

Study guide for Exam DP-900: Microsoft Azure Data Fundamentals

Summarize this article for me

Purpose of this document

This study guide should help you understand what to expect on the exam and includes a summary of the topics the exam might cover and links to additional resources. The information and materials in this document should help you focus your studies as you prepare for the exam.

Useful links	Description
Take a free Practice Assessment	Test your skills with practice questions to help you prepare for the exam.
Your Microsoft Learn profile	Connecting your certification profile to Microsoft Learn allows you to schedule and renew exams and share and print certificates.
Exam scoring and score reports	A score of 700 or greater is required to pass.
Exam sandbox	You can explore the exam environment by visiting our exam sandbox.
Request accommodations	If you use assistive devices, require extra time, or need modification to any part of the exam experience, you can request an accommodation.

Updates to the exam

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We always update the English language version of the exam first. Some exams are localized into other languages, and those are updated approximately eight weeks after the English version is updated. Although Microsoft makes every effort to update localized versions as noted, there may be times when the localized versions of an exam are not updated on this schedule. Other available languages are listed in the **Schedule Exam** section of the **Exam Details** webpage. If the exam isn't available in your preferred language, you can request an additional 30 minutes to complete the exam.

Note

The bullets that follow each of the skills measured are intended to illustrate how we are assessing that skill. Related topics may be covered in the exam.

Note

Most questions cover features that are general availability (GA). The exam may contain questions on Preview features if those features are commonly used.

Skills measured as of July 21, 2026

Audience profile

This exam is an opportunity to demonstrate your knowledge of core data concepts and related Microsoft Azure data services. As a candidate for this exam, you should have familiarity with Exam DP-900's self-paced or instructor-led learning material.

This exam is intended for you, if you're a candidate beginning to work with data in the cloud.

You should be familiar with:

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- The concepts of relational and non-relational data.
-
- Different types of data workloads such as transactional or analytical.

You can use Azure Data Fundamentals to prepare for other Azure role-based certifications like Azure Database Administrator Associate or Azure Data Engineer Associate, but it is not a prerequisite for any of them.

Skills at a glance

- Describe core data concepts (25–30%)
- Identify considerations for relational data on Azure (20–25%)
- Describe considerations for working with non-relational data on Azure (15–20%)
- Describe an analytics workload on Azure (25–30%)

Describe core data concepts (25–30%)

Describe ways to represent data

- Describe the features of structured data
- Describe the features of semi-structured data
- Describe the features of unstructured data

Identify options for data storage

- Describe common formats for data files

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- Describe features of common data stores including databases
- Identify Azure datastores for common use cases

Describe common data workloads

- Describe features of transactional workloads
- Describe features of analytical workloads

Identify roles and responsibilities for data workloads

- Describe responsibilities for database administrators
- Describe responsibilities for data engineers
- Describe responsibilities for data analysts

Identify considerations for relational data on Azure (20–25%)

Describe relational concepts

- Identify features of relational data
- Describe normalization and why it is used
- Identify common structured query language (SQL) statements
- Identify common database objects

Describe relational Azure data services

- Describe the Azure SQL family of products, including Azure SQL Database, Azure SQL Managed Instance, and SQL Server on Azure Virtual Machines
- Identify Azure database services for open-source database systems

Describe considerations for working with non-relational data on Azure (15–20%)

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Describe the capabilities of Azure storage

- Describe features of Azure Blob storage
- Describe features of Azure Files
- Describe features of Azure Table storage

Describe the capabilities and features of Azure Cosmos DB

- Identify use cases for Azure Cosmos DB
- Describe Azure Cosmos DB APIs

Describe an analytics workload (25–30%)

Describe common elements of large-scale analytics

- Describe considerations for data ingestion and processing
- Describe options for analytical data stores
- Describe Microsoft cloud services for large-scale analytics, including Azure Databricks and Microsoft Fabric

Describe considerations for real-time data analytics

- Describe the difference between batch and streaming data
- Identify Microsoft cloud services for real-time analytics

Describe data visualization in Microsoft Power BI

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- Identify the capabilities of Power BI
- Describe features of data models in Power BI
- Identify appropriate visualizations for data

Study resources

We recommend that you train and get hands-on experience before you take the exam. We offer self-study options and classroom training as well as links to documentation, community sites, and videos.

Study resources	Links to learning and documentation
Get trained	Choose from self-paced learning paths and modules or take an instructor-led course
Find documentation	Azure SQL documentation - Azure SQL SQL Server technical documentation - SQL Server Azure Blob Storage documentation Azure Table storage documentation Azure Storage documentation Azure Cosmos DB

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Study resources

Links to learning and documentation

Ask a question

[Microsoft Q&A | Microsoft Docs](#)

Get community support

[Analytics on Azure | TechCommunity](#)

[Azure Synapse Analytics | TechCommunity](#)

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Change log

The table below summarizes the changes between the current and previous version of the skills measured. The functional groups are in bold typeface followed by the objectives within each group. The table is a comparison between the previous and current version of the exam skills measured and the third column describes the extent of the changes.

Skill area prior to July 21, 2026	Skill area as of July 21, 2026	Change
Audience profile		No change
Describe core data concepts	Describe core data concepts	No change
Describe ways to represent data	Describe ways to represent data	Minor
Describe considerations for working with non-relational data on Azure	Describe considerations for working with non-relational data on Azure	No change
Describe the capabilities of Azure storage	Describe the capabilities of Azure storage	Minor
Describe an analytics workload	Describe an analytics workload	No change

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Skill area prior to July 21, 2026	Skill area as of July 21, 2026	Change
Describe considerations for real-time data analytics	Describe considerations for real-time data analytics	Minor

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