



Azure Infrastructure as Code Bootcamp

Azure Data Storage Services



Tim Warner



+ timothywarner316@gmail.com



+ @TechTrainerTim



+ timw.info/linkedin

Course Agenda

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



Day 1: Azure Storage



Day 1 Learning Goals

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



Course Materials

timw.info/inebootcamp



Relevant Microsoft Certification



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



ASSOCIATE CERTIFICATION
Microsoft Certified: Azure
Administrator Associate



Relevant Microsoft Certification



Relevant Microsoft Certification

Take one exam



CERTIFICATION EXAM **DP-203**

Data Engineering on Microsoft Azure

Earn the certification

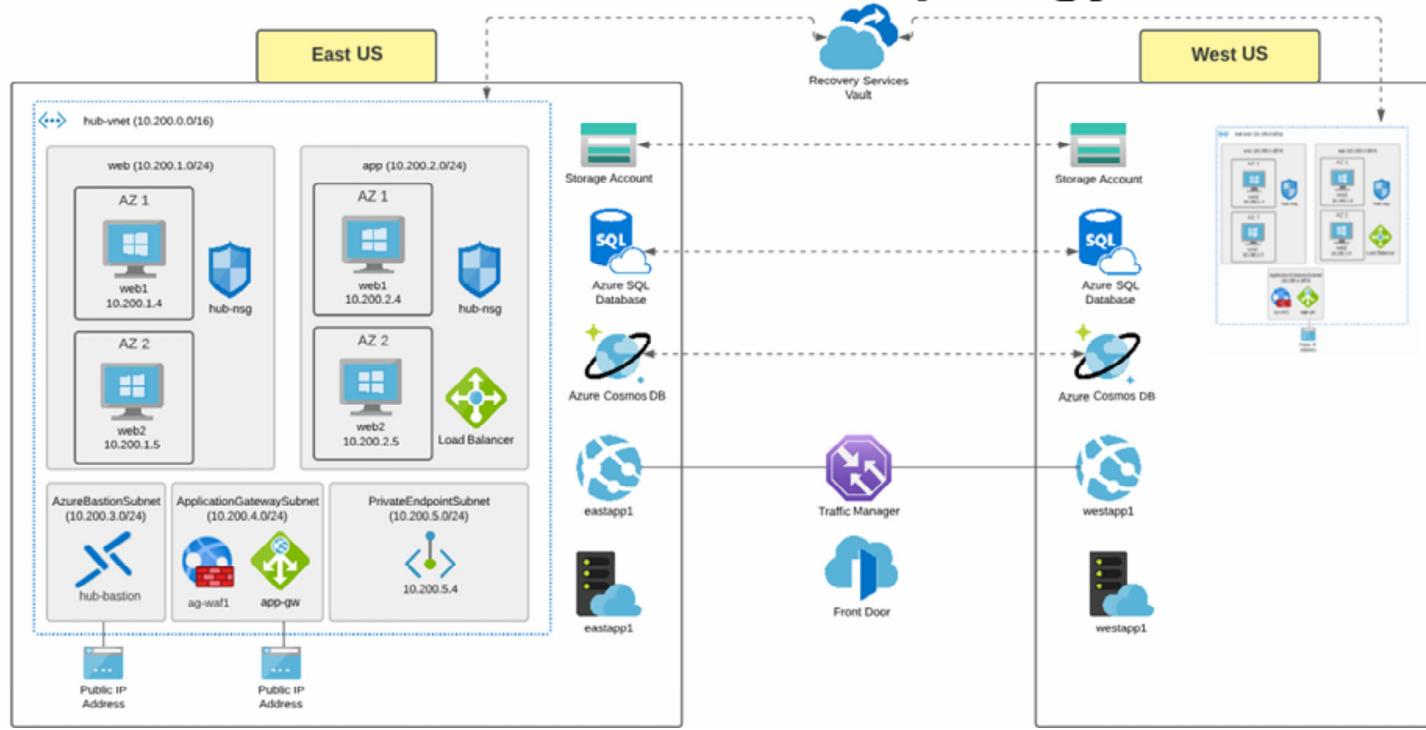


ASSOCIATE CERTIFICATION

Microsoft Certified: Azure Data Engineer Associate



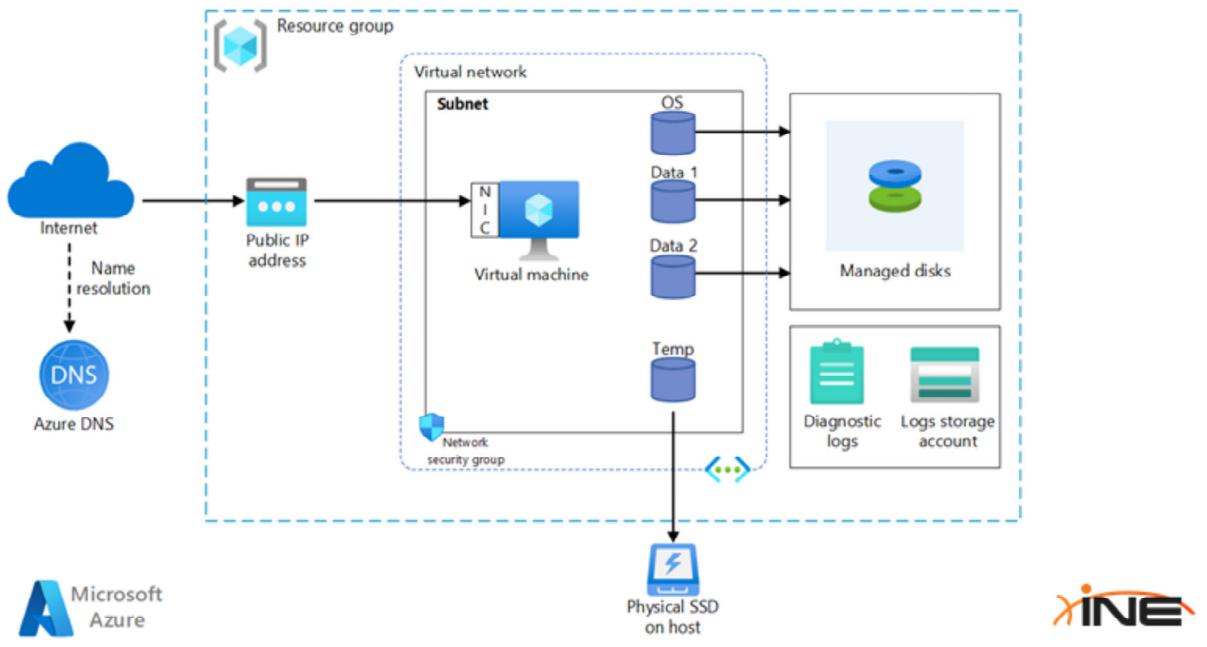
Class Reference Topology



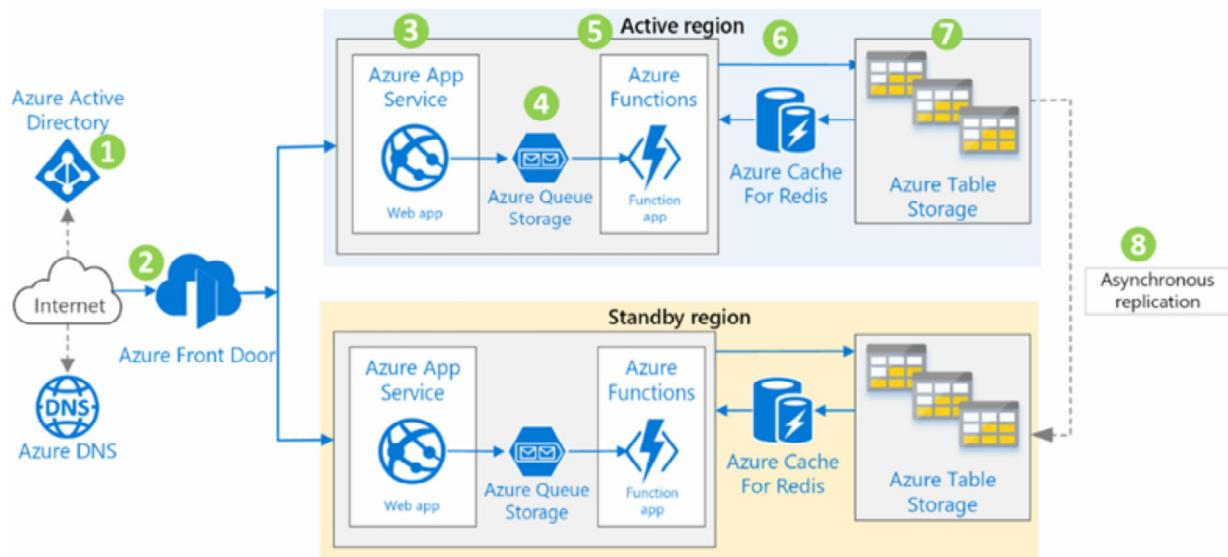
Azure Storage



Azure Storage and Virtual Machines



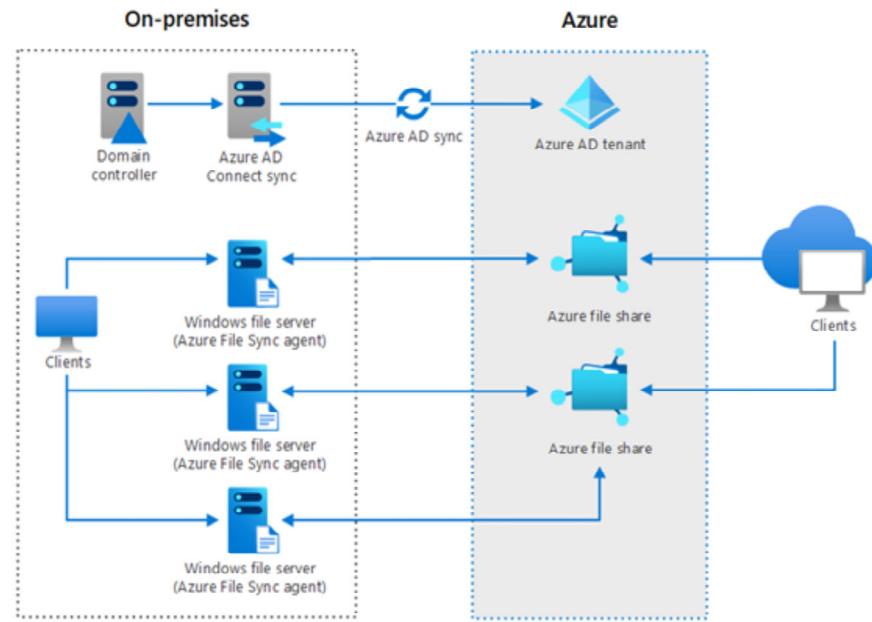
Azure Storage Failover



timw.info/hwp



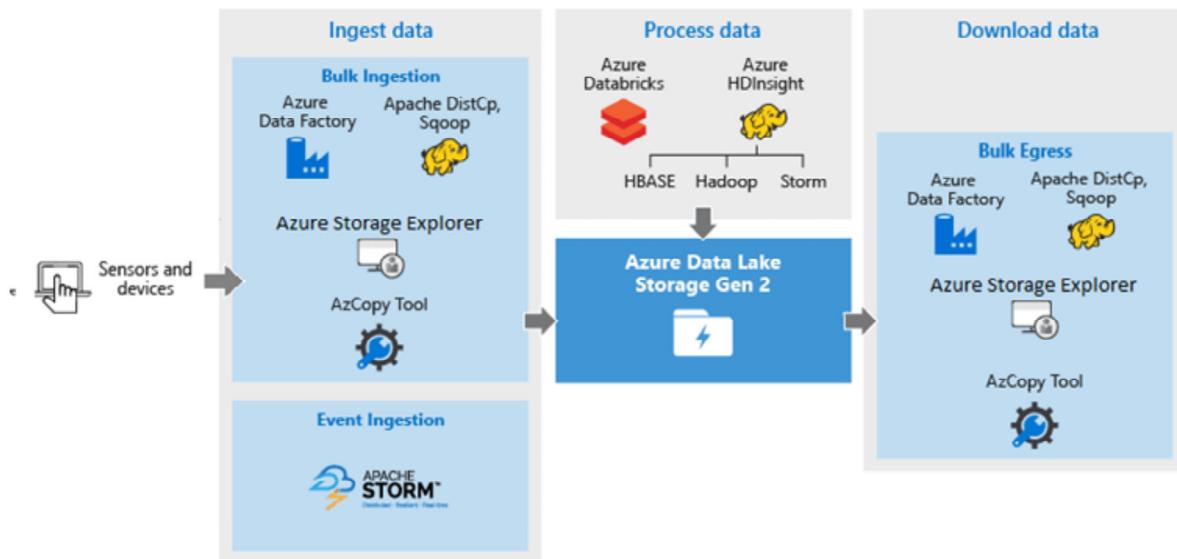
Azure File Sync



timw.info/fvk



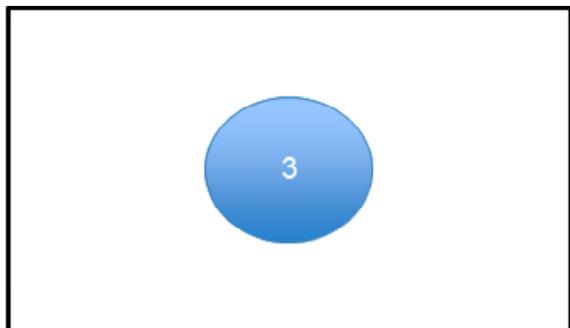
Data Lake Storage Gen 2



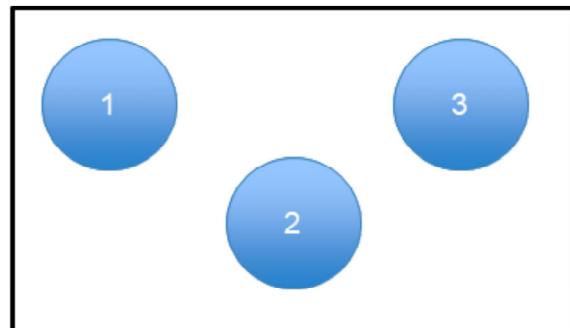
timw.info/9sv



Storage Account Replication



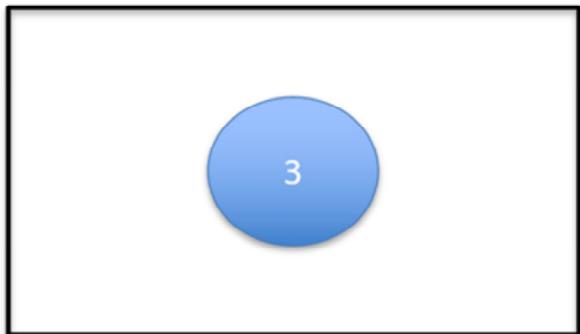
LRS



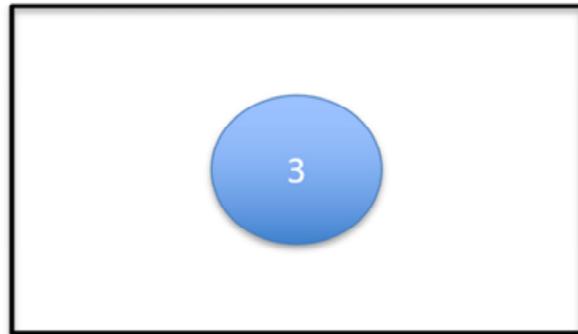
ZRS



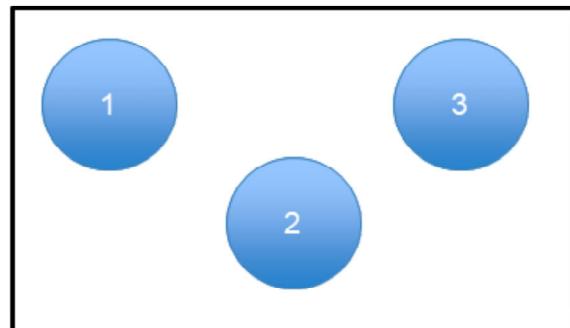
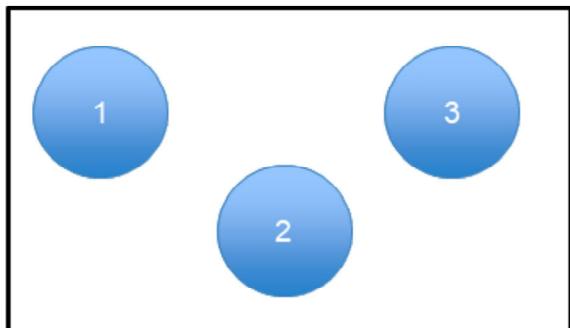
Storage Account Replication



GRS / RA-GRS



Storage Account Replication



GZRS / RA-GZRS



Looking Ahead to Day 2

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





Azure Infrastructure as Code Bootcamp

Azure Data Storage Services



Tim Warner



+ timothywarner316@gmail.com



+ @TechTrainerTim



+ timw.info/linkedin

Day 2: Azure Relational Databases



Day 2 Learning Goals

- + 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

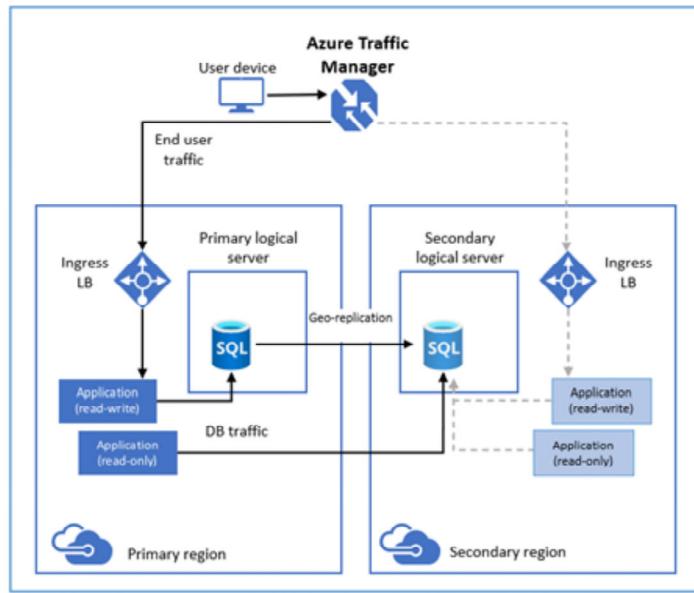


Azure SQL Database Firewalls

Reference: timw.info/iky



Azure SQL Database Geo-Replication



----- ➤ Indicates end user traffic after failover to secondary region



Reference: timw.info/iky

Azure SQL Database Managed Instance



Azure SQL Managed Instance

Reference: timw.info/iky



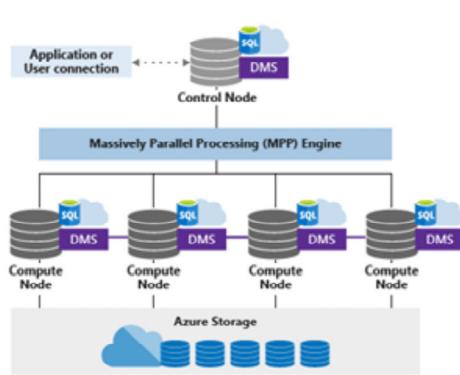


Azure Synapse SQL Pool

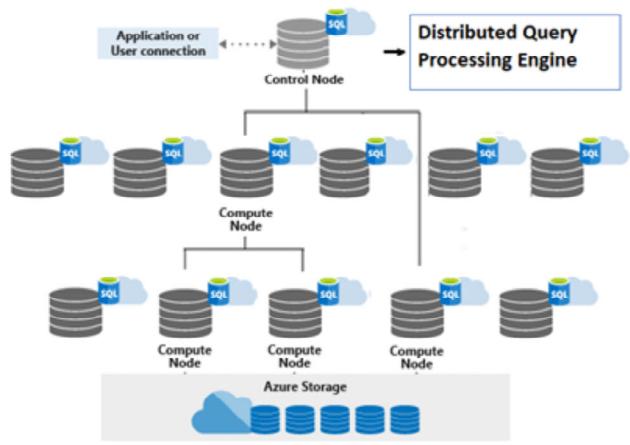
INE

Azure Synapse SQL Pool

Dedicated SQL pool



Serverless SQL pool



Reference: timw.info/72o





Other Hosted Database Products

XINE

Looking Ahead to Day 3

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





Azure Infrastructure as Code Bootcamp

Azure Data Storage Services



Tim Warner



+ timothywarner316@gmail.com



+ @TechTrainerTim



+ timw.info/linkedin

Day 3: Non-Relational Databases



Day 3 Learning Goals

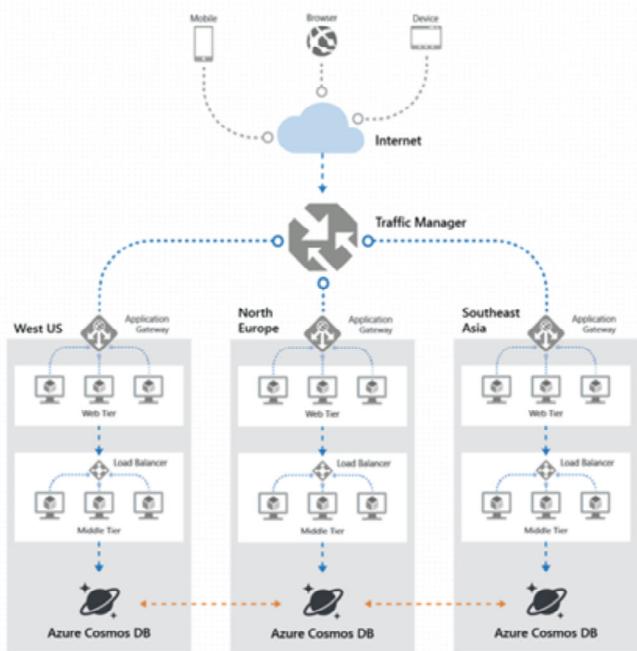
- + Azure Cosmos DB
- + Cosmos DB High Availability
- + Azure Data Lake version 2
- + Azure Synapse
- + Azure Cache for Redis
- + Evaluation (10 mins)



Azure Cosmos DB



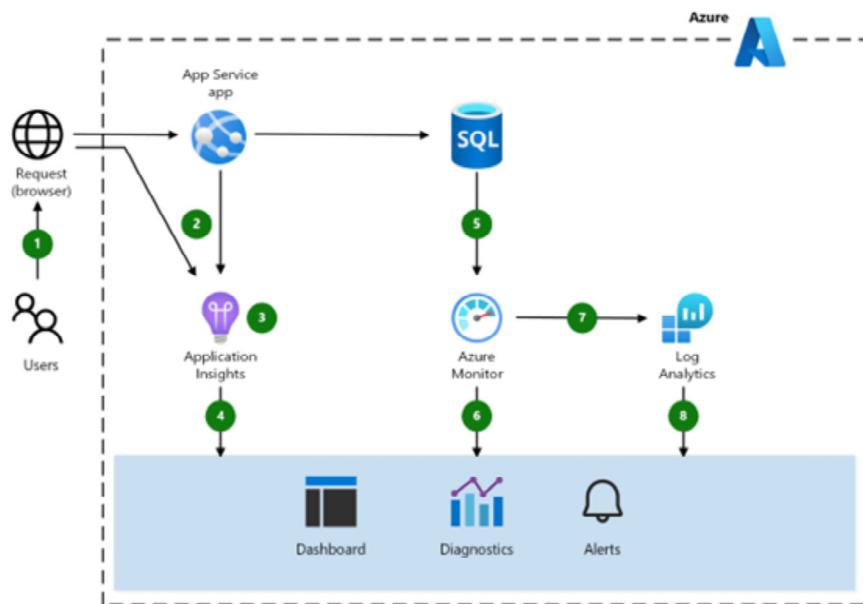
Cosmos DB Multi-Master Replication



Reference: timw.info/v5b



Monitoring and Alerting



Reference: timw.info/6ah



Azure Synapse Spark Pool



Azure Databricks

INE

Azure Cache for Redis



Course Evaluation

timw.info/ineeval





Thanks so much!



+ timothywarner316@gmail.com



+ @TechTrainerTim



+ timw.info/linkedin