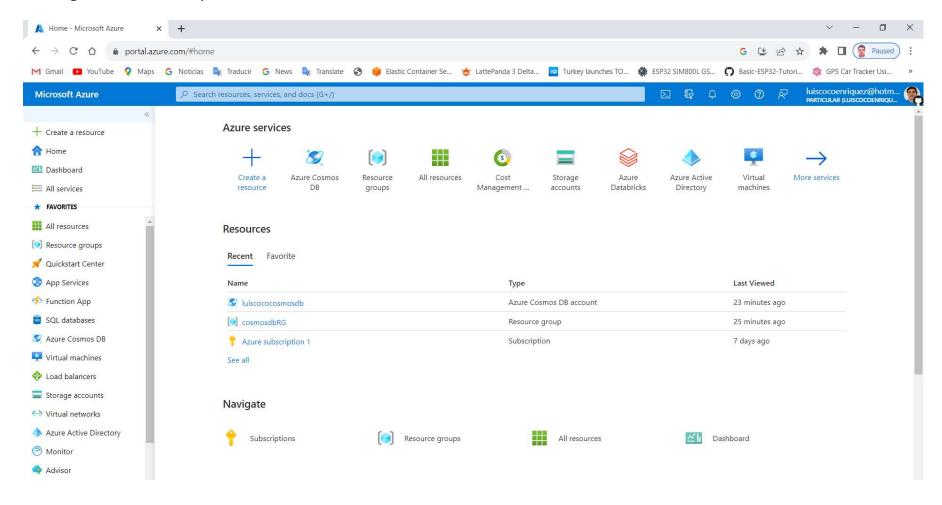
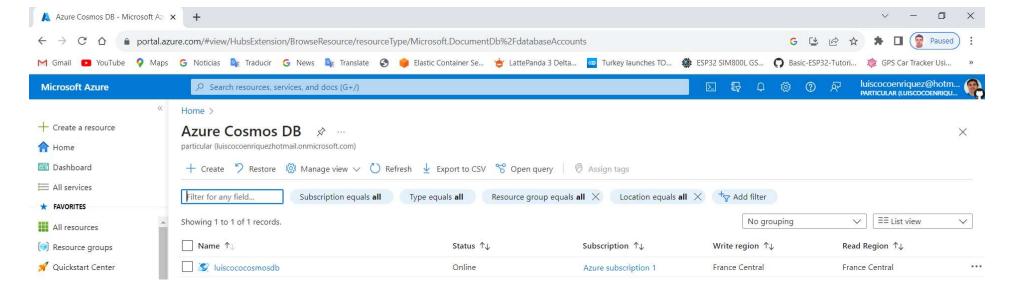
Cosmos DB

console application in C# (quickStart)

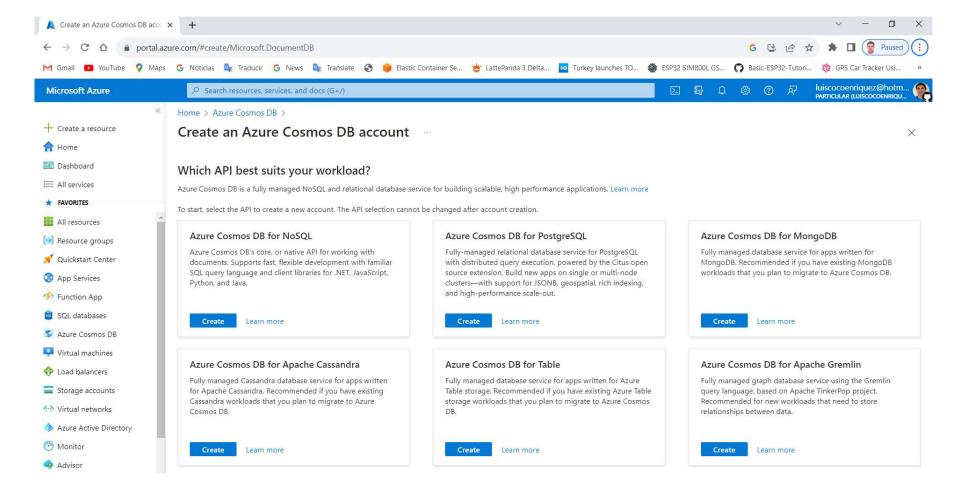
1. Login in the Azure portal and select Azure CosmosDB



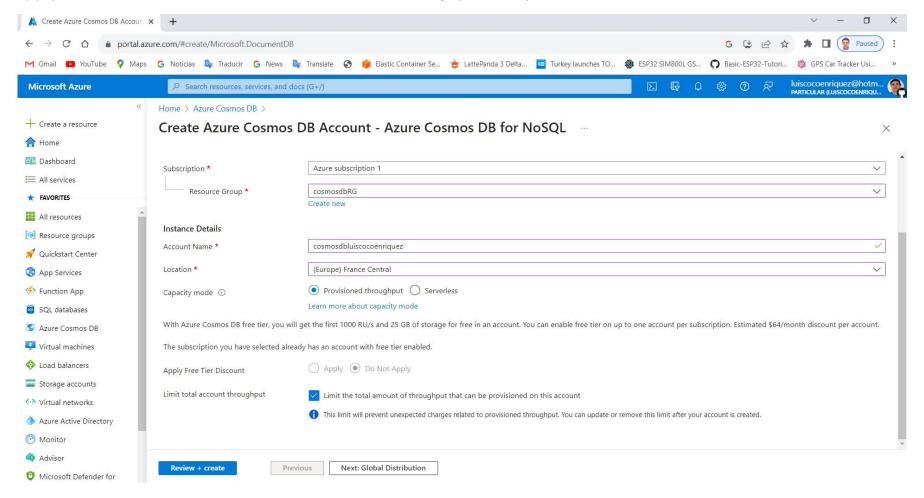
2. Press the "Create" button in the Azure CosmosDB



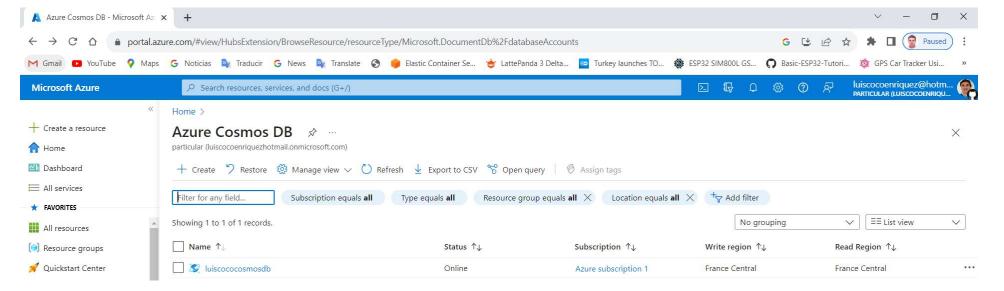
3. Press the "Create" button in the Azure CosmosDB for NoSQL



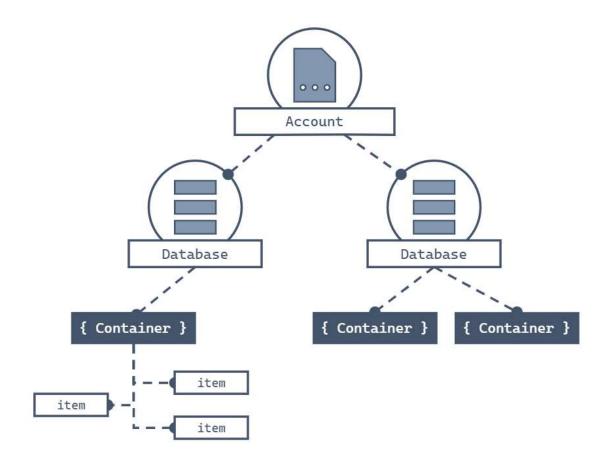
4. Set the Subscription, the resource group, the account name, the location, select the capacity mode, apply the free tier discount, limit total account throughput and press the button "Review + create"



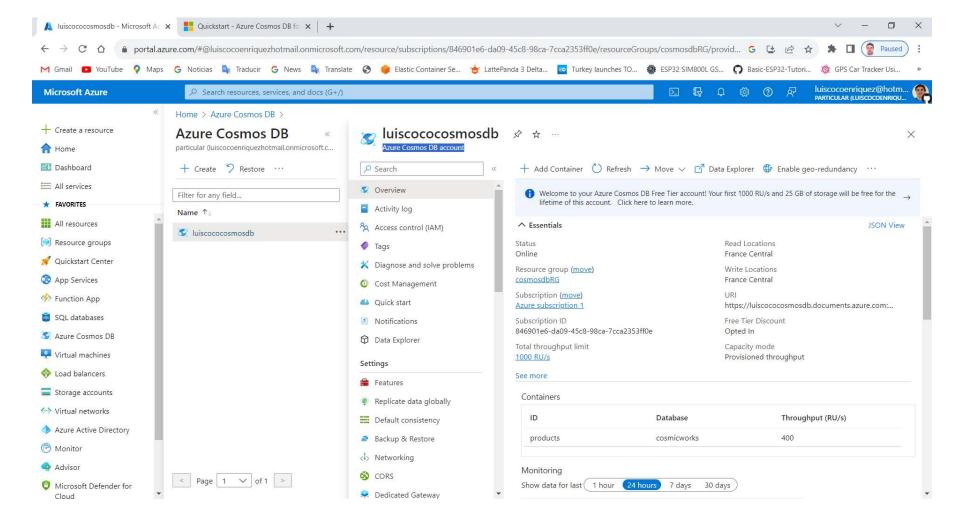
5. Press the CosmosDB link "luiscococosmosdb" to navigate to the Azure CosmosDB account



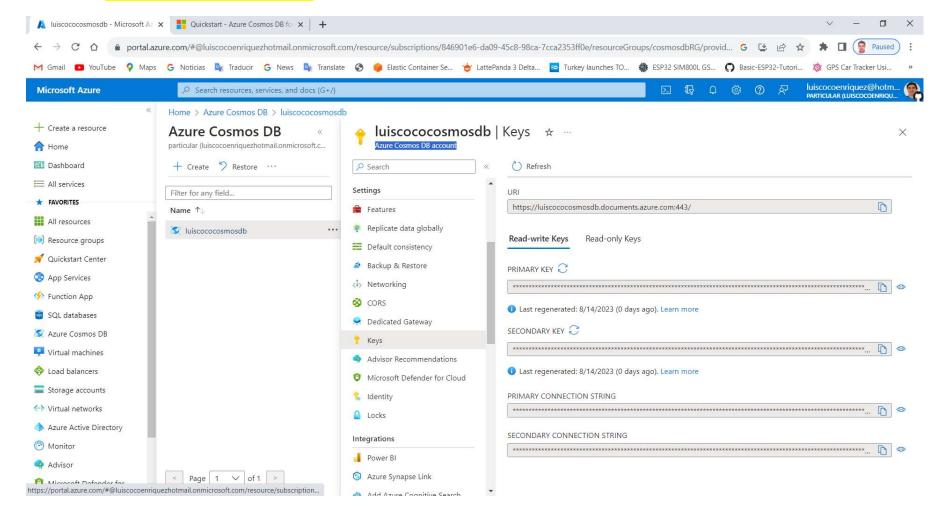
Cosmos DB. Azure Cosmos DB has a specific object model used to create and access resources. The Azure Cosmos DB creates resources in a hierarchy that consists of accounts, databases, containers, and items.



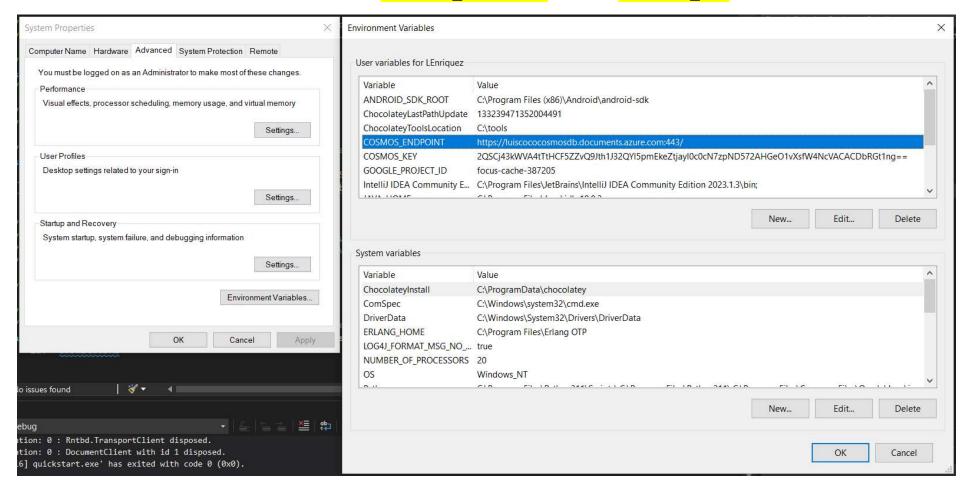
6. Press the CosmosDB link "luiscococosmosdb" to navigate to the Azure CosmosDB account



7. In the Azure CosmosDB account go to the "Keys" option



8. Set the environmental variables values: the COSMOS ENDPOINT and the COSMOS KEY



```
// Copyright (c) Microsoft Corporation. All rights reserved.
// <using_directives>
using Microsoft.Azure.Cosmos;
// </using_directives>
// <client_credentials>
// New instance of CosmosClient class
//We need to set these two variable in the Environment Variables...
using CosmosClient client = new(
    accountEndpoint: Environment.GetEnvironmentVariable("COSMOS_ENDPOINT")!,
   authKeyOrResourceToken: Environment.GetEnvironmentVariable("COSMOS_KEY")!
);
// </client credentials>
// <new_database>
// Database reference with creation if it does not already exist
Database database = await client.CreateDatabaseIfNotExistsAsync(
    id: "cosmicworks"
);
```

```
Console.WriteLine($"New database:\t{database.Id}");
// </new database>
// <new_container>
// Container reference with creation if it does not already exist
Container container = await database.CreateContainerIfNotExistsAsync(
    id: "products",
    partitionKeyPath: "/categoryId",
   throughput: 400
);
Console.WriteLine($"New container:\t{container.Id}");
// </new_container>
// <new_item>
// Create new object and upsert (create or replace) to container
Product newItem = new(
    id: "70b63682-b93a-4c77-aad2-65501347265f",
    categoryId: "61dba35b-4f02-45c5-b648-c6badc0cbd79",
    categoryName: "gear-surf-surfboards",
    name: "Yamba Surfboard",
    quantity: 12,
    sale: false
);
Product createdItem = await container.CreateItemAsync<Product>(
    item: newItem,
    partitionKey: new PartitionKey("61dba35b-4f02-45c5-b648-c6badc0cbd79")
);
```

```
// <query_items>
// Create query using a SQL string and parameters
var query = new QueryDefinition(
    query: "SELECT * FROM products p WHERE p.categoryId = @categoryId"
)
    .WithParameter("@categoryId", "61dba35b-4f02-45c5-b648-c6badc0cbd79");
using FeedIterator<Product> feed = container.GetItemQueryIterator<Product>(
    queryDefinition: query
);
while (feed.HasMoreResults)
{
    FeedResponse<Product> response = await feed.ReadNextAsync();
    foreach (Product item in response)
    {
        Console.WriteLine($"Found item:\t{item.name}");
    }
}
// </query_items>
```