DATABASE

Types of data
Database offerings

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DIFFERENT TYPES OF DATA STRUCTURE

- Relational
- Non-relational
  - Document, e.g. self-describing like JSON, XML, YAML
  - Key-value
  - Columnar
  - Graph

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DATABASES IN AZURE

- You can just install anything in a VM!
- You are then responsible for everything
  - DB install, patch, upgrade
  - Backup
  - HA/DR
  - Tuning

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SQL SERVER

- A large number of different offerings
  - SQL Virtual Machines
  - Azure SQL Managed Instance
  - Azure SQL Database
  - Azure SQL Hyperscale
- Scale capabilities
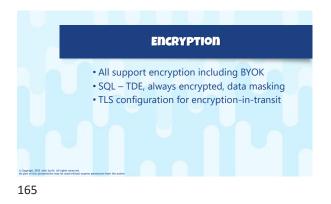- Geo-replication options
- Service differences

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AZURE DATABASE FOR POSTGRESQL/MYSQL/MARIADB

- Built on community editions of open-source relational database
- Enhanced with Azure functionality
- Various offerings

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COSMOS DB

- Built for global distribution
- Multi-model support
- Built around a partition key to distribute data and processing
- Configurable consistency

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ENCRYPTION

- All support encryption including BYOK
- SQL – TDE, always encrypted, data masking
- TLS configuration for encryption-in-transit

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DATA FLOW

- Organizations commonly think about ETL/ELT and other data flows
- Think about source to sink and everything in-between
- Data lakes
- Azure Data Factory as the control flow
- Various services used for data manipulation, analysis
- Azure Synapse Analytics and Azure Analysis Services

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QUESTIONS?

ASK IN THE COMMENTS

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