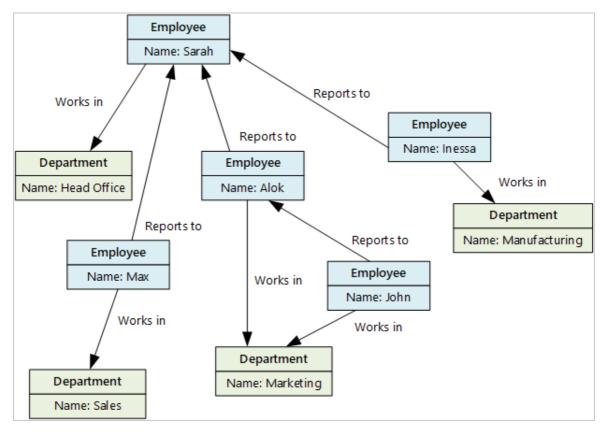
# Module 01: Get started with Azure Cosmos DB SQL API

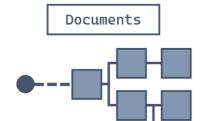
## Introduction to Azure Cosmos DB SQL API

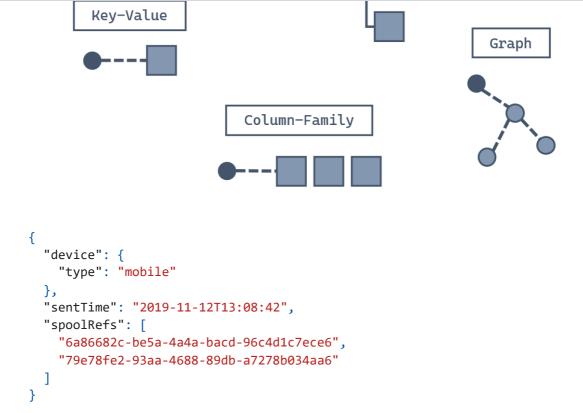
## **NoSQL Concepts**





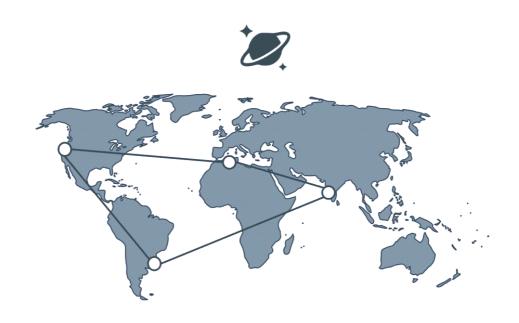
### NoSQL data models





## What is Azure Cosmos DB SQL API?

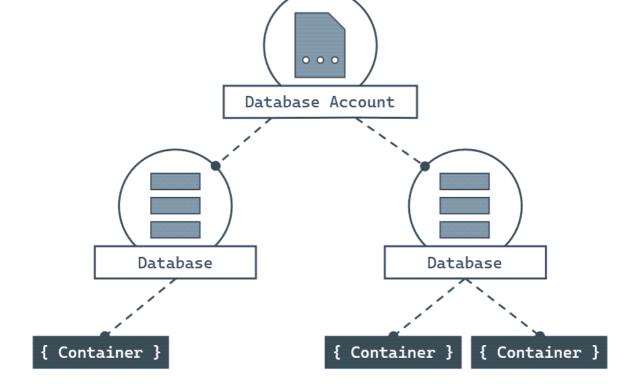
- Rich querying over diverse data
- Helps deliver configurable and reliable performance
- Is globally distributed
- Enables rapid development
- Guaranteed single-digit millisecond response times
- 99.999-percent availability
- SLAs that cover throughput, consistency, availability, and latency.



# What are the components of Azure Cosmos DB SQL API?

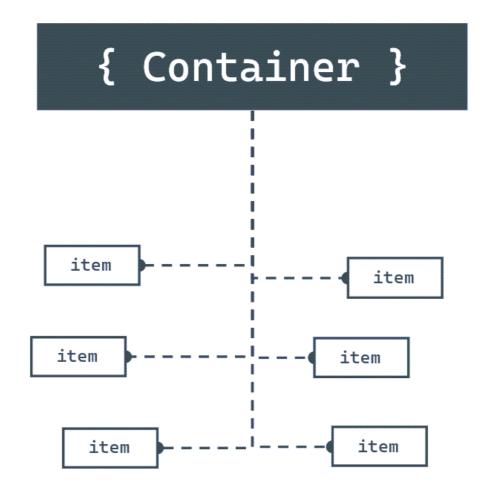
Resource hierarchy:





Container hierarchy:

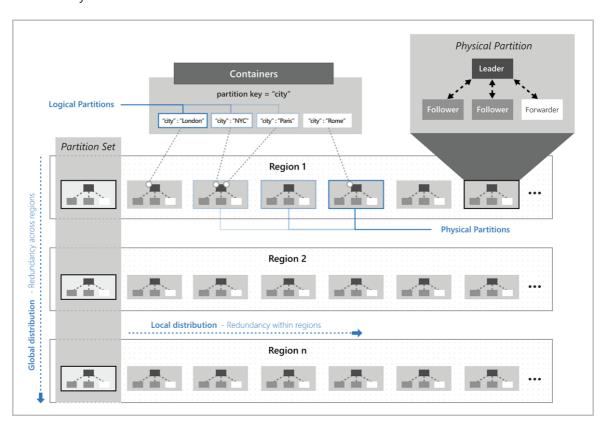
Items:



```
{
  "id": "35b5bf7d-5f0e-4209-b7cb-8c5c70c3bb59",
  "deviceDisplayName": "shared-printer",
  "acquiredYear": 2019,
  "department": {
    "name": "information-technology",
```

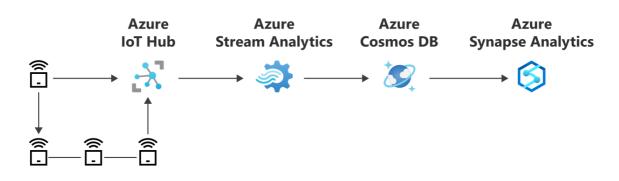
```
"metadata": {
      "location": "floor-5-unit-27"
    }
 },
  "queuedDocuments": [
      "sender": "user-293749329",
      "sentTime": "2019-07-26T05:12:37",
      "pages": 5,
      "spoolRef": "3f4b759c-3230-4269-a88e-de7620ad91c0"
    },
    {
      "device": {
        "type": "mobile"
      },
      "sentTime": "2019-11-12T13:08:42",
      "spoolRefs": [
        "6a86682c-be5a-4a4a-bacd-96c4d1c7ece6",
        "79e78fe2-93aa-4688-89db-a7278b034aa6"
    }
 ]
}
```

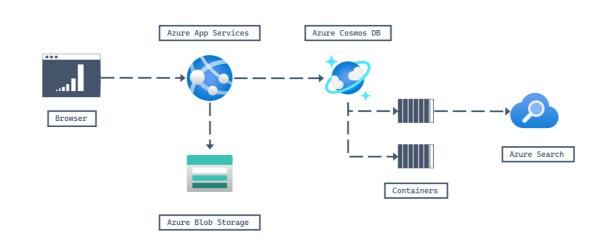
#### Partition keys



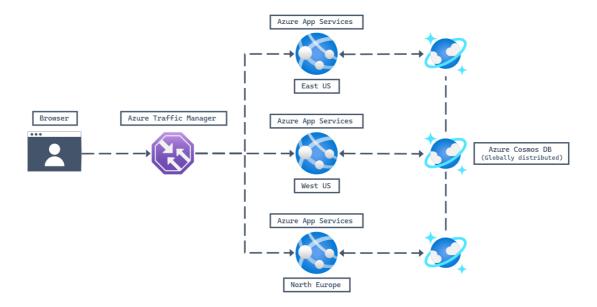
## When should you use Azure Cosmos DB SQL API?

IoT/Telemetry

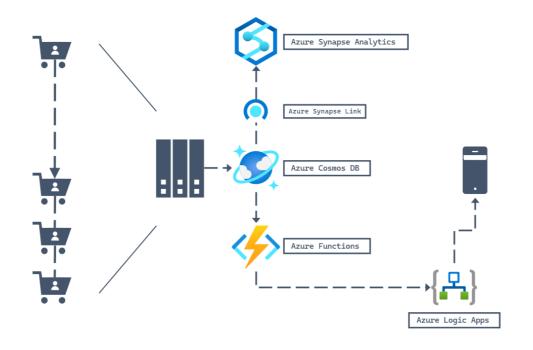




#### Web/mobile



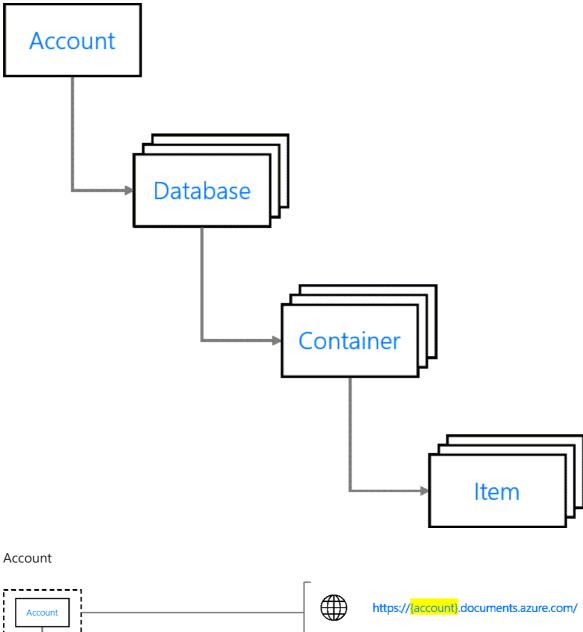
#### Retail

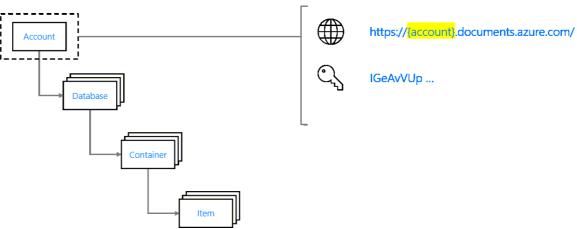


# Try Azure Cosmos DB SQL API

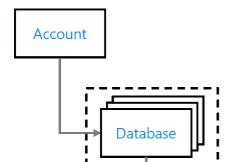
# **Explore Azure Cosmos DB SQL API resources**

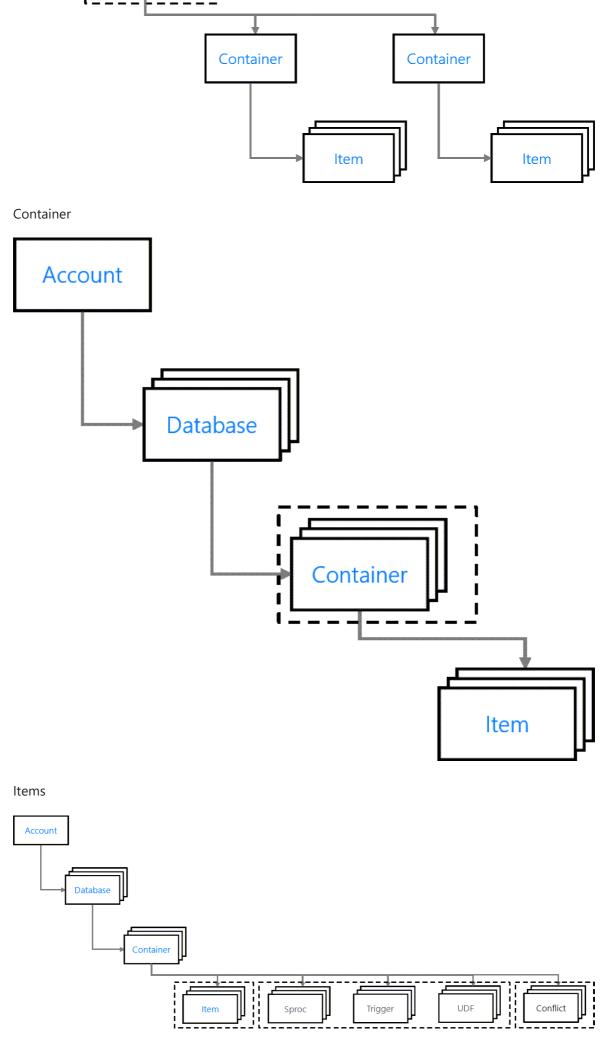
Resource hierarchy:





#### Database



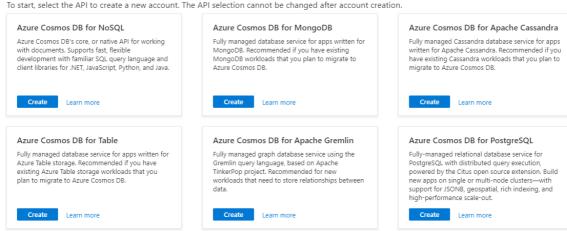


# Creating a new Azure Cosmos DB SQL API account

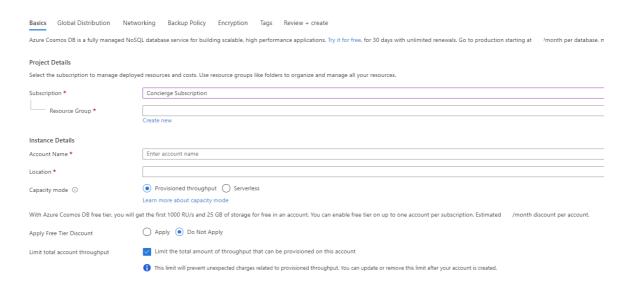
Which API best suits your workload?

Azure Cosmos DB is a fully managed NoSQL database service for building scalable, high performance applications, Learn more

To start, select the API to create a new account. The API selection cannot be changed after account creation.



#### Create Azure Cosmos DB Account - Azure Cosmos DB for NoSQL



## Creating a database, container and item

```
"id": "0012D555-C7DE",
  "type": "customer",
  "fullName": "Franklin Ye",
  "title": null,
  "emailAddress": "fye@cosmic.works",
  "creationDate": "2014-02-05",
  "addresses": [
    {
      "addressLine": "1796 Westbury Drive",
      "cityStateZip": "Melton, VIC 3337 AU"
   },
      "addressLine": "9505 Hargate Court",
      "cityStateZip": "Bellflower, CA 90706 US"
    }
 ],
  "password": {
    "hash": "GQF7qjEgMk=",
    "salt": "12C0F5A5"
 },
  "salesOrderCount": 2
}
```

