

Reference Guide

Microsoft Azure Architect Design Collection (AZ-304)



To support the Microsoft Azure role-based certification and training courses, Skillable has launched a dedicated collection of Challenge Labs to support Azure Architects who have experience in the areas of Azure Administration, Azure Development, and DevOps. Challenge Labs within the [Microsoft Azure Architect Design Collection](#) are short in duration, scenario based, hands-on activity that includes a means of assessment.

This collection is comprised of over 55 Challenge Labs and contains over 28 hours of hands-on practice and supports the [Microsoft Exam AZ-304: Microsoft Azure Architect Design](#) competencies.

IMPORTANT!!

Before you or your students begin, please ensure you have set aside enough time to complete this challenge 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 support the specified Microsoft Exam AZ-304: Microsoft Azure Architect Design competencies. **Note: Challenge Labs may support more than one competency.*

Design Monitoring (10-15%)

Challenge Labs Name

Configure Monitoring by Using Azure Monitor [Guided]

Azure Cost Management [Guided]

Getting Started with Azure Web App Management and Monitoring [Getting Started]

Configure Application Insights [Guided]

Can You Monitor a Web App? [Advanced]

Configure Application Insights and Log Retention for Web Apps [Guided]

ID

AZ900-010

AZ900-015

CSMMS-000

CSMMS-005

CSMMS-007

SDA-001

Design Identity and Security (25-30%)

Challenge Labs Name

Configure a Virtual Network Service Endpoint [Guided]

ID

ANS-005

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Configure an Application Security Group [Guided]	APP-003
Configure Security by Using the Azure Kubernetes Service (AKS) [Guided]	APP-007
Implement Network Security Groups and Application Security Groups [Guided]	AZ300.2-003
Implement Multi-Factor Authentication for Azure Active Directory User [Guided]	AZ300.3-009
Implement an Azure Conditional Access Policy [Guided]	AZ300.3-010
Can You Control Azure Active Directory Authentication and Access? [Advanced]	AZ300.3-011
Manage Encryption by Using an Azure Key Vault [Guided]	AZ900-007
Secure a Storage Account [Guided]	CSMMS-008
Secure Azure SQL Server [Guided]	CSMMS-009
Store Sensitive Data in Azure Key Vault [Guided]	CSMMS-010
Can You Secure Azure Platform Services? [Advanced]	CSMMS-011
Can You Populate an Azure SQL Database by Using Azure Data Factory [Advanced]	DADS-008
Design Role Based Access Control (RBAC) for Data Lake Storage Account [Guided]	DADS-010
Getting Started with Azure Secure Data & Applications [Getting Started]	SDA-000
Configure Application Insights and App Service Logs for a Web App [Guided]	SDA-001
Can You Enable Security for an Azure SQL Database? [Advanced]	SDA-006
Can You Manage Security for Virtual Machines and Databases? [Expert]	SDA-010

Design Data Storage (15-20%)

Challenge Labs Name

	ID
Can You Manage PaaS Storage Services to Support an Application? [Advanced]	CSAA-009
Can You Integrate Blob Storage into a Web App? [Advanced]	CSSD-003
Can You Design an Azure Synapse Analytics solution? [Advanced]	DADS-004
Design a Mapping Data Flow by Using Azure Data Factory [Guided]	DADS-006
Enable Azure Data Lake Storage [Guided]	IADS-005
Provision Azure Data Factory [Guided]	IADS-007
Can You Implement Data Movement with Azure Data Factory? [Advanced]	IADS-008
Deploy Azure Synapse Analytics [Guided]	IADS-011
Can You Optimize and Monitor Azure Synapse Analytics? [Advanced]	IADS-012
Can You Populate Azure Synapse Analytics Using Azure Data Factory? [Expert]	IADS-013

Design Business Continuity (10-15%)

Challenge Labs Name

	ID
Autoscale a Web App [Guided]	CSMMS-003
Design Azure SQL Database Design for Disaster Recovery [Guided]	DADS-002
Enable Geo-Replication of an Azure SQL Database [Guided]	IADS-002
Can You Implement an Azure SQL Database by Using Secure Distribution? [Advanced]	IADS-004
Configure Azure Monitor Alerts [Guided]	IADS-010

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Design Infrastructure (25-30%)

Challenge Labs Name

	ID
Configure a Network Security Group in a Virtual Network [Guided]	ANS-001
Create an API Management Instance [Guided]	ANS-008
Can You Implement API Management to Publish APIs Securely? [Advanced]	ANS-009
Can You Deliver Secure Services to Your Organization? [Expert]	ANS-010
Configure Virtual Network Connectivity Using Peering [Guided]	APP-002
Configure Security Using the Azure Kubernetes Service (AKS) [Guided]	APP-007
Can You Automate Deployment of Azure Virtual Machines? [Advanced]	AZ300.1-008
Can You Configure and Control Network Traffic? [Advanced]	AZ300.2-008
Migrate an Azure Virtual Machine by Using a Recovery Services Vault [Guided]	AZ300.2-010
Can You Manage Azure Network Connectivity and High Availability? [Expert]	AZ300.2-013
Create an Azure Function App [Guided]	AZ900-004
Create an Azure Logic App [Guided]	AZ900-005
Provision a Function App [Guided]	CSAA-001
Provision a Logic App [Guided]	CSAA-002
Can You Manage a Serverless Compute Environment? [Advanced]	CSAA-003
Provision an Azure Storage Queue [Guided]	CSAA-008
Can You Manage PaaS Storage Services to Support an Application? [Advanced]	CSAA-009
Stream Events by Using Azure Event Hubs [Guided]	IADS-006