policy Guest Configuration
- Assign Azure Policies to govern Azure Arc-enabled servers
- Azure Automate best practices for Azure Arc-enabled servers
- Modernize deployment, response, and orchestration of Azure Arc-enabled servers with Azure Automation

Configure updates of Azure Arc-enabled servers by using Azure Update Manager:

Update Manager is a unified service that helps manage and govern updates for all your machines. It allows you to monitor Windows and Linux update compliance across Azure and on-premises from a single dashboard.

- Azure Update Manager
- Azure Update Manager key features
- How to manage updates for Azure Arc-enabled servers
- Create a maintenance configuration schedule
- Associate a virtual machine with a schedule

Configure Microsoft Defender for Cloud for Azure Arc-enabled servers:

By the end of this module, you'll understand how Microsoft Defender for Cloud for Azure Arc-enabled servers can help you protect your cloud-based applications from various cyber threats.

- What is Microsoft Defender for Cloud?
- Secure cloud applications
- Protect cloud workloads
- Connect your non-Azure machines to Microsoft Defender for Cloud
- Connect on-premises machines by using Azure Arc
- Connect on-premises machines by using the Azure portal
- Onboard a Windows server
- Onboard a Linux server
- Verify that your machines are connected

Manage Azure Arc-enabled servers by using scripting:

This module covers the topic of enabling Azure Arc for Windows or Linux machines in your environment. Enabling Arc-enabled servers is done either manually or by using an automated method with a provided template script.



- Connect hybrid machines to Azure using a deployment script
- Connect hybrid machines to Azure by using PowerShell
- Connect machines at scale by running PowerShell scripts with Configuration Manager

Guided exercise - Manage on-premises Windows servers by using Azure Arc:

In this guided exercise, you practice onboarding, securing, monitoring, and updating on-premises Windows servers by using Azure Arc. The guided exercise combines both learning and hands-on practice.

- Exercise 1 - Onboard Windows servers to Azure Arc
- Exercise 2 - Manage Azure Arc-enabled Windows servers by using Azure Policy
- Exercise 3 - Enhance security of Azure Arc-enabled Windows servers by using Microsoft Defender for Cloud
- Exercise 4 - Monitor Azure Arc-enabled Windows servers by using Azure Monitor
- Exercise 5 - Manage updates of Azure Arc-enabled Windows servers by using Azure Update Manager
- Exercise 6 - Configure on-premises Windows servers by using Azure virtual machine extensions and CLI

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