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Lab Brief

Course: Azure Essentials

Data Movement | SQL DB GEO Replication, Blob Storage

(Moving Data from OLTP systems to cool storage for analytics)

Hands on Lab Scenario

Data movement from OLTP systems to blob storage for analytics is a common practice in enterprises. Because OLTP systems are not meant for Big Data type queries, the OLTP data tables are copied to another storage optimized for big data such as Hadoop.

Also we do not want to stress OLTP databases for such as data movement and would leverage the replicas where we copy the data from.

In this lab we will:

- Create SQL DB and replicate this to another region. This replica will be readable.
- We will create a storage account and configure access tier as cool so that the storage costs are minimized.
- We will then create a Data Factory Service to copy Sales data to the blob storage account.

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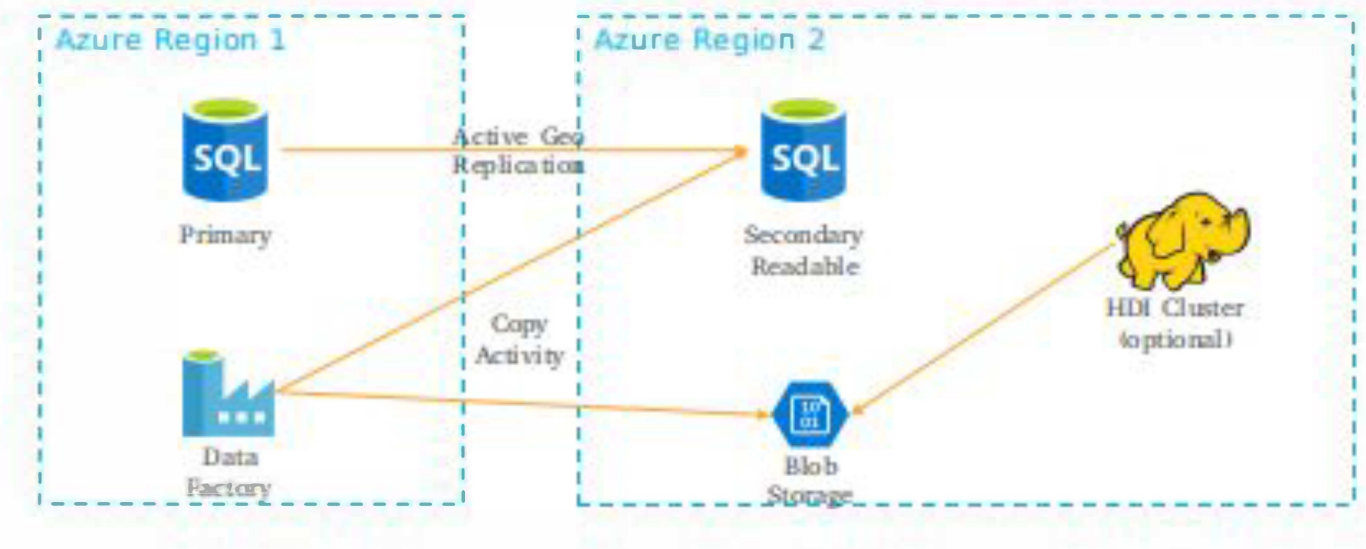
Learning Outcomes

1. Azure SQL DB and Geo Replication
2. Blob Storage Access Tiers
3. Data Factory activities and pipelines

Final Goal



3 Regions you can use:

South India

Central India

South East Asia

What is needed?

1. Azure Subscription
2. Access to three regions–South India, Central India, South East Asia
3. SQL DB
4. Azure Storage Account
5. Data Factory
6. Azure Portal

How to do it?

1. Create Azure SQL Database with AdventureWorks sample database
2. Configure Active Geo replication to another region
3. Create a blob storage account with cool as the access tier.
4. Create Azure Data Factory and configure pipeline with source as SQL DB readable replica and destination as Blob Storage.
5. Choose SalesOrderDetail table in the source of ADF pipeline.
6. Run the pipeline.
7. Verify the blob storage to see if the sales data is available.