

Skillable has launched a dedicated collection of Challenge Labs to support Microsoft Azure data engineers who integrate, transform, and consolidate data from various structured and unstructured data systems into structures that are suitable for building analytics solution. Challenge Labs within the [Data Engineering on Microsoft Azure](#) is short in duration, scenario based, hands-on activity that includes a means of assessment.

This collection is comprised of over 40 Challenge Labs and contains over 20 hours of hands on practice and supports the [Microsoft Exam DP-203: Data Engineering 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-203: Data Engineering on Microsoft Azure competencies. **Note: A Challenge Lab may support more than one competency and some challenges may be in development.*

Microsoft Exam DP-203: Data Engineering on Microsoft Azure

Design and implement data storage (40-45%)

Challenge Labs Name

Can You Create, Manage and Monitor Azure Virtual Machines and Storage? [Expert]

Install and Configure Azure AD Connect [Guided]

Implement Self-Service Password Reset [Guided]

Implement Azure Policy [Guided]

Integrate a Cosmos DB SQL API Database [Guided]

Getting Started with Designing an Azure Data Solution [Getting Started]

Configure a Hierarchical Namespace for Azure Data Lake [Guided]

ID

AZ300.1-014

AZ300.3-001

AZ300.3-002

AZ300.3-004

CSSD-007

DADS-000

DEMB-004

Design Azure SQL Database Design for Disaster Recovery [Guided]	DADS-002
Enable Azure Data Lake Storage [Guided]	IADS-005
Can You Design an Azure Synapse Analytics Solution? [Advanced]	DADS-004
Can You Implement Data Distribution for Azure Synapse Analytics? [Advanced]	DEMB-003
Enable Partitioning for Azure Synapse Analytics [Guided]	DEMB-002
Design Role Based Access Control (RBAC) for Data Lake Storage Account [Guided]	DADS-010
Provision an Azure Cosmos DB Account [Guided]	IADS-001
Can You Design a Data Movement Solution by Using Azure Data Factory? [Expert]	DADS-013
Enable Table Distribution for Azure Synapse Analytics [Guided]	DEMB-001
Design an Azure Synapse Analytics SQL Pool [Guided]	DADS-003
Can You Populate Azure Synapse Analytics Using Azure Data Factory? [Expert]	IADS-013
Getting Started with Implementing an Azure Data Solution [Getting Started]	IADS-000
Design an Azure Cosmos DB Account for High Availability [Guided]	DADS-001
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
Stream Events by Using Azure Event Hubs [Guided]	IADS-006
Provision Azure Data Factory [Guided]	IADS-007
Enable Azure SQL Database Auditing [Guided]	IADS-009
Deploy Azure Synapse Analytics [Guided]	IADS-011
Can You Optimize and Monitor Azure Synapse Analytics? [Advanced]	IADS-012

Design and develop data processing (25-30%)

Challenge Labs Name	ID
Getting Started with Designing an Azure Data Solution [Getting Started]	DADS-000
Create an Apache Spark Job in Synapse Studio [Guided]	DEMA-008
Can You Design a Data Movement Solution by Using Azure Data Factory? [Expert]	DADS-013
Transform Data by Using Azure Data Factory [Guided]	DEMA-005
Can You Develop a Batch Processing Solution by Using Azure Data Factory, Synapse Analytics and Data Lake? [Expert]	DEMA-010
Can You Implement Data Movement with Azure Data Factory? [Advanced]	IADS-008
Can You Develop a Batch Processing Solution by Using Azure Data Factory and Data Lake? [Advanced]	DEMA-006
Can You Populate Azure Synapse Analytics Using Azure Data Factory? [Expert]	IADS-013
Getting Started with Implementing an Azure Data Solution [Getting Started]	IADS-000
Stream Events by Using Azure Event Hubs [Guided]	IADS-006
Provision Azure Data Factory [Guided]	IADS-007
Manage an Azure Event Hub [Guided]	DEMA-007
Can You Manage Apache Spark Jobs in a Pipeline by Using Azure Synapse Analytics? [Advanced]	DEMA-009

Design and implement data security (10-15%)

Challenge Labs Name

	ID
Install and Configure Azure AD Connect [Guided]	AZ300.3-001
Implement Self-Service Password Reset [Guided]	AZ300.3-002
Getting Started with Designing an Azure Data Solution [Getting Started]	DADS-000
Design Role Based Access Control (RBAC) for Data Lake Storage Account [Guided]	DADS-010
Enable Dynamic Data Masking for Azure Synapse Analytics [Guided]	DEMA-002
Enable Security for Azure Data Lake [Guided]	DEMA-004
Can You Design a Data Movement Solution by Using Azure Data Factory? [Expert]	DADS-013
Enable Auditing for Azure Synapse Analytics [Guided]	DEMA-001
Can You Implement Data Security for Azure Synapse Analytics? [Advanced]	DEMA-003

Monitor and optimize data storage and data processing (10-15%)

Challenge Labs Name

	ID
Getting Started with Designing an Azure Data Solution [Getting Started]	DADS-000
Can You Design Azure Synapse Analytics? [Advanced]	DADS-004
Can You Optimize a Batch Processing Solution by Using Azure Data Factory and Data Lake? [Advanced]	DEMB-006
Can You Develop a Batch Processing Solution by Using Azure Data Factory, Azure Synapse and Azure Data Lake? [Expert]	DEMB-010
Transform Data by Using Azure Data Factory [Guided]	DEMB-005
Monitor an Azure Event Hub [Guided]	DEMB-007
Monitor an Apache Spark job in Synapse Studio [Guided]	DEMB-008
Can You Populate Azure Synapse Analytics Using Azure Data Factory? [Expert]	IADS-013
Can You Manage Apache Spark Jobs in a Pipeline by Using Azure Synapse Analytics? [Advanced]	DEMB-009
Getting Started with Implementing an Azure Data Solution [Getting Started]	IADS-000
Implement Dynamic Data Masking by Using Azure SQL Database [Guided]	IADS-003
Enable Azure SQL Database Auditing [Guided]	IADS-009
Deploy Azure Synapse Analytics [Guided]	IADS-011
Can You Optimize and Monitor Azure Synapse Analytics? [Advanced]	IADS-012