

# Exam DP-200: Implementing an Azure Data Solution – Skills Measured

**The content of this exam was updated on December 4, 2019. Please continue scrolling to the red line section below to view the changes.**

## Implement data storage solutions (40-45%)

### Implement non-relational data stores

- implement a solution that uses Cosmos DB, Data Lake Storage Gen2, or Blob storage
- implement data distribution and partitions
- implement a consistency model in Cosmos DB
- provision a non-relational data store
- provide access to data to meet security requirements
- implement for high availability, disaster recovery, and global distribution

### Implement relational data stores

- configure elastic pools
- configure geo-replication
- provide access to data to meet security requirements
- implement for high availability, disaster recovery, and global distribution
- implement data distribution and partitions for Azure Synapse Analytics
- implement PolyBase

### Manage data security

- implement data masking
- encrypt data at rest and in motion

## Manage and develop data processing (25-30%)

### Develop batch processing solutions

- develop batch processing solutions by using Data Factory and Azure Databricks
- ingest data by using PolyBase
- implement the integration runtime for Data Factory
- create linked services and datasets
- create pipelines and activities
- create and schedule triggers
- implement Azure Databricks clusters, notebooks, jobs, and autoscaling
- ingest data into Azure Databricks

## **Develop streaming solutions**

- configure input and output
- select the appropriate windowing functions
- implement event processing by using Stream Analytics
- ingest and query streaming data with Azure Data Explorer

## **Monitor and optimize data solutions (30-35%)**

### **Monitor data storage**

- monitor relational and non-relational data sources
- implement Blob storage monitoring
- implement Data Lake Storage monitoring
- implement SQL Database monitoring
- implement Azure Synapse Analytics monitoring
- implement Cosmos DB monitoring
- implement Azure Data Explorer monitoring
- configure Azure Monitor alerts
- implement auditing by using Azure Log Analytics

### **Monitor data processing**

- monitor Data Factory pipelines
- monitor Azure Databricks
- monitor Stream Analytics
- configure Azure Monitor alerts
- implement auditing by using Azure Log Analytics

### **Optimize Azure data solutions**

- troubleshoot data partitioning bottlenecks
- optimize Data Lake Storage
- optimize Stream Analytics
- optimize Azure Synapse Analytics
- optimize SQL Database
- manage the data lifecycle

**See below changes as of December 4, 2019**

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