# Deploy and Manage Azure Arc-enabled Servers - Applied Skills Workshop Training

Duration: **1 Day**

BILGINÇ IT Academy
info@bilginc.com
bilginc.com

This workshop focuses on extending Azure management capabilities beyond Azure environments through Azure Arc-enabled servers. Participants will learn how to onboard, manage, secure, and monitor physical and virtual servers running on-premises or across multiple cloud providers from a centralized Azure platform.

The course covers governance, security, update management, and automation capabilities that help organizations maintain consistency across hybrid and multi-cloud infrastructures.

## Prerequisites

Participants are recommended to have:

- Experience creating and managing resources within the Azure Portal
- Basic understanding of security concepts such as authentication, authorization, and encryption
- Familiarity with networking concepts including virtual networks and hybrid connectivity
- Foundational knowledge of Azure Arc and Azure Policy

## Who Should Attend

This course is designed for:

- System Administrators responsible for both cloud and on-premises environments
- IT Professionals managing hybrid infrastructure
- Cloud Administrators integrating non-Azure resources into Azure management services
- Operations teams seeking centralized governance and monitoring capabilities

## What You Will Learn

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

- Onboard and configure Azure Arc-enabled servers
- Apply governance and compliance policies using Azure Policy
- Strengthen security with Microsoft Defender for Cloud
- Manage operating system updates through Azure Update Manager
- Monitor and scale hybrid server environments from Azure
- Automate operational tasks using PowerShell, Azure CLI, and scripting tools

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## Training Outline

### Introduction to Azure Arc-enabled Servers

- Azure Arc architecture and capabilities
- Business benefits and common use cases
- Hybrid and multi-cloud management scenarios

### Planning and Deploying at Scale

- Deployment planning strategies
- Security considerations
- Large-scale onboarding of physical and virtual servers

### Governance with Azure Policy

- Policy assignment and compliance monitoring
- Enforcing organizational standards
- Governance across hybrid infrastructures

### Update Management with Azure Update Manager

- Managing Windows and Linux updates
- Scheduling and automation options
- Maintaining security and operational stability

### Securing Servers with Microsoft Defender for Cloud

- Threat detection capabilities
- Vulnerability assessment and remediation
- Continuous security monitoring

### Automation and Operational Efficiency

- Managing resources with Azure CLI
- PowerShell automation techniques
- Streamlining repetitive administrative tasks

### Guided Hands-on Lab

Participants will gain practical experience by:

- Connecting Windows and Linux servers to Azure Arc
- Implementing governance and security controls
- Monitoring and managing hybrid resources through Azure