



AZ-1010: Deploy and manage Azure Arc-enabled Servers

Course ID #: 7000-989-ZZ-Z

Hours: 7

Course Content

Course Description:

In this course, 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.

Topics:

Lesson 1: Introduction to Azure Arc-enabled servers

- Introduction
- 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?
- Summary

Lesson 2: Plan and deploy Azure Arc-enabled servers at scale

- Introduction
- 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
- Module assessment
- Summary



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Lesson 3: Govern your hybrid and multicloud machines through Azure Arc-enabled servers

- Introduction
- 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
- Module assessment
- Summary

Lesson 4: Configure updates of Azure Arc-enabled servers by using Azure Update Manager

- Introduction
- 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
- Module assessment
- Summary

Lesson 5: Configure Microsoft Defender for Cloud for Azure Arc-enabled servers

- Introduction
- 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
- Module assessment
- Summary

Lesson 6: Manage Azure Arc-enabled servers by using scripting

- Introduction
- 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
- Module assessment
- Summary



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Lesson 7: Guided exercise - Manage on-premises Windows servers by using Azure Arc

- Introduction
- 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
- Module assessment
- Summary

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NASBA Information

Level: Intermediate

Attendance Requirement: To be awarded the full credit hours, you must sign in and attend the entire course.

Fields: Computer Software & Applications

CPEs: 14

Policies: Course Registration, Cancellation, Refund and Complaint Resolution

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