

# Exam DP-201: Designing an Azure Data Solution – Skills Measured

## Design Azure data storage solutions (40-45%)

### Recommend an Azure data storage solution based on requirements

- choose the correct data storage solution to meet the technical and business requirements
- choose the partition distribution type

### Design non-relational cloud data stores

- design data distribution and partitions
- design for scale, including multi-region, latency, and throughput
- design a solution that uses Cosmos DB, Data Lake Storage Gen2, or Blob storage
- select the appropriate Cosmos DB API
- design a disaster recovery strategy
- design for high availability

### Design relational cloud data stores

- design data distribution and partitions
- design for scale, including multi-region, latency, and throughput
- design a solution that uses SQL Database and SQL Data Warehouse
- design a disaster recovery strategy
- design for high availability

## Design data processing solutions (25-30%)

### Design batch processing solutions

- design batch processing solutions by using Data Factory and Azure Databricks
- identify the optimal data ingestion method for a batch processing solution
- identify where processing should take place, such as at the source, at the destination, or in transit

### Design real-time processing solutions

- design for real-time processing by using Stream Analytics and Azure Databricks
- design and provision compute resources

## **Design for data security and compliance (25-30%)**

### **Design security for source data access**

- plan for secure endpoints (private/public)
- choose the appropriate authentication mechanism, such as access keys, shared access signatures (SAS), and Azure Active Directory (Azure AD)

### **Design security for data policies and standards**

- design data encryption for data at rest and in transit
- design for data auditing and data masking
- design for data privacy and data classification
- design a data retention policy
- plan an archiving strategy
- plan to purge data based on business requirements