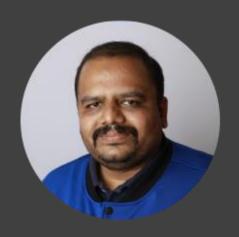






### Building scalable and efficient data driven apps using Azure Cosmos DB



Vikram Pendse

Microsoft MVP – Azure since year 2008

Cloud Solutions Architect







Mahesh Sabnis

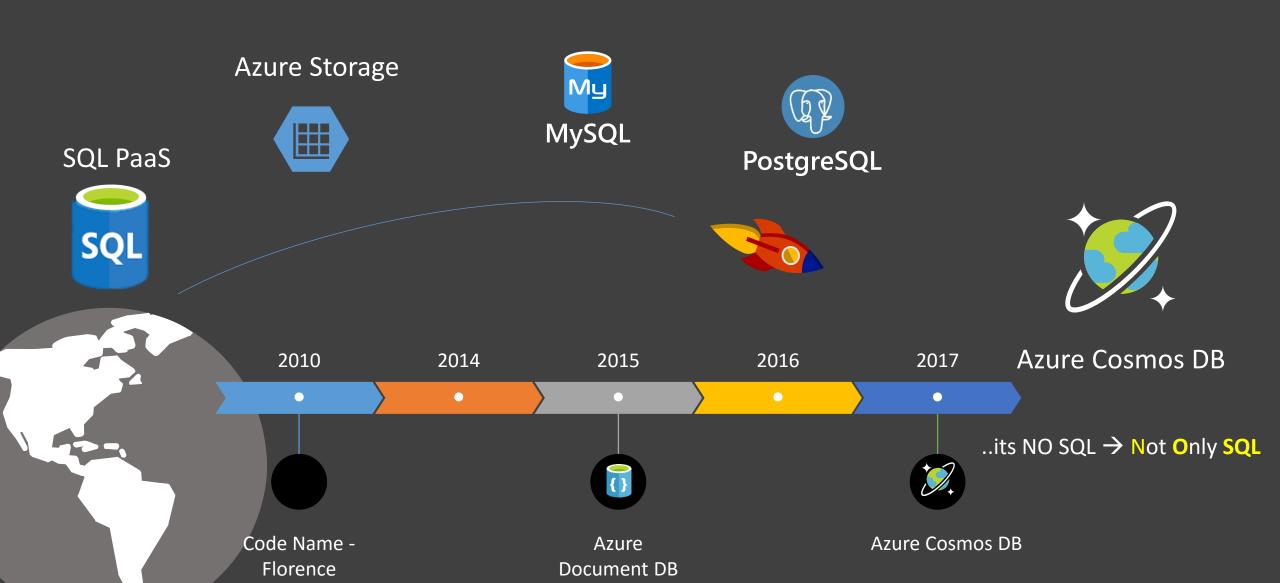
Microsoft MVP – Visual Studio

MCT, Trainer & Consultant at

Mahesh IT Services



# Agenda





A globally distributed, massively scalable, multi-model database service



### **Azure Cosmos DB Facts**

- Linearizability (once operation is complete, it will be visible to all)
- 99.99% availability and low latency.



- Reads will never see out of order writes (no gaps).
- Potential for out of order reads. Lowest cost for reads of all consistency levels.

#### Request Units (RU)

Request Units (RU) is a rate-based currency. Abstracts physical resources for performing requests

1 RU = 1 Read of 1 KB Document

Reads under < 10 ms indexed writes under 10 ms at the 99th percentile, within the same Azure region.

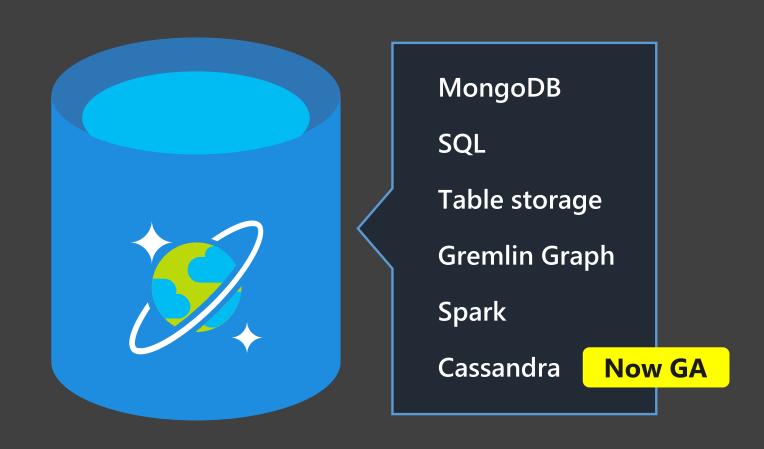


#### Demo



- 1. Create Cosmos DB from Azure Portal
- 2. Create Cosmos DB from .NET Console Application

#### Azure Cosmos DB APIs

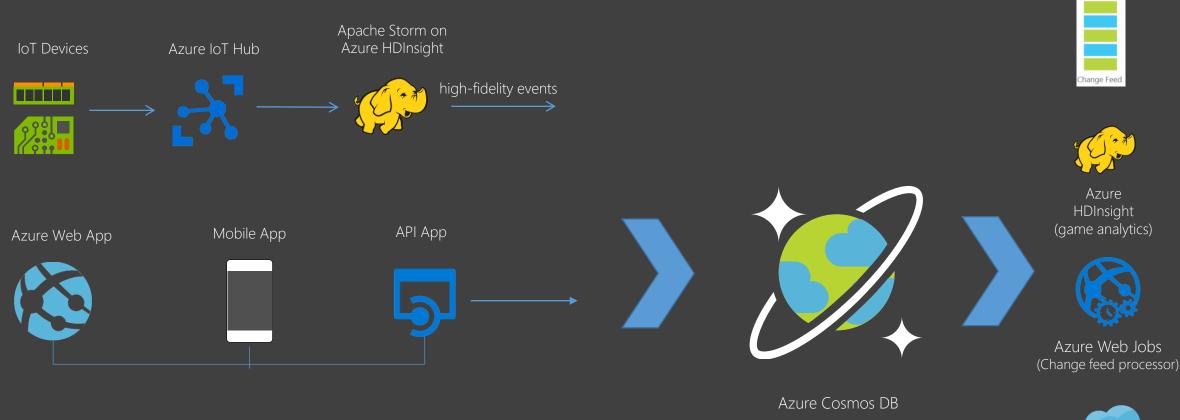


#### Demo



- 1. Query Azure Cosmos DB
- 2. Migrate SQL PaaS to Azure Cosmos DB using Tool
- 3. Introduction to Table API

### Different scenarios for using Azure Cosmos DB









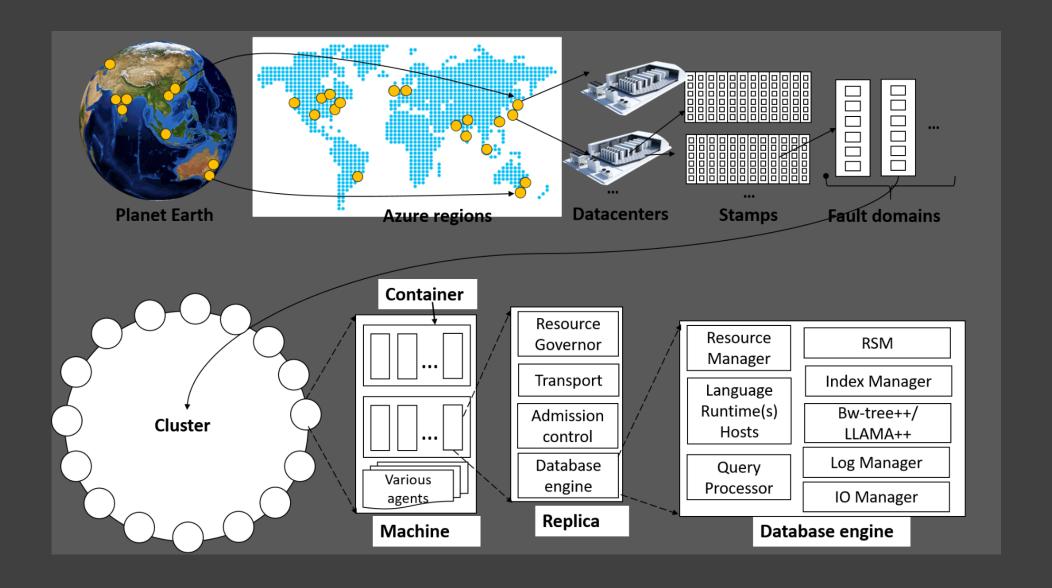
Azure Search (full-text index)

### Demo



Using Azure Cosmos DB using ASP.NET Core + Angular

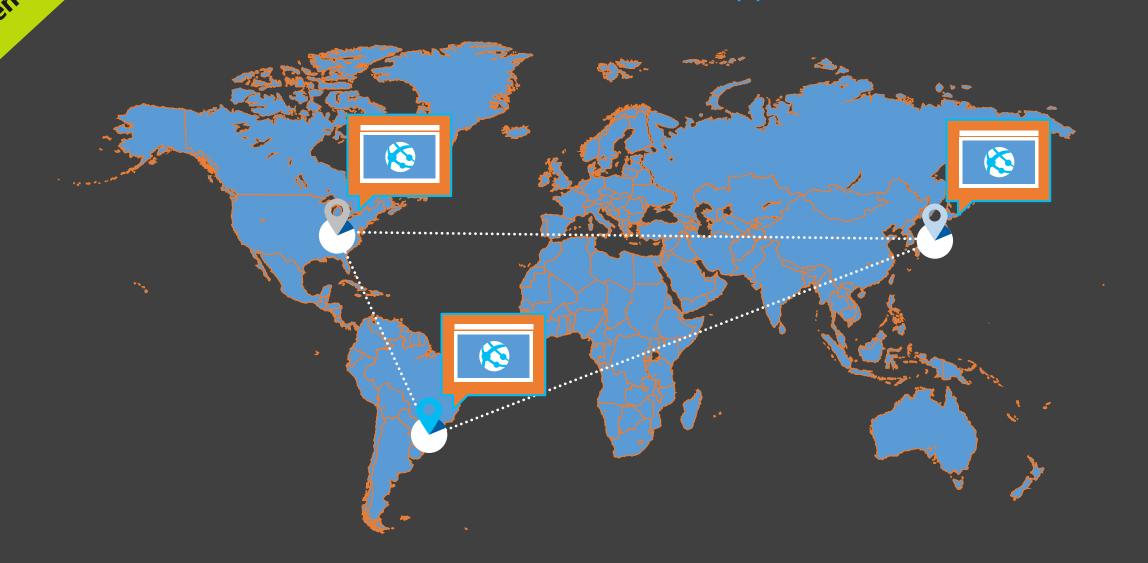
### Azure Cosmos DB – Behind the scene



Generally Available

### Azure Cosmos DB

New multi-master write support



#### Get connected...







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https://blog.e-zest.com/author/vikram-pendse



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@maheshdotnet



https://www.dotnetcurry.com/author/mahesh-sabnis



https://www.linkedin.com/in/mahesh-sabnis-3642999/

#### Additional Resources

- https://blog.e-zest.com/ e-Zest
- https://github.com/VikramPendse
- https://www.dotnetcurry.com/
- https://docs.microsoft.com/en-us/azure/

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