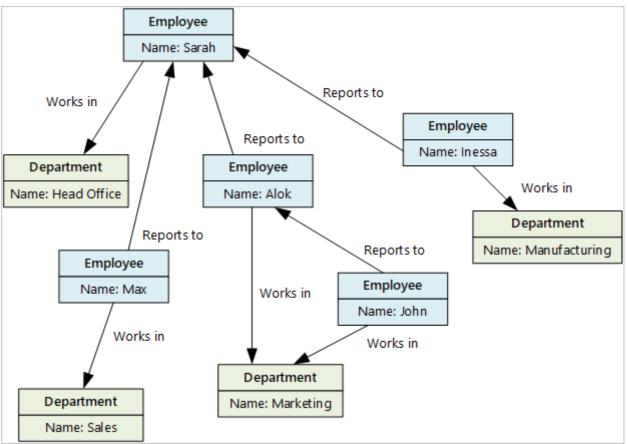
Module 01: Get started with Azure Cosmos DB SQL API

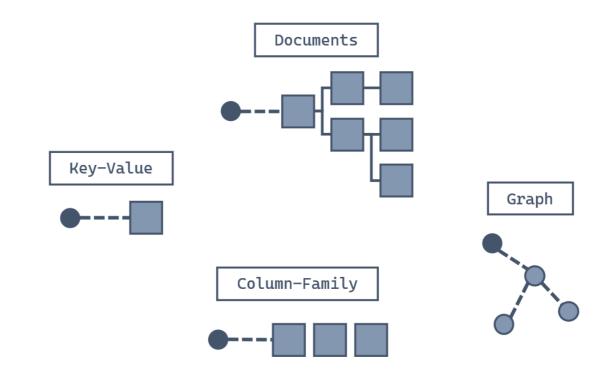
Introduction to Azure Cosmos DB SQL API

NoSQL Concepts





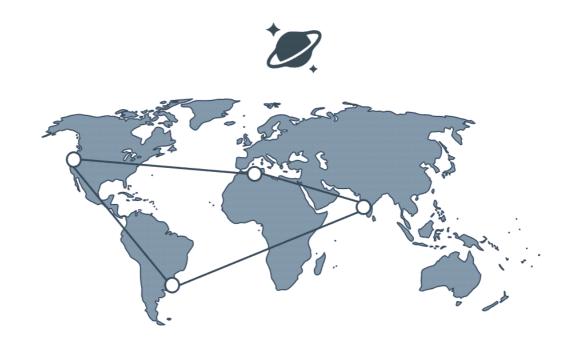
NoSQL data models



```
{
  "device": {
    "type": "mobile"
},
  "sentTime": "2019-11-12T13:08:42",
  "spoolRefs": [
    "6a86682c-be5a-4a4a-bacd-96c4d1c7ece6",
    "79e78fe2-93aa-4688-89db-a7278b034aa6"
]
}
```

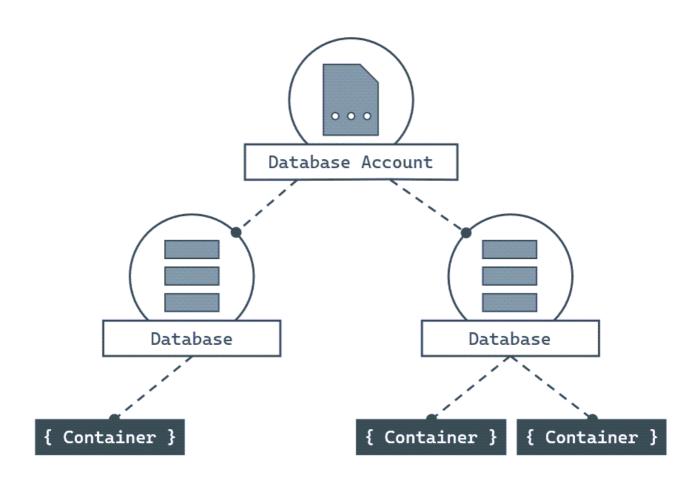
What is Azure Cosmos DB SQL API?

- 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.



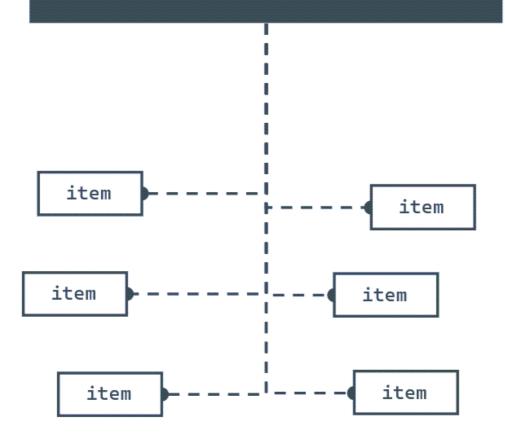
What are the components of Azure Cosmos DB SQL API?

Resource hierarchy:



Container hierarchy:

{ Container }

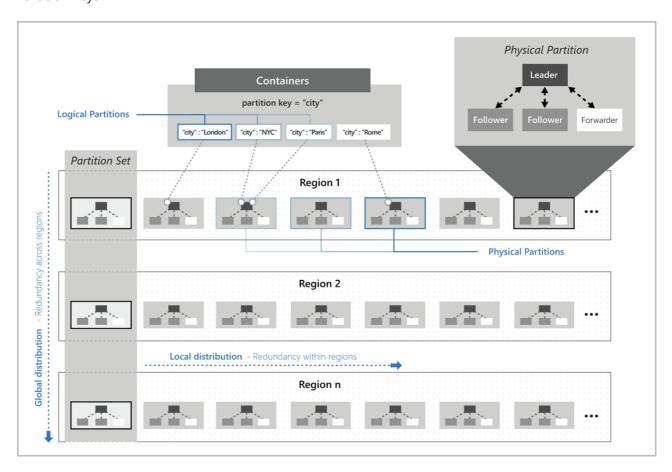


```
Items:
```

```
"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"
  }
```

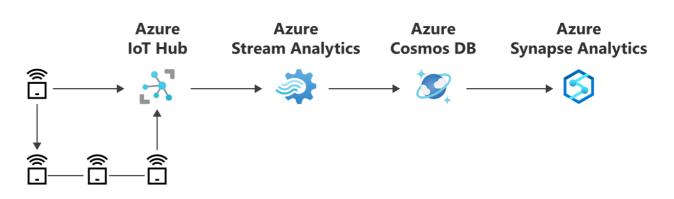
}
Partition keys

]

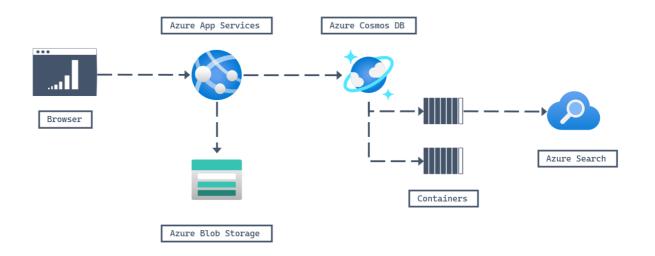


When should you use Azure Cosmos DB SQL API?

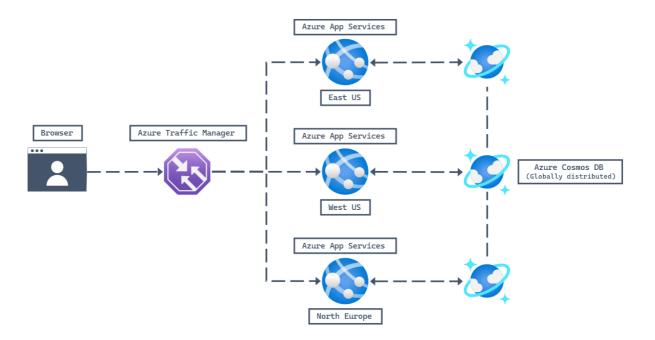
IoT/Telemetry



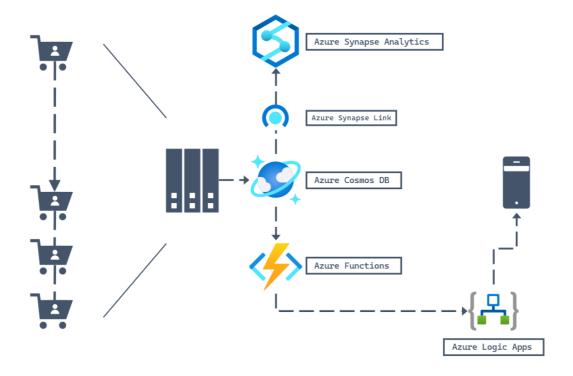
Retail/marketing



Web/mobile



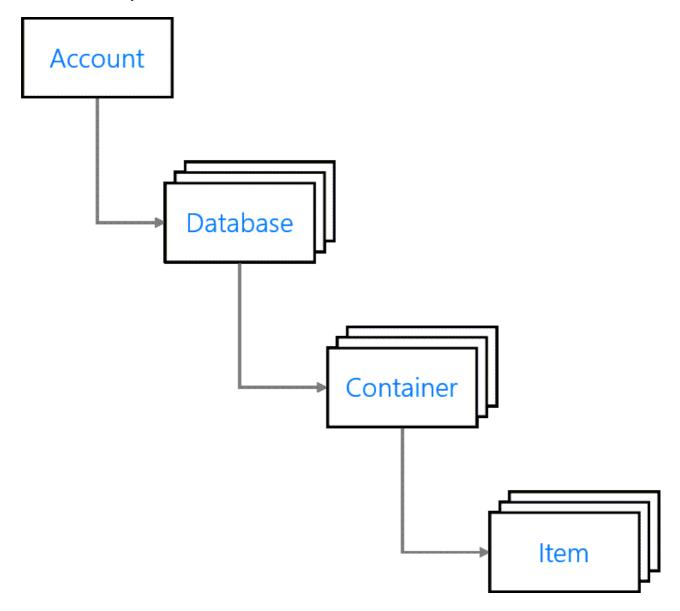
Retail



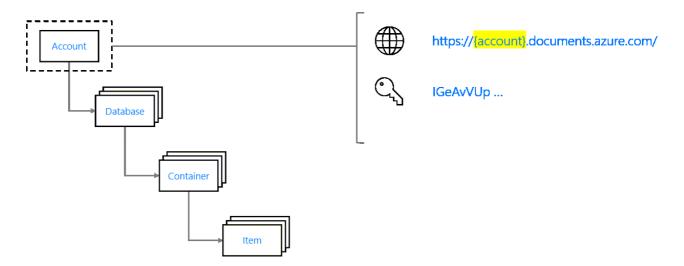
Try Azure Cosmos DB SQL API

Explore Azure Cosmos DB SQL API resources

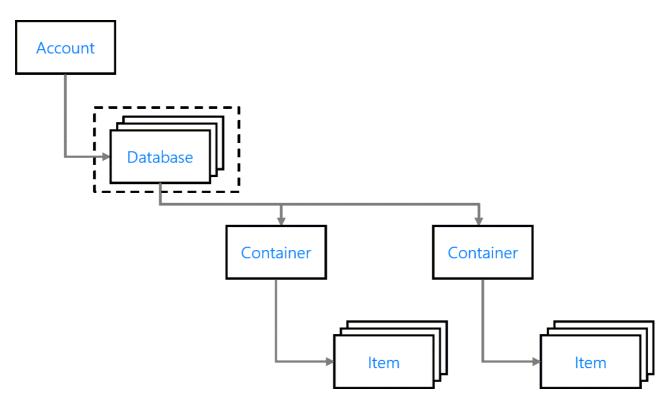
Resource hierarchy:



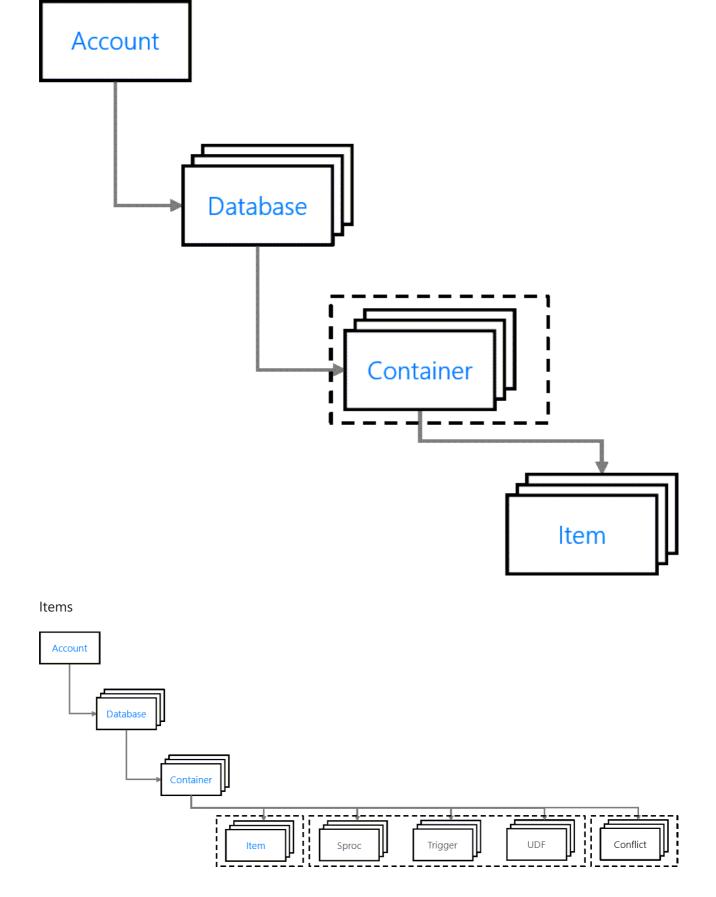
Account



Database



Container

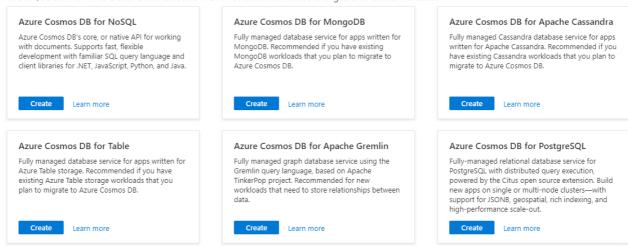


Creating a new Azure Cosmos DB SQL API account

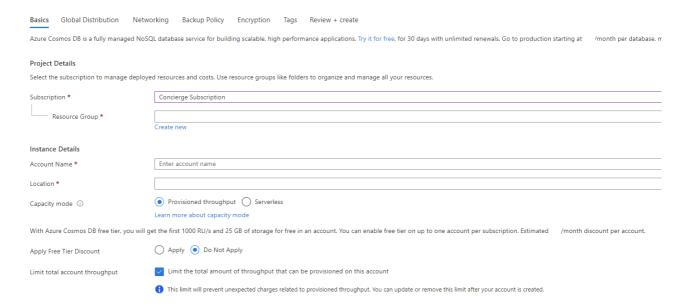
Which API best suits your workload?

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
```