



# Azure Infrastructure as Code Bootcamp

Azure Data Storage Services



# Tim Warner



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# Course Agenda

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- + Day 1
  - + Azure Storage
- + Day 2
  - + Azure Relational Databases
- + Day 3
  - + Azure Non-Relational Databases



# Day 1: Azure Storage



## Day 1 Learning Goals

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- + Azure Storage Accounts
- + Access Control
- + Data Protection
- + Lifecycle Management
- + Static Websites
- + File Service
- + File Sync Service
- + Storage Monitoring



## Course Materials

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[timw.info/inebootcamp](http://timw.info/inebootcamp)



# Relevant Microsoft Certification

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CERTIFICATION EXAM    **AZ-104**  
**Microsoft Azure Administrator**

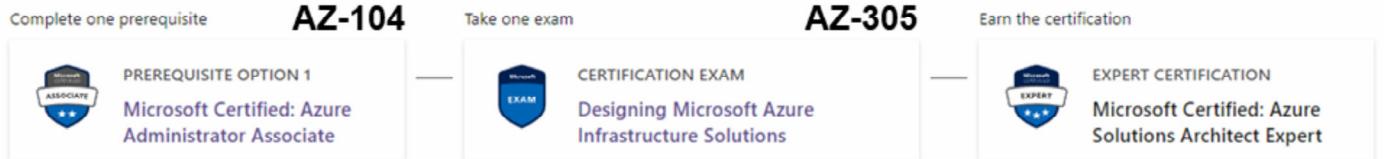


ASSOCIATE CERTIFICATION  
**Microsoft Certified: Azure Administrator Associate**



# Relevant Microsoft Certification

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# Relevant Microsoft Certification

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Take one exam



CERTIFICATION EXAM

**DP-203**

Data Engineering on Microsoft  
Azure

Earn the certification

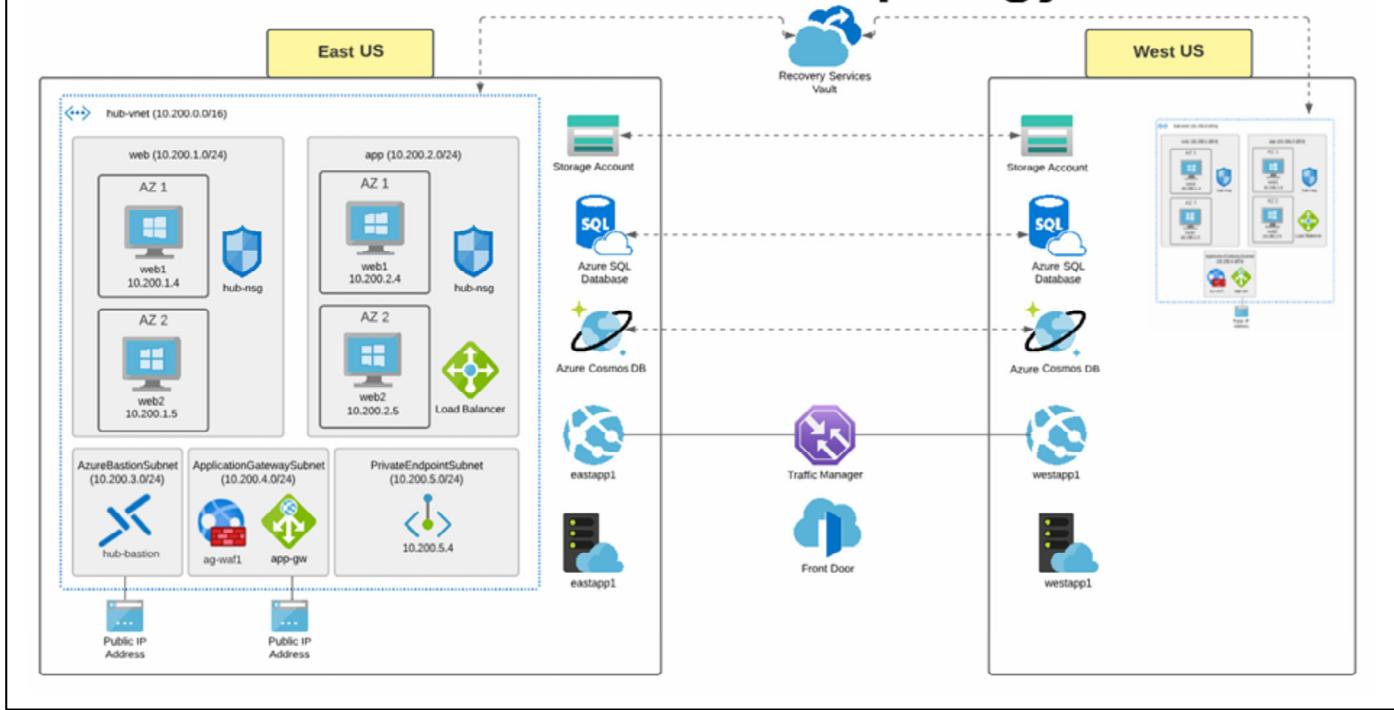


ASSOCIATE CERTIFICATION

Microsoft Certified: Azure  
Data Engineer Associate



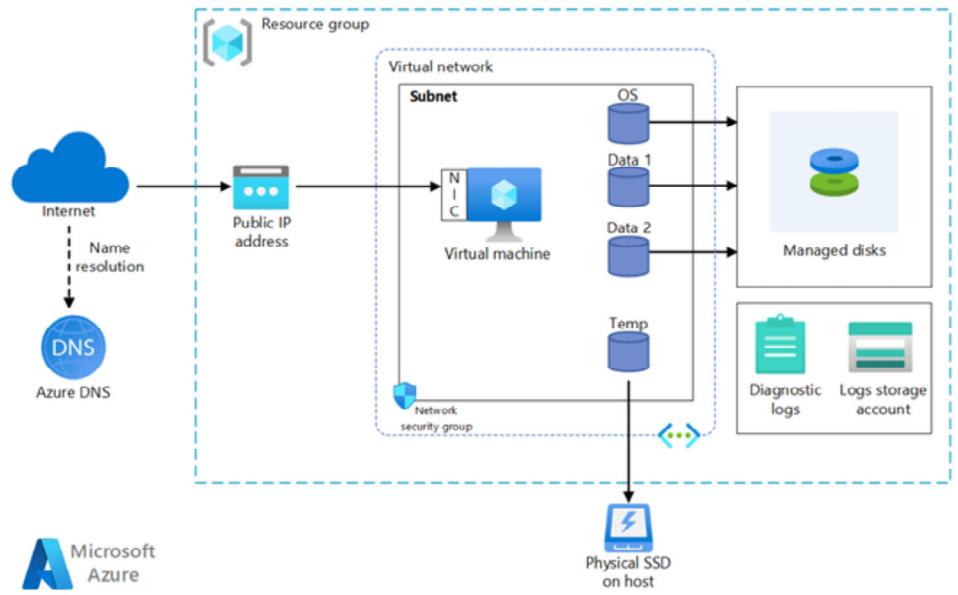
# Class Reference Topology



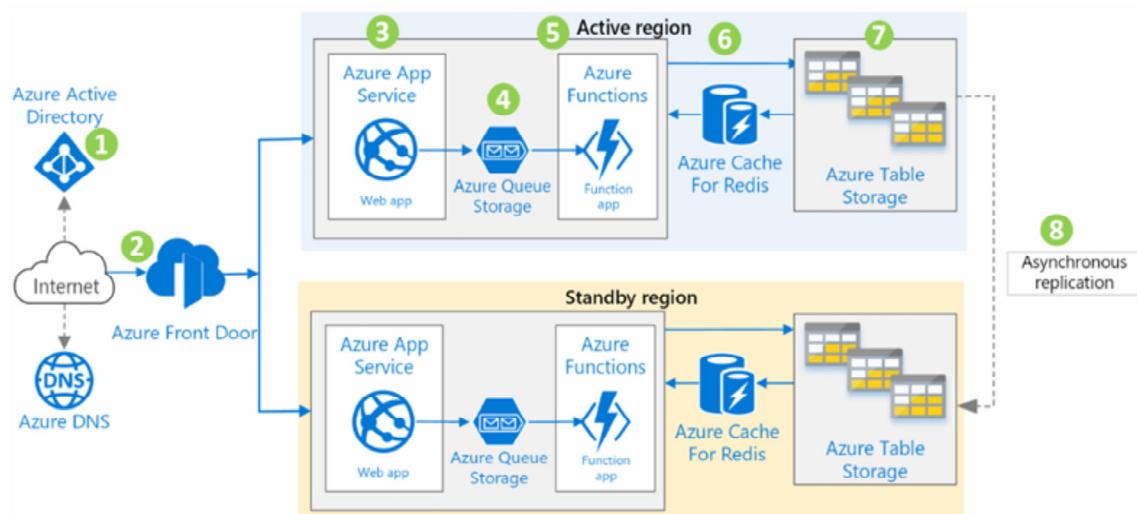
# Azure Storage



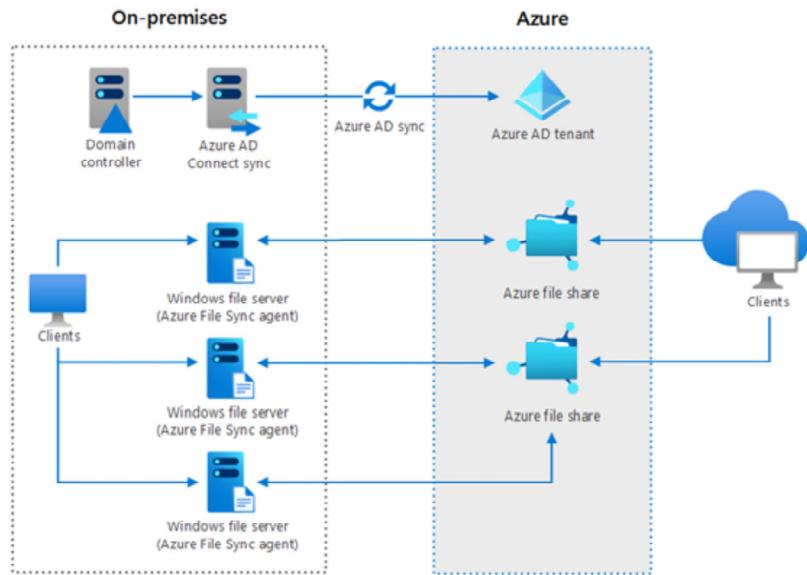
# Azure Storage and Virtual Machines



# Azure Storage Failover



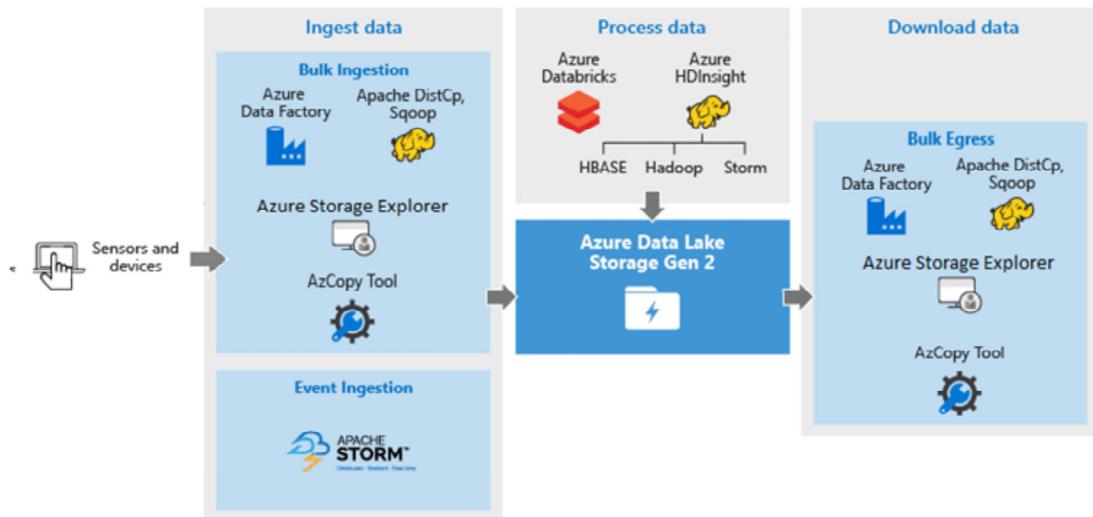
# Azure File Sync



[timw.info/fvk](http://timw.info/fvk)



# Data Lake Storage Gen 2

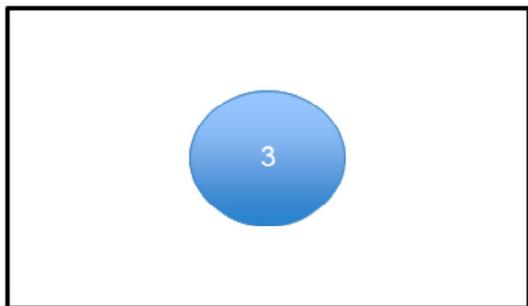


[timw.info/9sv](http://timw.info/9sv)

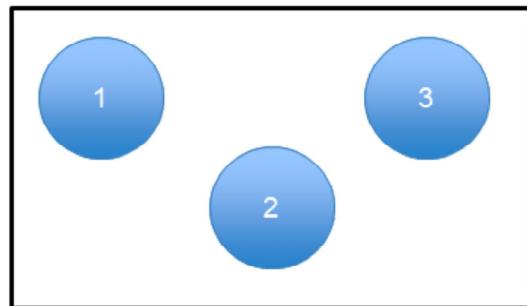


# Storage Account Replication

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LRS

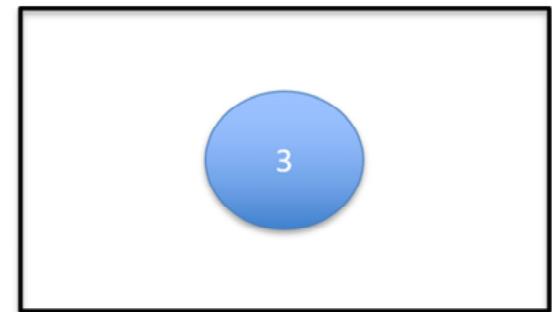
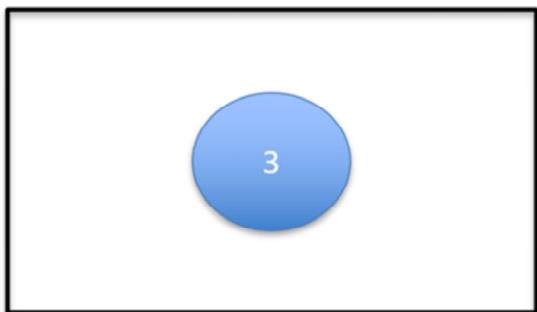


ZRS



# Storage Account Replication

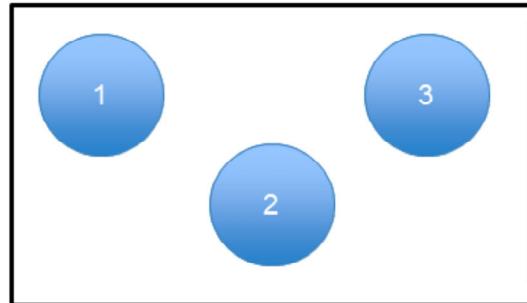
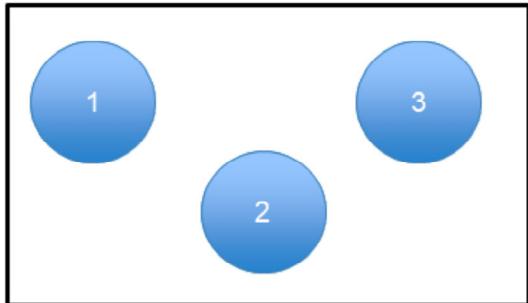
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GRS / RA-GRS

# Storage Account Replication

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GZRS / RA-GZRS



## Looking Ahead to Day 2

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- + Azure SQL Databases
- + Pricing and Feature Options
- + Availability Options
- + Backup and Restore
- + Access Control
- + Azure Database for MySQL
- + Azure Database for PostgreSQL





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## **Day 2: Azure Relational Databases**



## Day 2 Learning Goals

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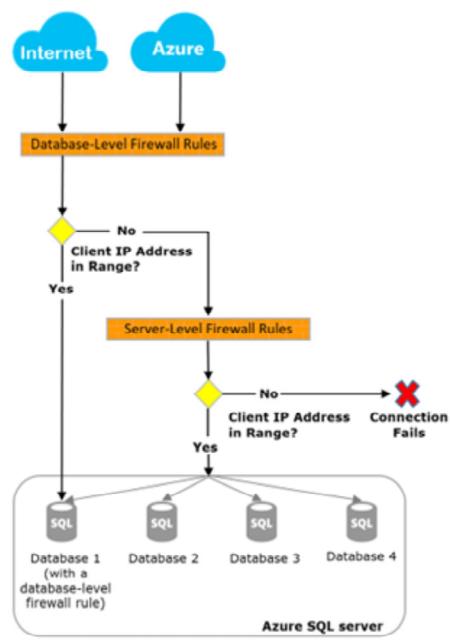
- + Azure SQL Databases
- + Pricing and Feature Options
- + Availability Options
- + Backup and Restore
- + Access Control
- + Azure Database for MySQL
- + Azure Database for PostgreSQL



# Azure SQL Database



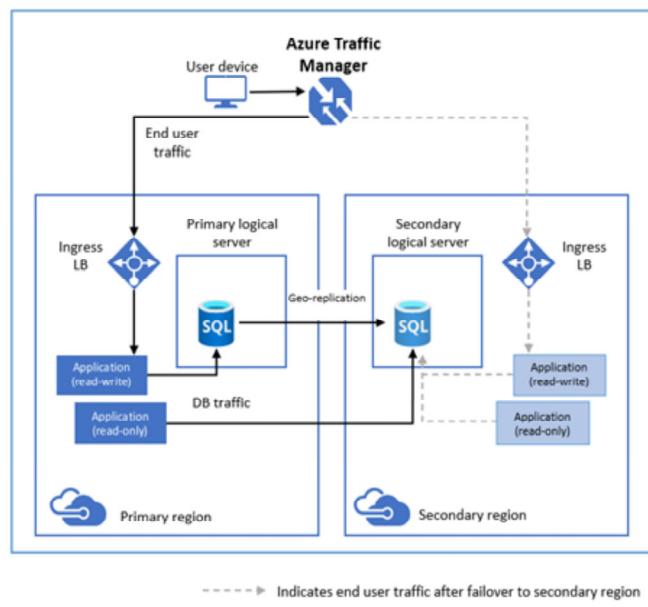
# Azure SQL Database Firewalls



Reference: [timw.info/366](http://timw.info/366)



# Azure SQL Database Geo-Replication



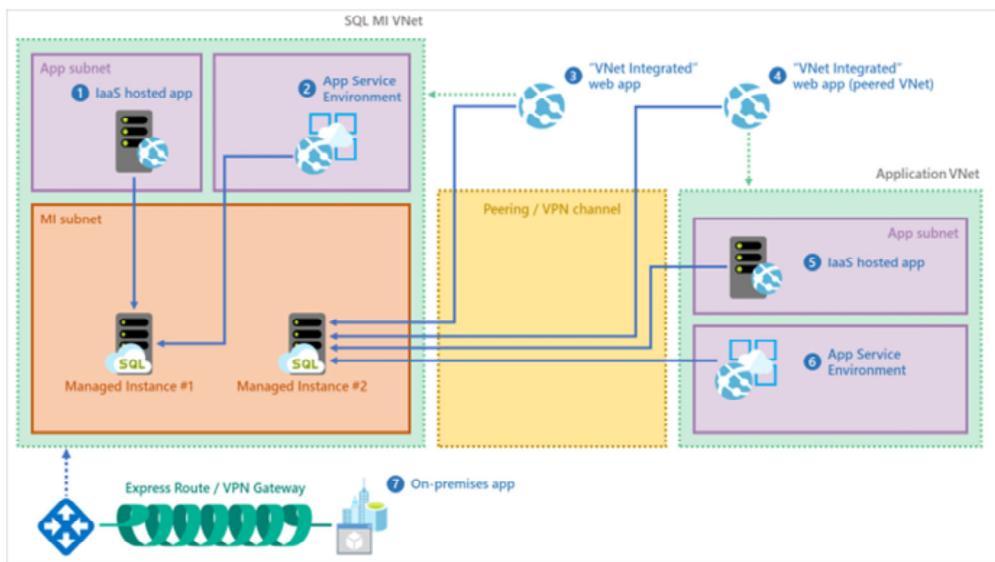
Reference: [timw.info/ky](http://timw.info/ky)



# Azure SQL Database Managed Instance



# Azure SQL Managed Instance



Reference: [timw.info/of4](http://timw.info/of4)

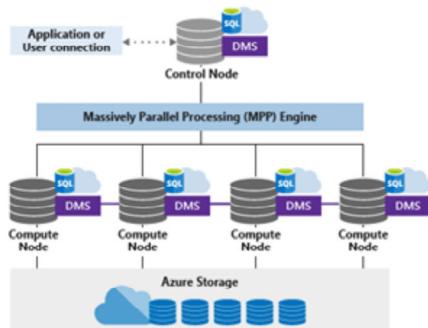


# Azure Synapse SQL Pool

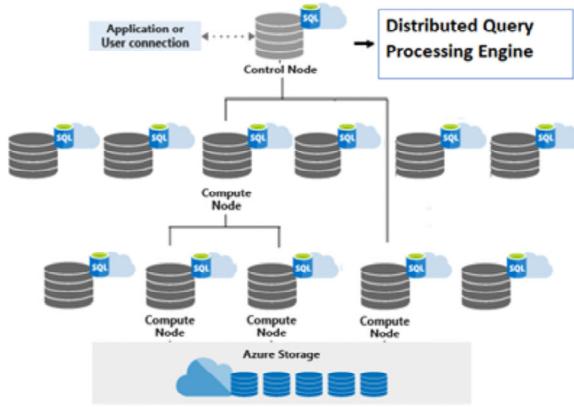


# Azure Synapse SQL Pool

Dedicated SQL pool



Serverless SQL pool



Reference: [timw.info/720](http://timw.info/720)



## Looking Ahead to Day 3

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- + Azure Cosmos DB
- + Cosmos DB High Availability
- + Azure Data Lake version 2
- + Azure Synapse
- + Azure Cache for Redis
- + Evaluation (10 mins)





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## Day 3: Non-Relational Databases



## Day 3 Learning Goals

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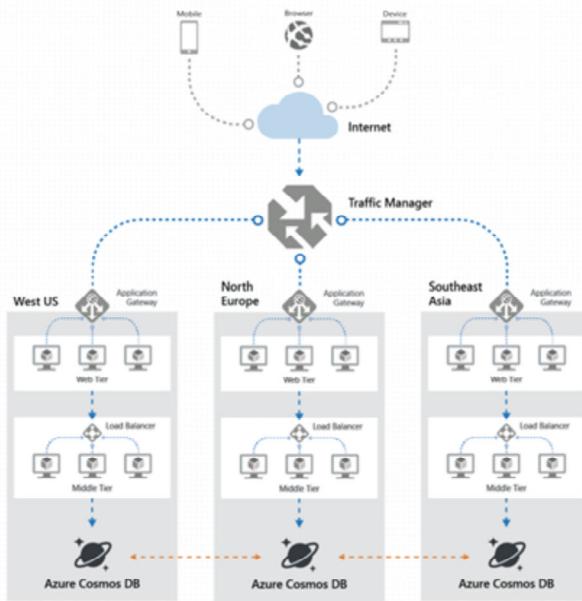
- + Azure Cosmos DB
- + Cosmos DB High Availability
- + Azure Data Lake Gen2
- + Azure Synapse
- + Evaluation (10 mins)



# Azure Cosmos DB



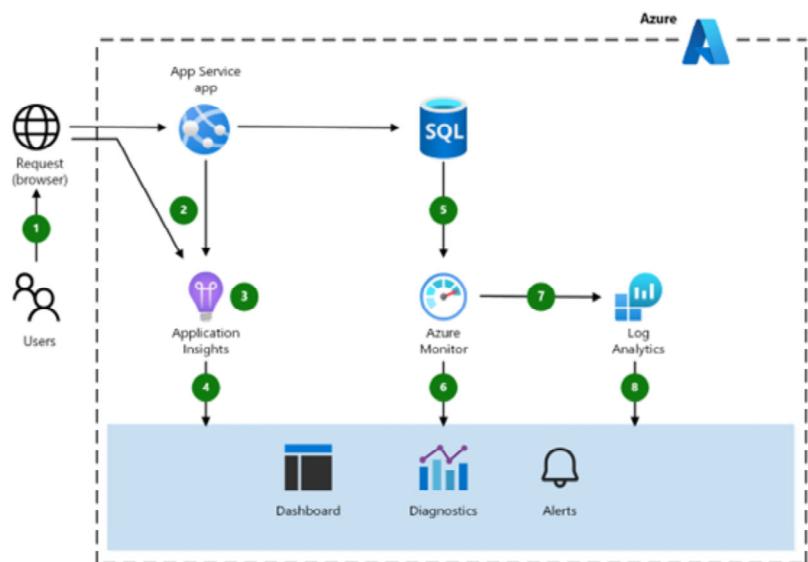
# Cosmos DB Multi-Master Replication



Reference: [timw.info/v5b](http://timw.info/v5b)



# Monitoring and Alerting



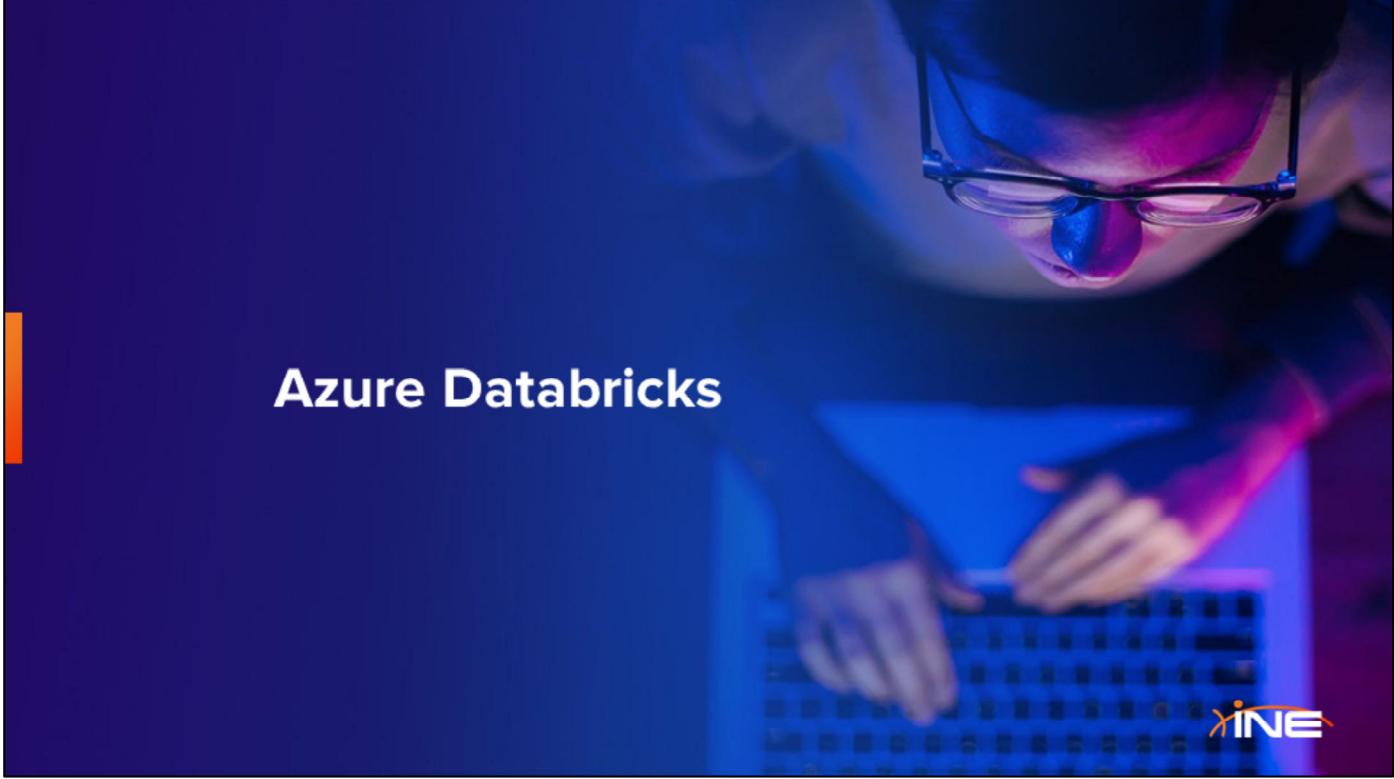
Reference: [timw.info/6ah](http://timw.info/6ah)

Microsoft Azure

XINE

# Azure Synapse Spark Pool

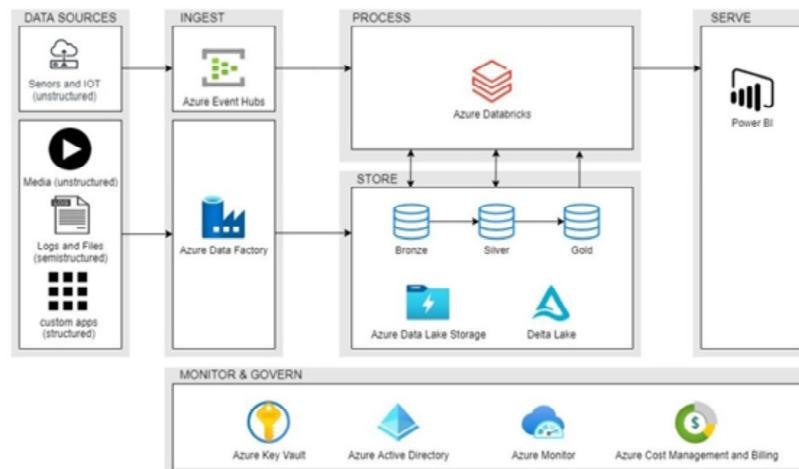




# Azure Databricks

XINE

# Azure Databricks



Reference: [timw.info/egr](http://timw.info/egr)



## Course Evaluation

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[timw.info/ineeval](http://timw.info/ineeval)





# Thanks so much!



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