

Reference Guide

Microsoft Azure Fundamentals Collection (AZ-900)

skilable

The Challenge Labs detailed below are designed to support cloud service professionals who are newer to Azure and seeking fundamental knowledge of Azure services, workloads, security, privacy, compliance, and trust. Challenge Labs within the [Microsoft Azure Fundamentals Collection](#) is short in duration, scenario based, hands-on activity that includes a means of self-assessment.

This collection is comprised of 30 Challenge Labs and contains over 14 hours of hands-on practice. Challenge Labs are to reinforce or expand upon concepts that are covered in the Microsoft role-based training courses and provide additional hands-on experience as you prepare for the related certification exam.

IMPORTANT!!

Before you or your students begin, please ensure you have set aside enough time to complete Challenge Labs as you will not be able to pause, save, or return to your progress.

Getting Started – approximately 60 minutes to complete

Guided Challenge – approximately 30 minutes to complete

Advanced Challenge – approximately 45 minutes to complete

The listing below shows which Challenge Labs within this collection support the [AZ-900: Microsoft Azure Fundamentals Exam Competencies](#).

Describe Cloud Concepts (15-20%)

Challenge Labs Name

	ID
Getting Started with Hybrid Cloud Solutions [Getting Started]	HCS-000
Enable Azure VM Scale Sets for High Availability and Scalability [Guided]	HCS-009

Describe Core Azure Services (15-20%)

Challenge Labs Name

	ID
Configure Virtual Network Connectivity Using Peering [Guided]	APP-002
Can You Configure Network Security Groups (NSGs) to Allow Application and Database Traffic? [Advanced]	APP-003
Create and Configure Application Security Groups [Guided]	APP-004
Configure Azure Disk Encryption [Guided]	APP-005

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Configure Security Using the Azure Kubernetes Service (AKS) [Guided]	APP-007
Configure Azure Virtual Network Peering [Guided]	AZ300.2-006
Manage Azure Resource Groups [Guided]	AZ900-002
Create an Azure Function App [Guided]	AZ900-004
Configure Azure Role Based Access Control [Guided]	AZ900-008
Deploy an Azure Virtual Machine [Guided]	AZ900-011
Provision an Azure Cosmos DB [Guided]	CSST-007
Getting Started with Hybrid Cloud ARM [Getting Started]	HCARM-000
Configure a Route Table Using the Azure Portal [Guided]	IaaS AD-004

Describe core solutions and management tools on Azure (10-15%)

Challenge Labs Name

	ID
Automate Deployment of Virtual Machines by Using ARM Templates [Guided]	AZ300.1-005
Can You Automate Deployment of Virtual Machines? [Advanced]	AZ300.1-008
Manage Azure Resource Deployment by Using an Azure Resource Manager Template [Guided]	AZ900-001
Run Commands by Using Azure Cloud Shell [Guided]	AZ900-003
Create an Azure Logic App [Guided]	AZ900-005
Configure Monitoring by Using Azure Monitor [Guided]	AZ900-010
Ingest IoT Data with the Azure IoT Hub [Guided]	CSIOT-001
Manage IoT Devices with Azure IoT Hub [Guided]	CSIOT-002
Design Azure App Service Web Apps [Guided]	HCARM-001

Describe general security and network security features (10-15%)

Challenge Labs Name

	ID
Configure an Azure Distributed Denial of Service Protection Plan [Guided]	AZ900-006
Manage Encryption by Using an Azure Key Vault [Guided]	AZ900-007
Implement a Network Security Group [Guided]	AZ900-014

Describe identity, governance, privacy, and compliance features (20- 25%)

Challenge Labs Name

	ID
Getting Started with Azure Active Directory [Getting Started]	AZ300.3-000
Implement Multifactor Authentication for Azure AD Users [Guided]	AZ300.3-009
Implement Conditional Access Policies [Guided]	AZ300.3-010
Configure an Azure Lock [Guided]	AZ900-009
Manage Azure Active Directory Users and Groups [Guided]	AZ900-013

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Configure RBAC Access for VM Contributor [Guided]

Iaas AD-010

Describe Azure cost management and Pricing, Service Level Agreements, and Lifecycles (10-15%)

Challenge Labs Name

Azure Cost Management [Guided]

ID

AZ900-015