

Reference Guide

Microsoft Azure Security Technologies Collection (AZ-500)



The Challenge Labs detailed below are designed to support Azure security engineers who implement security controls, maintain the security posture, manages identity and access and protects data, applications, and networks. Challenge Labs within the [Microsoft Azure Security Technologies Collection](#) are short in duration, scenario based, hands-on activity that includes a means of assessment.

This collection is comprised of over 20 Challenge Labs and contains over 12 hours of hands-on practice and supports the [Microsoft Exam AZ-500: Microsoft Azure Security Technologies](#) 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 support the specified Microsoft Exam AZ-500: Microsoft Azure Security Technologies competencies. **Note: A Challenge Lab may support more than one competency.*

Manage identity and access (20-25%)

Challenge Labs Name	ID
Configure Authentication for an Azure Web Apps [Guided]	APP-001
Can you Enable Secure Virtual Machines and Application Services? [Advanced]	SDA-003

Implement platform protection (35-40%)

Challenge Labs Name	ID
Getting Started with Azure Platform Protection [Getting Started]	APP-000
Configure Virtual Network Connectivity by using Peering [Guided]	APP-002
Configure an Application Security Group? [Advanced]	APP-003
Can You Configure Network to Allow Application Traffic [Guided]	APP-004
Configure Azure Disk Encryption [Guided]	APP-005

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skillable

Can you Harden Virtual Machines in Azure? [Advanced]	APP-006
Configure Security by Using the Azure Kubernetes Service (AKS) [Guided]	APP-007
Create Azure Resource Locks on a WebApp [Guided]	APP-008
Can you Configure Multi-Scope Network Security? [Advanced]	APP-009
Can you Configure Multi-Scope Resource Permissions? [Expert]	APP-010

Manage security operations (15-20%)

Challenge Labs Name	ID
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
Configure Security Recommendations for an Azure Virtual Machine [Guided]	SDA-002
Enable Azure Defender for SQL in an Azure SQL Database [Guided]	SDA-005

Secure data and applications (20-25%)

Challenge Labs Name	ID
Enable Database Auditing with Azure SQL Database [Guided]	SDA-004
Can you Enable Security for an Azure SQL Database? [Advanced]	SDA-006
Create and Manage Shared Access Signatures (SAS) Keys [Guided]	SDA-007
Configure Security for an Azure Cosmos DB Account [Guided]	SDA-008
Can you Implement Security for an Azure Cosmos DB Account and a Storage Account? [Advanced]	SDA-009
Can you Manage Security for Virtual Machines and Databases? [Expert]	SDA-010