

Reference Guide

Microsoft Azure Administrator Collection (AZ-104)



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To support the Microsoft Azure role-based certification and training courses, Skillable has launched a dedicated collection of Challenge Labs to support Azure Administrators who manage cloud services that span storage, security, networking, and compute cloud capabilities. Challenge Labs within the [Microsoft Azure Administrator Collection](#) are short in duration, scenario based, hands-on activity that includes a means of assessment.

This collection is comprised of 60 Challenge Labs and contains over 34 hours of hands-on practice and supports the [Microsoft Exam AZ-104: Microsoft Azure Administrator](#) competencies.

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

Expert Challenge – approximately 60 minutes to complete

The listing below shows which Challenge Labs within this collection support the Microsoft AZ-104: Microsoft Azure Administrator Exam Competencies. **Note: Challenge Labs may support more than one competency.*

Manage Azure Identities and Governance (15-20%)

Challenge Labs Name

ID

Deploy an ARM Template That Contains a PowerShell DSC Extension [Guided]	AIS-008
Can You Automate and Monitor VMs Using Extensions and Azure Monitor? [Advanced]	AIS-009
Can You Automate and Manage Custom, Scalable Azure VM-Based Infrastructure Solutions? [Expert]	AIS-010
Can You Deploy a Web App with Database Authentication using Azure AD? [Expert]	HCS-011
Configure Custom DNS Zone for Private Domain [Guided]	IaaS AD-007

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Implement and Manage Storage (10-15%)

Challenge Labs Name

	ID
Configure a Virtual Network Service Endpoint [Guided]	ANS-005
Can You Manage a Serverless Compute Environment? [Advanced]	CSAA-003
Provision an Azure Storage Table [Guided]	CSAA-007
Provision an Azure Storage Queue [Guided]	CSAA-008
Can You Manage PaaS Storage Services to Support an Application? [Advanced]	CSAA-009
Configure Blob Storage with Public Access [Guided]	CSST-001
Configure Blob Storage with Private Access [Guided]	CSST-002
Can You Provision Public and Private Blob Storage for a Web App? [Advanced]	CSST-003
Provision an Azure SQL Server Database [Guided]	CSST-004
Provision an Azure Database for MySQL Database [Guided]	CSST-005
Provision an Azure Cosmos DB [Guided]	CSST-007
Provision an Azure Search Service [Guided]	CSST-008
Can You Provision No SQL Data for a Web App? [Advanced]	CSST-009
Can You Provision Data Storage for a Web App? [Expert]	CSST-010
Can You Develop an Azure Mobile App That Uses an Azure SQL Database? [Advanced]	HCARM-003
Monitor an Azure Virtual Machine [Guided]	HCARM-005

Deploy and Manage Azure Compute Resources (25-30%)

Challenge Labs Name

	ID
Getting Started with Azure Automation Services [Getting Started]	AA-000
Manage an Azure VM Using Cloud Shell [Guided]	AA-001
Deploy an Azure VM Using PowerShell [Guided]	AA-002
Can You Enable and Configure Just-In-Time VM Access in Security Center? [Advanced]	AA-003
Can You Execute a Runbook Against a Hybrid Runbook Worker? [Advanced]	AA-006
Monitor and Resolve Security Issues Using Security Center [Guided]	AA-007
Configure Update Management for On-Premises Systems by Using Azure Automation Accounts? [Expert]	AA-010
Getting Started with Azure Infrastructure Solutions [Getting Started]	AIS-000
Create Linux Virtual Machines in an Availability Set [Guided]	AIS-001
Configure a Virtual Machine Scale Set [Guided]	AIS-002
Configure Security by Using the Azure Kubernetes Service (AKS) [Guided]	APP-007
Provision an Azure Container Instance [Guided]	CSAA-004a
Provision an Azure Container Registry [Guided]	CSAA-004r
Can You Provision a Serverless Container-Based Environment? [Advanced]	CSAA-006
Can You Design and Implement a Storage Solution on an Azure Virtual Machine? [Advanced]	HCARM-006

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Deploy an Application by Using Azure Kubernetes Service [Guided]	HCARM-007
Can You Create a Serverless API by Using Azure Functions? [Advanced]	MCARM-009
Can You Deploy Hybrid Cloud Azure Solutions Using ARM Templates? [Expert]	HCARM-010
Getting Started with Hybrid-Cloud Azure Solutions by Using ARM Templates? [Getting Started]	HCS-000
Provision an Azure Virtual Machine that hosts SQL Server [Guided]	HCS-004
Enable High Availability by Using Availability Sets [Guided]	HCS-005
Can You Deploy Azure Virtual Machines for Multi-Tier Apps? [Advanced]	HCS-007

Configure and Manage Virtual Networking (30-35%)

Challenge Labs Name

ID

Work with Managed Disk Snapshots [Guided]	AIS-003
Can You Configure a Load-Balanced Virtual Machine Scale Set? [Advanced]	AIS-004
Configure Near Real-time Metric Alerts [Guided]	AIS-005
Configure a Virtual Machine by Using a Custom Script Extension [Guided]	AIS-006
Configure a Virtual Machine by Using a PowerShell DSC Extension [Guided]	AIS-007
Getting Started with Azure Network Security [Getting Started]	ANS-000
Configure a Network Security Group in a Virtual Network [Guided]	ANS-001
Configure Route Tables in a Virtual Network [Guided]	ANS-002
Configure Global Virtual Network Peering [Guided]	ANS-003
Can You Implement a Secure Azure Virtual Machine Network? [Advanced]	ANS-004
Can You Implement Security for an Azure Web App? [Advanced]	ANS-007
Configure Virtual Networks [Guided]	HCS-006
Deploy Resources by Using Azure Resource Manager Template [Guided]	HCS-008
Enable Azure Virtual Machine Scale Sets for High Availability and Scalability [Guided]	HCS-009
Can You Deploy Scalable Azure Solutions Using ARM Templates? [Advanced]	HCS-010
Configure Custom DNS Zone for Private Domain [Guided]	IaaS-007

Monitor and Back Up Azure Resources (10-15%)

Challenge Labs Name

ID

Configure Application Insights [Guided]	CSMMS-005
Can You Monitor a Web App? [Advanced]	CSMMS-007
Deploy Workloads on Azure Resource Manager Virtual Machines [Guided]	HCARM-004
Configure RBAC Access for VM Contributor [Guided]	IaaS AD-010