



Azure Cosmos DB Consulting Service

ABOUT THE COMPANY



1. Established in 2002.
2. Extensive range of technologies & services.
3. International offices in USA, France, Australia, Dubai with head office and company registration in the UK.
4. Large In-house development Team in India.
5. Ability to provide extensive onshore services and Development Teams
6. We have provided solutions to **10,000+ clients** all around the world working on more than **18,000 projects**.



700+
Employees



10,000+
Clients



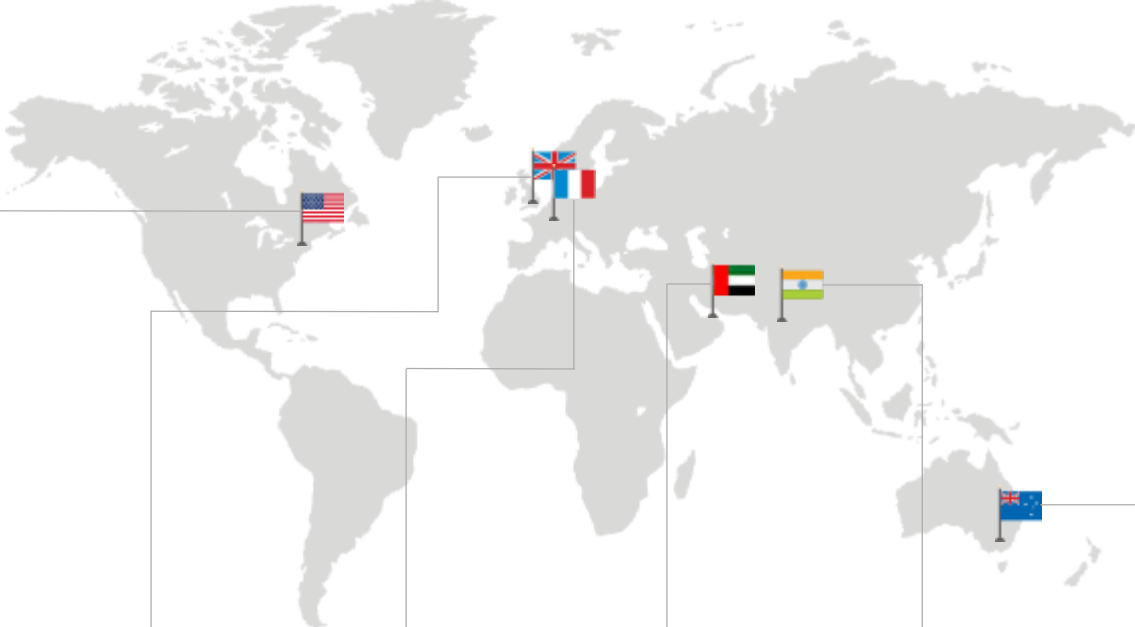
Global
Offices



18,000
Projects



ABOUT THE COMPANY



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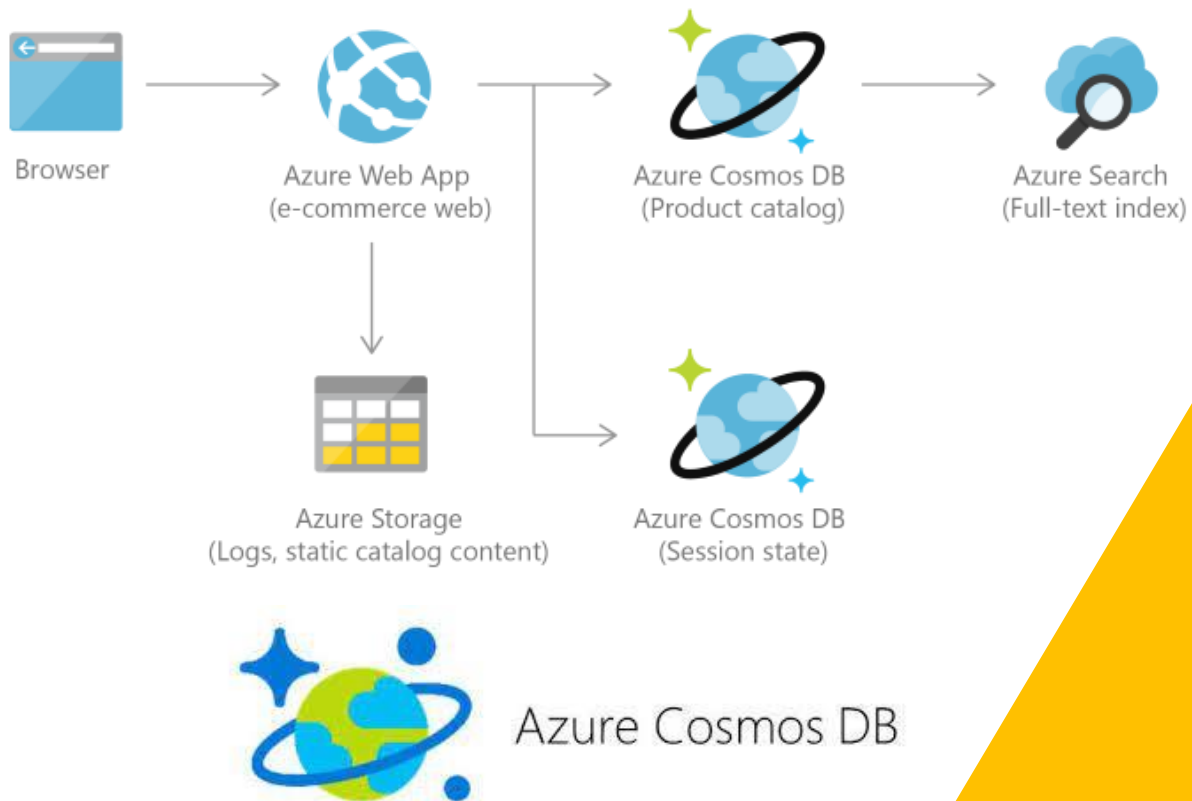
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Azure Cosmos DB is a NoSQL database service that is designed to provide high scalability, low latency, and high availability. It is a globally distributed database that is able to store and replicate data across multiple regions and data centers in Azure.

One of the key features of Cosmos DB is its support for multiple data models including document, key-value, graph, and column-family data models. This allows developers to choose the best data model for their specific use case and provides flexibility in how data is stored and queried.

- ❑ Azure Cosmos DB is a NoSQL database service which is horizontally scalable and globally distributed.
- ❑ It supports multiple database engines and provides APIs for SQL Server, MongoDB, Cassandra, Gremlin and more.
- ❑ Cosmos DB provides reduced latency and guarantees less than 10ms for reads and less than 15 ms latency for writes.
- ❑ Within a 15 milliseconds timeframe, the data is actually written, committed, replicated and indexed.
- ❑ Our experts are known for providing high performance and scalable solutions and have delivered incredible results with write queries as low as 11ms and with read queries as low as 8ms.
- ❑ At Dotsquares, we help large and mid-size companies with database best practices, development, performance tuning, consulting, recruiting services and hands-on training services.
- ❑ Our team consists of certified Azure and Cosmos DB specialists.

Azure Cosmos DB vs AWS Dynamo DB vs Google Cloud Spanner

Components	Cosmos DB	AWS Dynamo DB	Google Cloud Spanner
Global Distribution	Yes (across any Azure Region)	No	No
Horizontal Scalability	Yes (across any Azure Region)	No	No
Multiple APIs	Yes	Yes	No
Low Latency	Yes, at 99th percentile	No	No
Schema Management	Schema Agnostic (No Management Required)	Index Management Required	Schema & Index Management Required
Multi-Model	Yes	No	No
Automatic Indexing	Yes	No	No
Consistency Levels	5 different levels available	2 levels available	Only 1 available
Comprehensive SLAs	Yes	No	No

Reduced Latency

With data replication across multiple Azure regions, Cosmos DB guarantees reduced latency for both reads and writes. Cosmos DB ensures that writes are committed, replicated, and indexed within 15 milliseconds. All reads and writes are served locally and then replicated based on the selected consistency model.



Multi-API support

Since Cosmos DB supports multiple database engines, it also offers multiple APIs to simplify the developer experience. The supported APIs include SQL, JavaScript, Gremlin, MongoDB, Apache Cassandra, and Azure Table Storage.



Multi-Model Database

Cosmos DB is a turnkey solution that supports multiple database engines, making it a multi-model database. Data can be stored in different formats, such as key-value pairs, documents, column-family, or graphs. By default, Cosmos DB uses the Atom record Sequence System (ARS System) to store data as atoms, records or sequences.



Global Distribution

One of the key feature of Cosmos DB is its global capabilities. Businesses can replicate their database once setup across multiple Azure regions, bringing their data closer to their customers. Azure has a global presence across more than 30 regions, and we can add or remove regions at any time.

Offering various consistency levels

Strong Consistency

- Strong Consistency provides the strongest consistency guarantee and ensures that every read operation will return the latest version of the document.

Bounded staleness

- Bounded staleness provides the balance between strong consistency and performance.

Session Level

- Session level provides strong consistency within a session or connection. Within the same session, reads will always return the latest version of a document, while across sessions, some delay in consistency may occur.

Eventual

- This level provides the weakest consistency guarantee, as there is no guarantee that all replicas will have converged before a read operation is performed. However, it offers the highest availability and lowest latency of all the options.

Consistency Prefix

- This level guarantees that all writes will be visible in subsequent read operations and that they will never appear out of order. This level provides good performance and high availability.

Finance

Automotive &
Manufacturing

Gaming

Transportation &
Logistics

Retail

Healthcare

Oil and Gas

How can Dotsquares assist your business with Cosmos DB consulting?



- ❑ Our team has a proven track record of delivering high performance and scalability to our clients. Through our work with Cosmos DB, we have achieved exceptional results with incredibly fast write and read queries.
- ❑ Our team of experts is highly skilled in using the Microsoft technology stack, which is widely recognized as one of the most popular and comprehensive technology stacks available. Our team members have years of experience working on real-world projects using various Microsoft technologies, including .NET, .NET Core, ASP.Net, ASP.NET Core, Microsoft Azure, and other cloud computing platforms.
- ❑ Our experts have in-depth, hands-on experience using all Azure tools, SDKs, and products, which enables us to provide our clients with customized solutions tailored to the specific needs.
<https://learn.microsoft.com/en-us/azure/cosmos-db/use-cases>

(MICROSOFT) CLOUD CERTIFICATIONS



60+ CERTIFIED PROFESSIONALS IN CLOUD RELATED SERVICES



SOME OF OUR CLIENTS



CLIENT'S TESTIMONIALS



What our clients say about us

**“Exceptional team... always aware of deadlines...
...outsourced development **company you can trust”****

- Daniel Ox Managing Director, Ocean Holidays, UK

EXCEPTIONAL TEAM
trustworthy

SHINING STAR
best quality of work

**“The Project Manager has been a shining star...
...the entire team has **gone above and beyond”****

- Tom Atto, J.Ryder Group, USA

“Very pleased with the **quality of work...
...I really believe Dotsquares is **up there with the best”****

- Robert Williams, MD, Gardencentreonline.com, UK

BEST SERVICES
with intelligent approach

better experience

**“Intelligent approach to problems...
...much **better** experience than **UK development companies”****

- Christine, Music Teacher Support Ltd, UK

**“Went beyond the requirements...
...working with them is a **winning formula”****

- Brian Riback, New York Daily News, USA

Goes beyond requirements
WINNING FORMULA

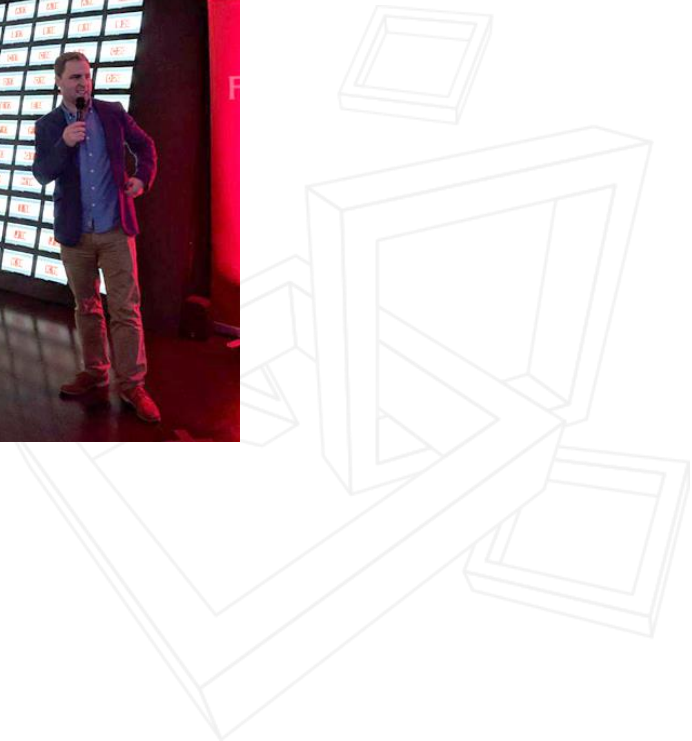


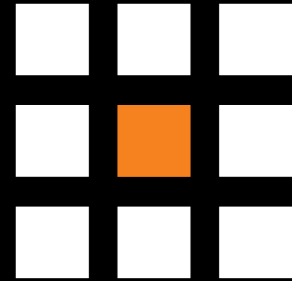
SPEAK TO THE RECORD BREAKERS!



Use your app to set records....

Like Fujitsu who recently ran a single video simultaneously across 220 tablets, which collectively would form one screen like a mosaic – and this many had never been tried before...!





thank you