

Reference Guide

Administering Relational Databases on Microsoft Azure



The Challenge Labs detailed below are designed to support Azure Database Administrators who implement and manage the operational aspects of cloud-native and hybrid data platform solutions built with Microsoft SQL Server and Microsoft Azure Data Services. Challenge Labs within the [Administering Relational Databases on Microsoft Azure Collection](#) are short in duration, scenario based, hands-on activity that includes a means of assessment.

This collection is comprised of over 35 Challenge Labs and contains over 20 hours of hands-on practice and supports the [Microsoft Exam DP-300: Administering Relational Databases on Microsoft Azure](#) 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 DP-300: Administering Relational Databases on Microsoft Azure competencies. **Note: A Challenge Lab may support more than one competency.*

Plan and Implement Data Platform Resources (15-20%)

Challenge Labs Name

ID

Access an Azure SQL Database by Using Azure AD Authentication [Guided]	ARDA-001
Enable an Azure Monitor Metric Alert for Azure SQL Database [Guided]	ARDA-010
Configure an Azure SQL Database Elastic Pool [Guided]	ARDB-001
Configure SQL Server in an Azure Virtual Machine [Guided]	ARDB-002
Implement a Database Migration Strategy [Guided]	ARDB-003
Can You implement a Database Migration Strategy? [Advanced]	ARDB-004
Can You Migrate a Database and Monitor Query Performance? [Expert]	ARDB-013

Implement a Secure Environment (15-20%)

Challenge Labs Name

	ID
Enable Dynamic Data Masking by Using Azure SQL Database [Guided]	AATS-002
Getting Started with Administering Relational Databases on Azure [Getting Started]	ARDA-000
Configure Dynamic Data Masking by Using Azure SQL Database [Guided]	ARDA-003
Design a Data Security Solution by Using a Service Endpoint [Guided]	ARDA-005
Develop an Always Encrypted Solution by Using Azure SQL Database [Guided]	ARDA-006
Configure Azure Disk Encryption for an Azure Virtual Machine That Hosts SQL Server [Guided]	ARDA-007
Can You Implement End-To-End Encryption by Using Azure SQL Database? [Advanced]	ARDA-008
Can You Implement End-To-End Security by Using Azure SQL Database? [Expert]	ARDA-013
Enable Always Encrypted with Azure SQL Database [Guided]	DADS-011
Implement Dynamic Data Masking by Using Azure SQL Database [Guided]	IADS-003
Getting Started with Azure Secure Data and Applications [Getting Started]	SDA-000

Monitor and Optimize Operational Resources (15-20%)

Challenge Labs Name

	ID
Configure Azure SQL Database Auditing [Guided]	ARDA-009
Enable Automatic Tuning in Azure SQL Database [Guided]	ARDA-011
Can You Optimize and Monitor Azure SQL Database? [Advanced]	ARDA-012
Assess Database Performance by Using Query Performance Insight [Guided]	ARDB-005
Configure Query Store to Collect Performance Data [Guided]	ARDB-006
Can You Automate Database Maintenance Tasks? [Advanced]	ARDB-012
Monitor Azure Storage [Guided]	AZ300.1-003

Optimize Query Performance (5-10%)

Challenge Labs Name

	ID
Improve Query Performance by Using an Index [Guided]	ARDB-007
Can You Optimize Query Performance? [Advanced]	ARDB-008
Automate Database Maintenance Tasks by Using SQL Server Agent [Guided]	ARDB-010
Can You Design an Azure Synapse Analytics Solution? [Advanced]	DADS-004

Perform Automation of Tasks (10-15%)

Challenge Labs Name

	ID
Monitor Azure Storage [Guided]	AZ300.1-003
Manage Azure VM Diagnostics [Guided]	AZ300.1-012

Plan and Implement a High Availability and Disaster Recovery (HADR)

Environment (15-20%)

Challenge Labs Name

ID

Getting Started with Administering Relational Databases on Azure (Series A) [Getting Started]	ARDA-000
Enable High Availability of an Azure SQL Database [Guided]	ARDA-002
Getting Started with Administering Relational Databases on Azure (Series B) [Getting Started]	ARDB-000
Enable Azure Backup for a SQL Server Database [Guided]	ARDB-009
Design an Azure SQL Database Design for Disaster Recovery [Guided]	DADS-002
Enable Geo-Replication of an Azure SQL Database [Guided]	IADS-002
Getting Started with Implement High Availability in Windows Server 2016 [Getting Started]	IHA-000

Perform Administration by Using T-SQL (10-15%)

Challenge Labs Name

ID

Perform a Database Consistency Check by Using DBCC [Guided]	ARDB-011
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