

Connecting Data to the Application



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Introduction



Look at the data in the application

Azure SQL

Visual Studio database project

Visual Studio Team Services

Azure Redis Cache

Azure SQL Business Continuity



A Look at the Data in the Application



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ASP.NET Core



HTTPS



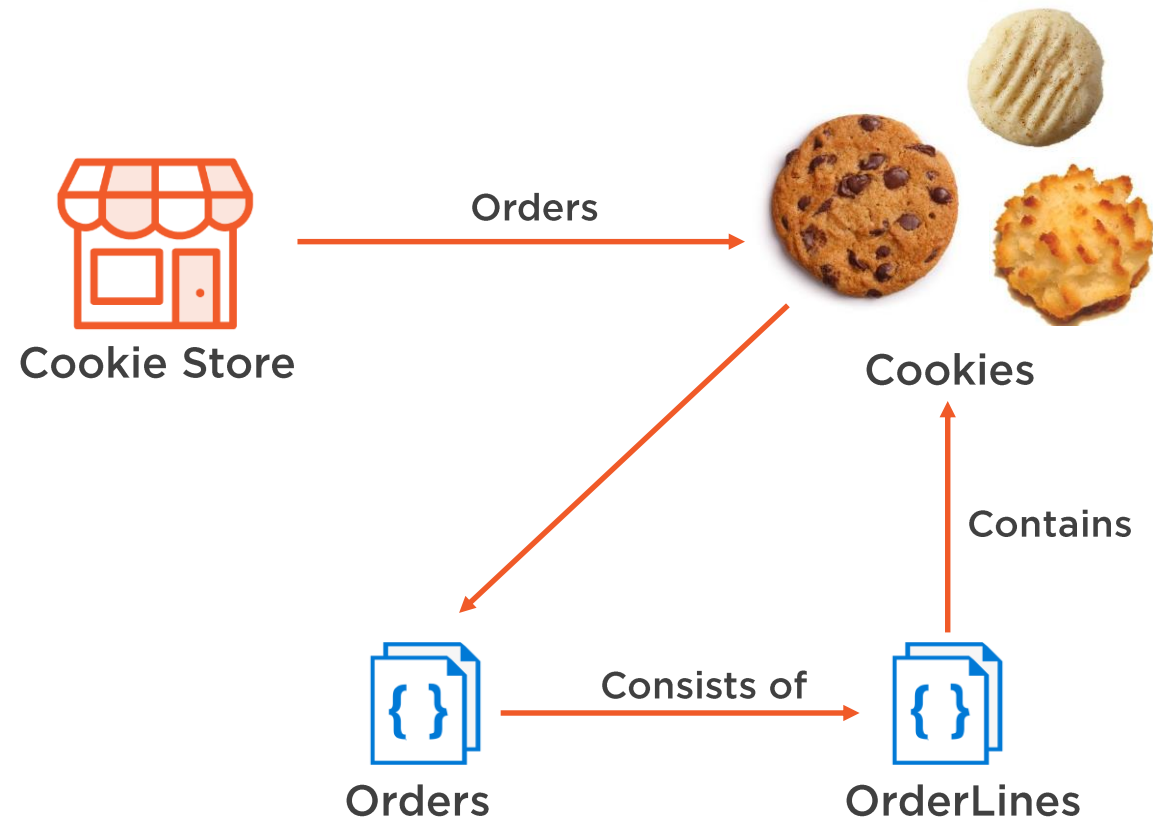
Azure Web App



CDN



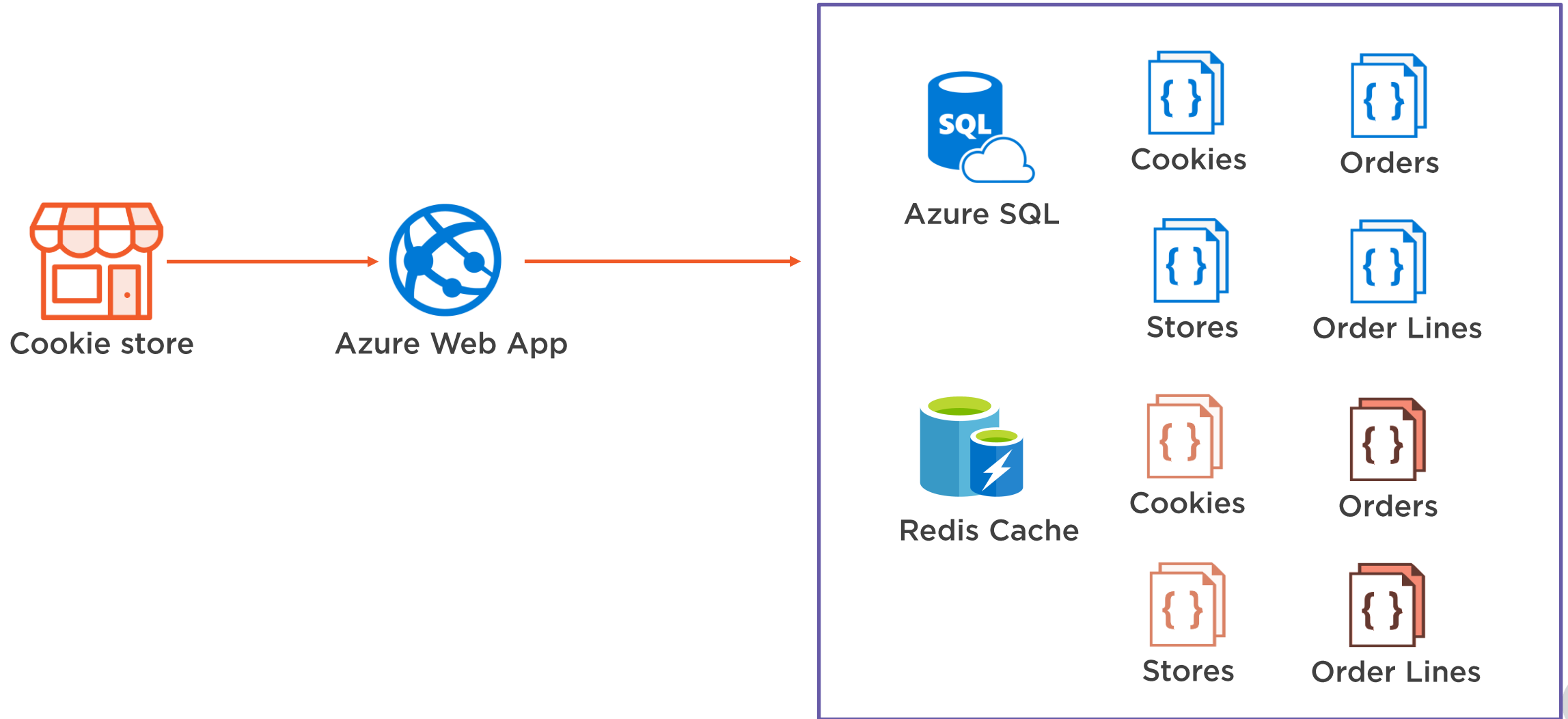
Internationalcookies.eu



Data in the Application



Data in the Application



Data in the Application



Data in the Application





Azure SQL

About Azure SQL Server

Database-as-a-Service

(mostly) relational datastore

Highly available (99.99%)

Lot's of features:

- Auditing
- Geo-replication
- Transparent Data Encryption (TDE)
- Dynamic Data Masking

Demo



Create Azure SQL Databases

Entity Framework

Visual Studio database project

Visual Studio Team Services



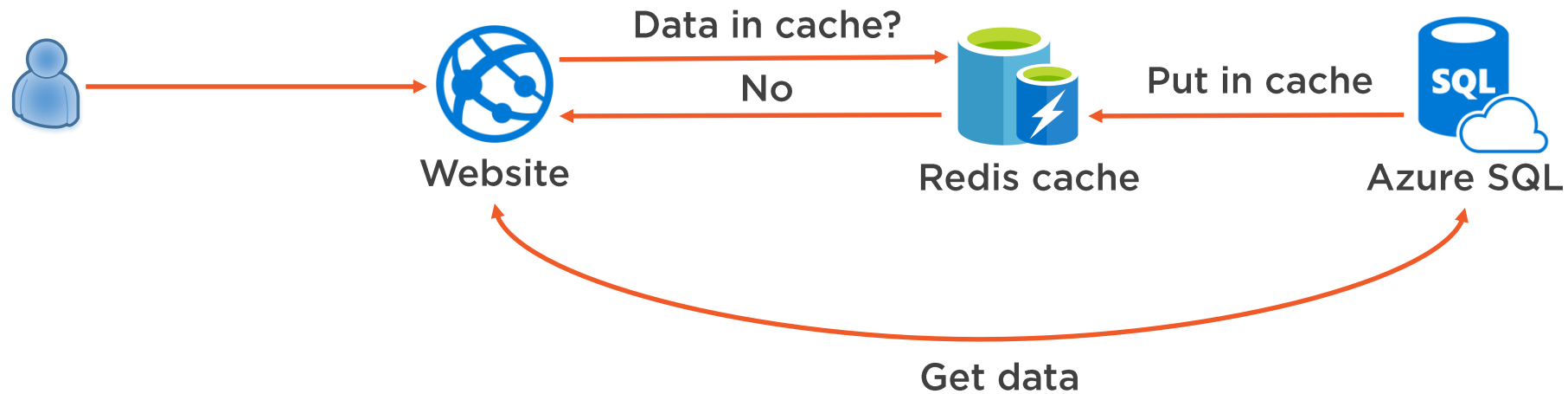
Making the Application More Performant with Azure Redis Cache



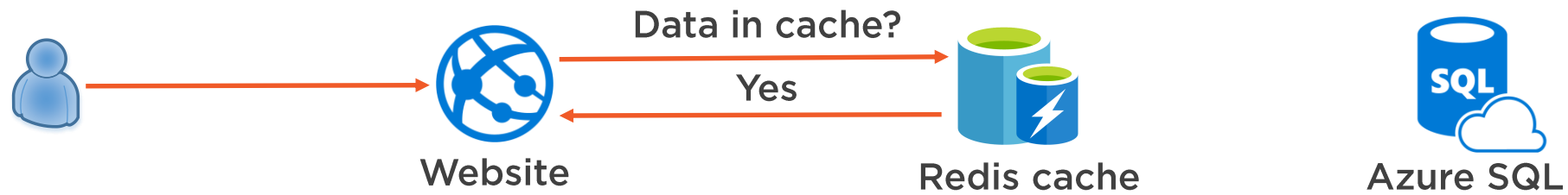
A Word About Caching

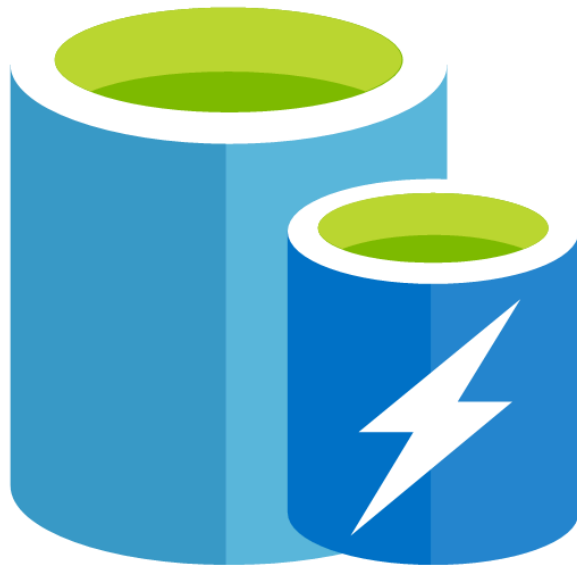


A Word About Caching



A Word About Caching





Redis Cache

About Azure Redis Cache

Cache-as-a-Service

In-memory data structure store

Recommended cache to use with Azure

Based on the open source Redis platform

Highly available (99.9%)

Key / value structure

Publish / Subscribe

Demo



Create Azure Redis Cache

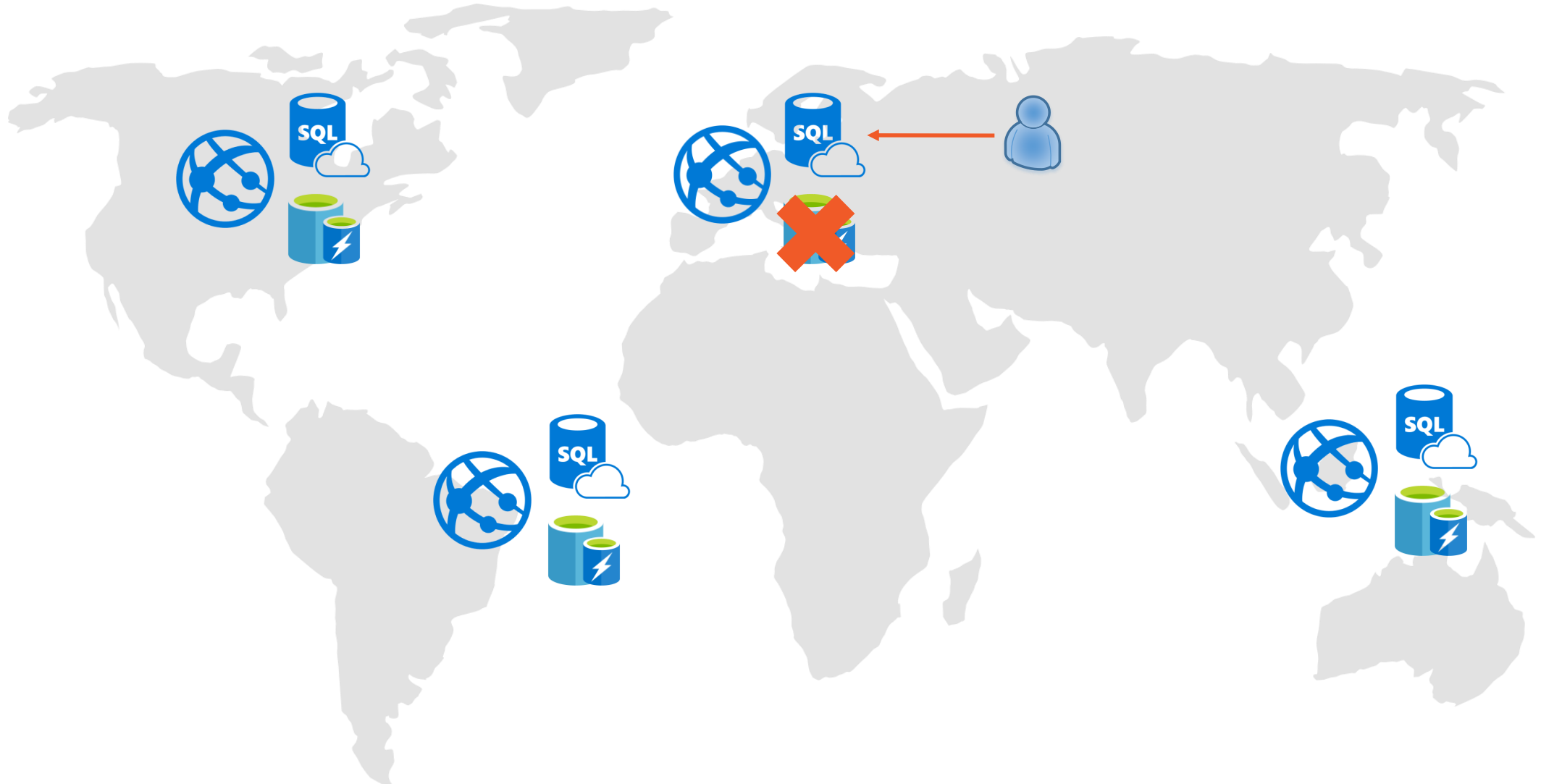
Connect the application to it



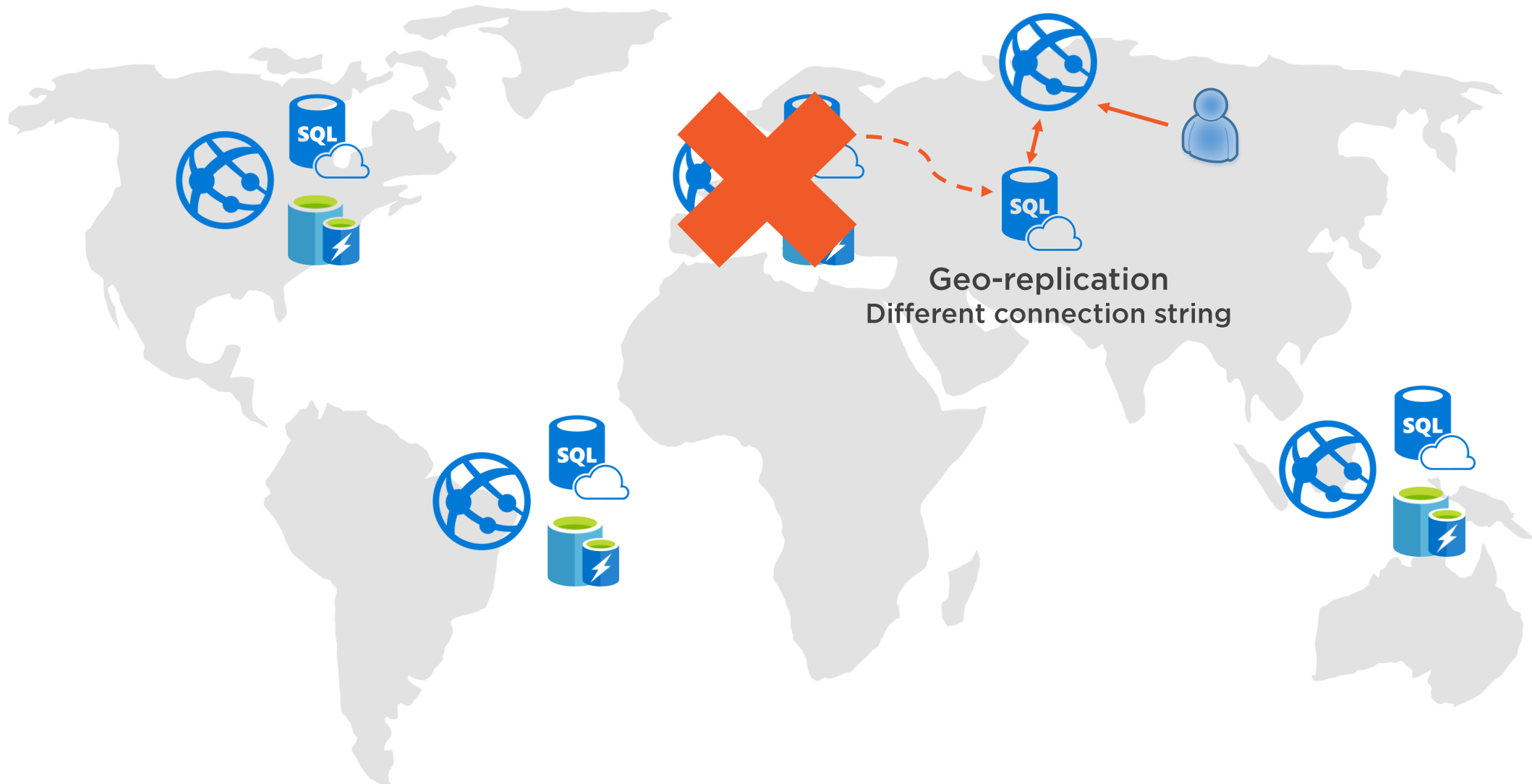
Azure SQL Business Continuity



What if Disaster Strikes? – Local Cache



What if Disaster Strikes? – Whole Region



About Azure SQL Continuity



Point in Time Restore from backup

- 7 – 35 days
- Backed up in 3 regions
- Backups < 1 hour
- Restore < 12 hours

Geo-Restore from geo-replicated backups

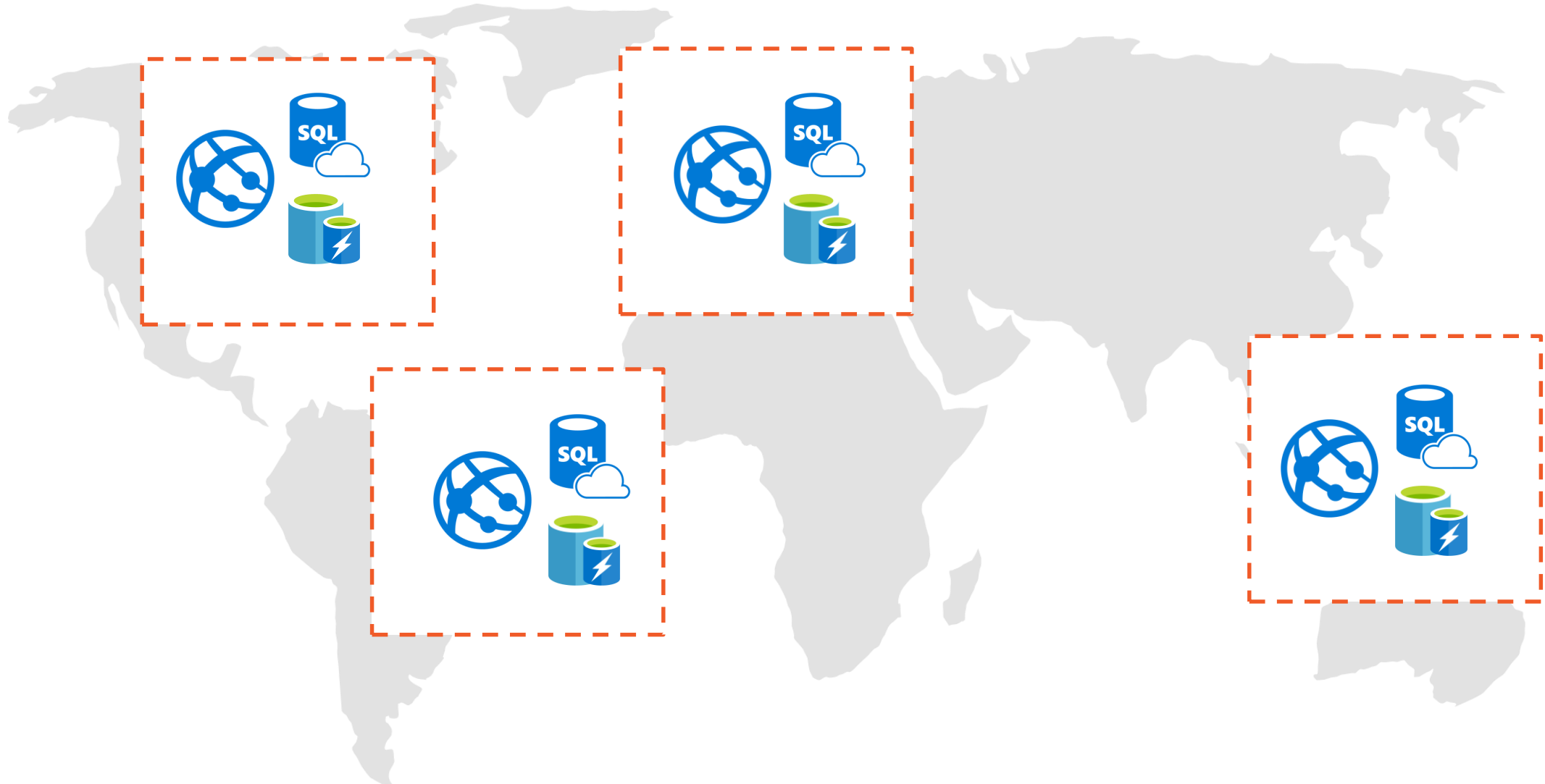
- Backups < 1 hour
- Restore < 12 hours

Active Geo-Replication

- Sync < 5 seconds
- Up < 30 seconds



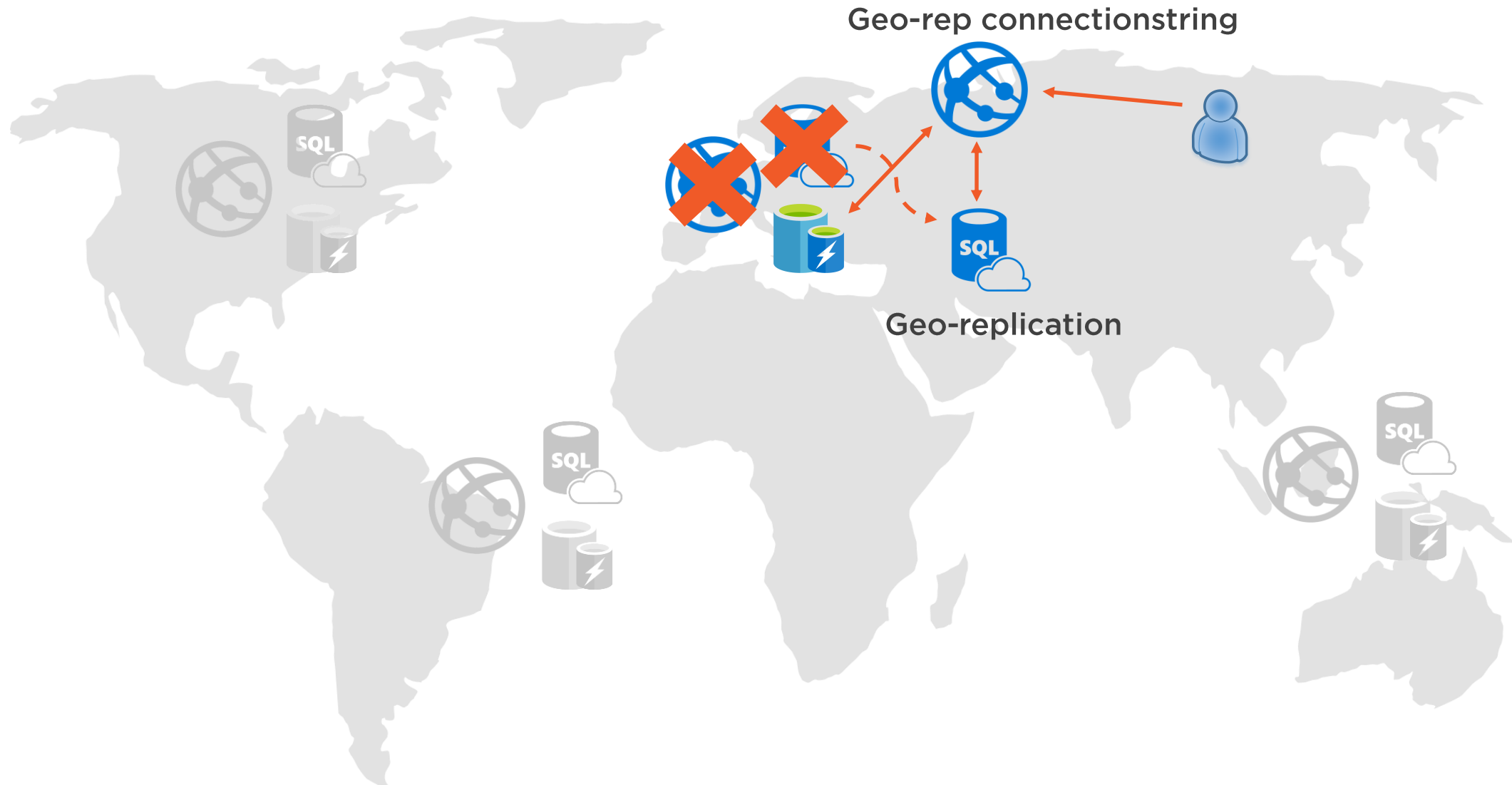
Updating the Application



Updating the Application



Updating the Application



Demo



Backup and restore

Azure SQL Geo-Replication



Summary



Azure SQL

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Visual Studio Team Services

Azure Redis Cache

Azure SQL Business Continuity

