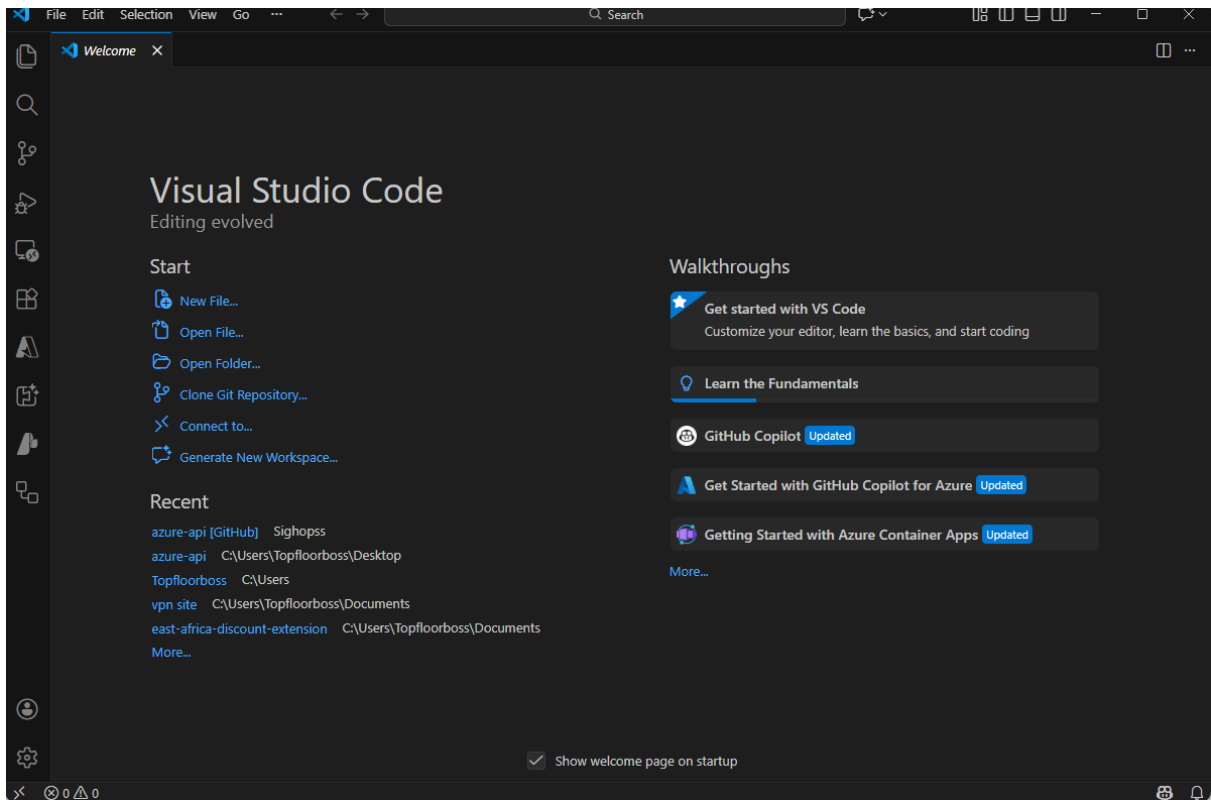


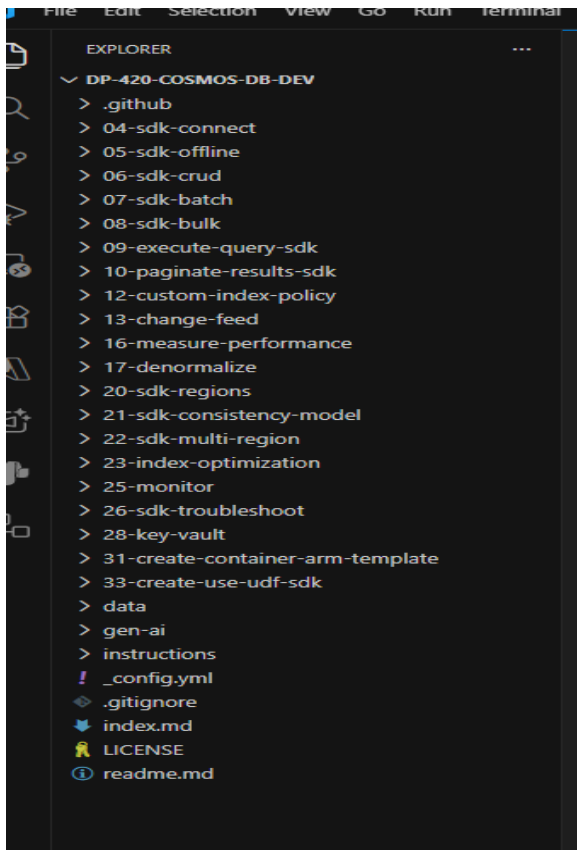


Trevor Kutto

Cloud Industry Trends - Lab 3 – Cosmos DB Change Feed



Visual studio code opened and we are able to see the welcome page



Successfully cloned the repository

Create Azure Cosmos DB Account - Azure Cosmos DB for NoSQL

✓ Validation Success

Basics Global distribution Networking Backup Policy Security Tags Review + create

Creation Time

Estimated Account Creation Time (in minutes) 2

i The estimated creation time is calculated based on the location you have selected

Basics

Subscription	Azure for Students
Resource Group	(new) lab-3
Location	Canada Central
Account Name	(new) cosmosdb-wekalab
API	Azure Cosmos DB for NoSQL
Capacity mode	Serverless
Availability Zones	Disable

Backup Policy

Backup policy	Periodic
Backup storage redundancy	Geo-redundant backup storage




Security

Key-based Authentication	(new) Enable
Data Encryption	Service Managed

Networking

Connectivity method	All networks
Minimum TLS Protocol	TLS 1.2

Azure cosmos db initialized and validation was a success


cosmosdb-wekalab
☆
...
 How do I troubleshoot performance issues with this resource?
 List the access keys for this Azure Cosmos DB account.
+1
×

◇
«

+ Add Container
↻ Refresh
📁 Move
🔗 Open in VS Code
📊 Data Explorer
↗️ Change capacity mode to Provisioned throughput
...

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Quick start

Data Explorer

Mirroring in Fabric

Container Copy

Resource visualizer

Settings

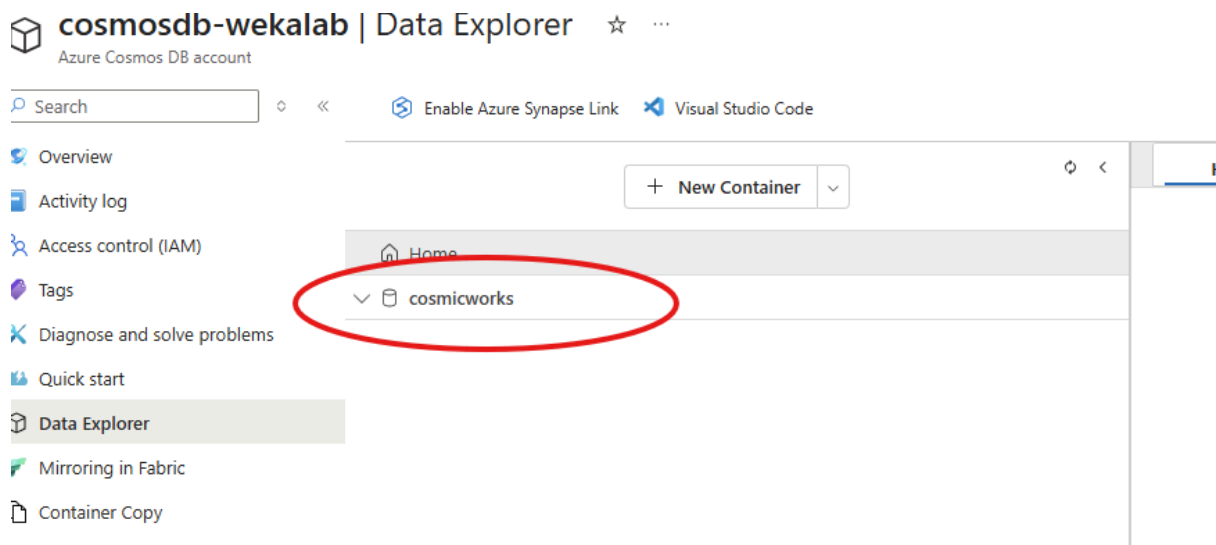
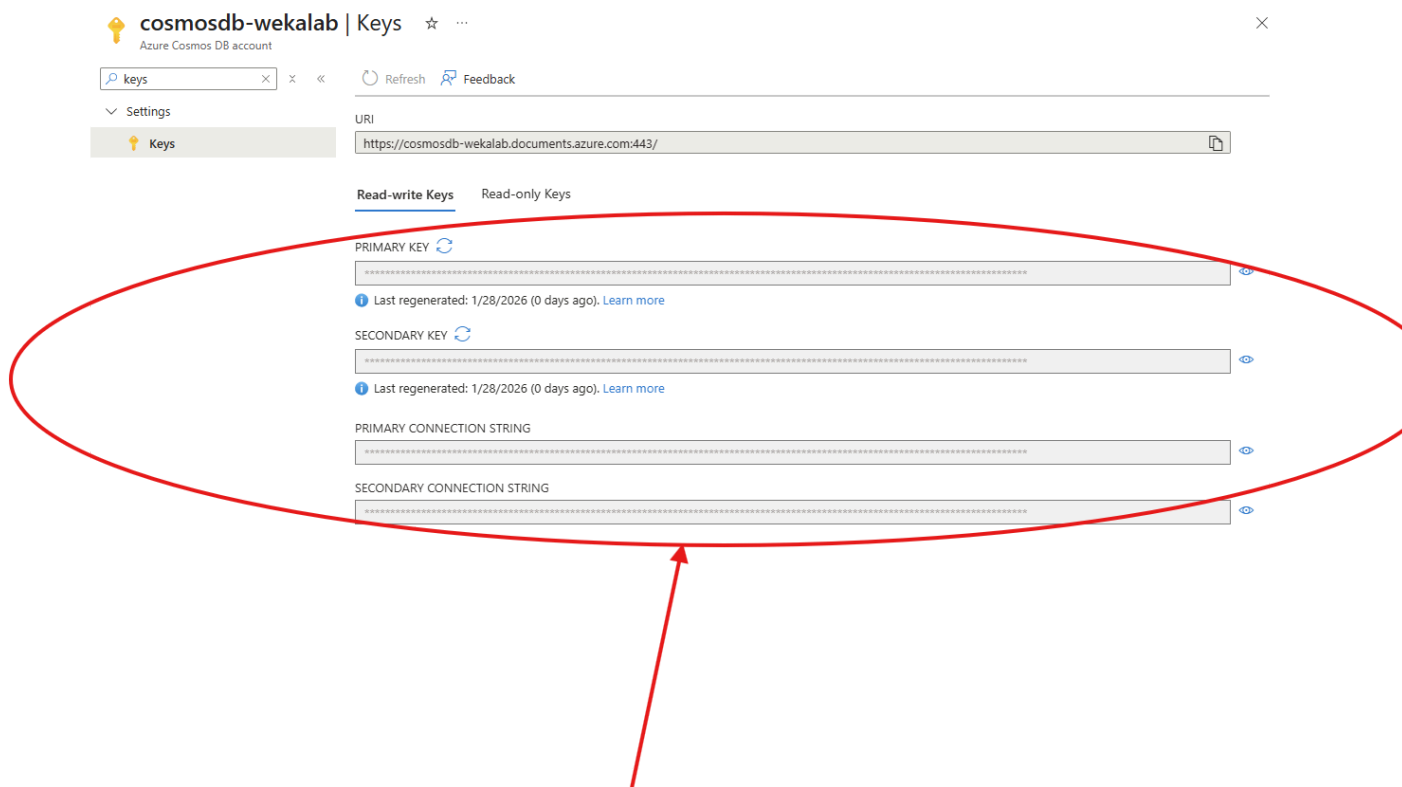
Integrations

Containers

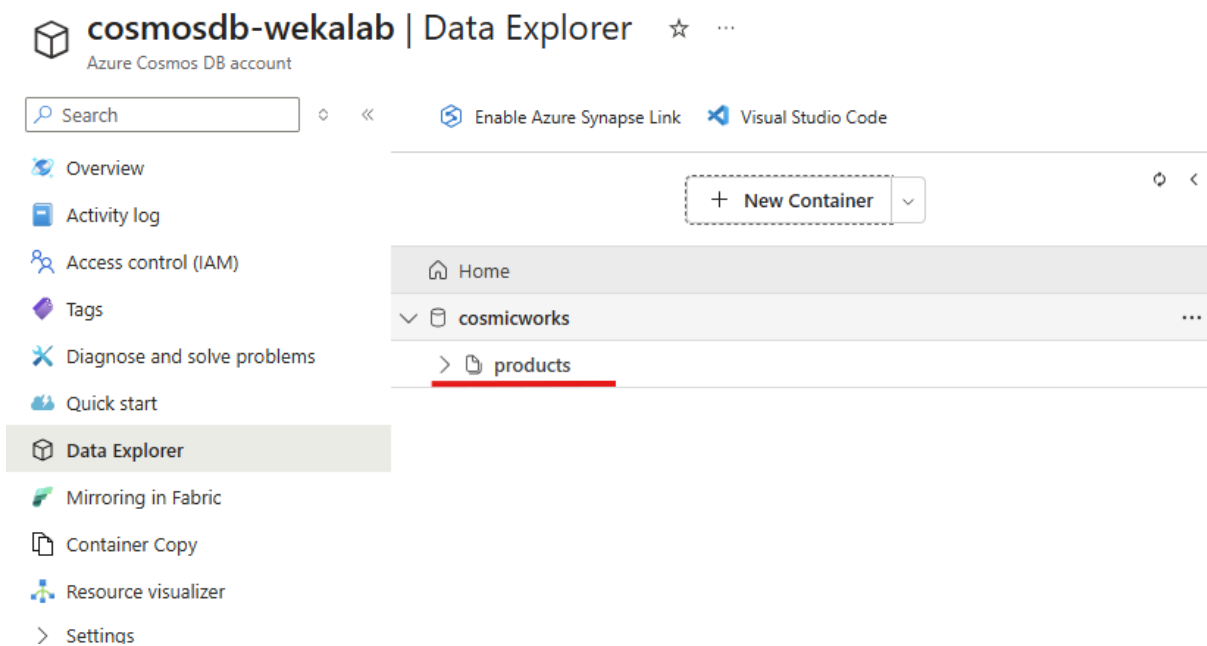
Essentials JSON View

Status	Read Locations
Online	Canada Central
Resource group (move)	Write Locations
lab-3	Canada Central
Subscription (move)	URI
Azure for Students	https://cosmosdb-wekalab.documents.azure.com:443/
Subscription ID	Free Tier Discount
acc96d9d-e040-48a5-9191-cd80276cb66d	Opted Out
Total throughput limit	Capacity mode
4000 RU/s	Serverless
See more	

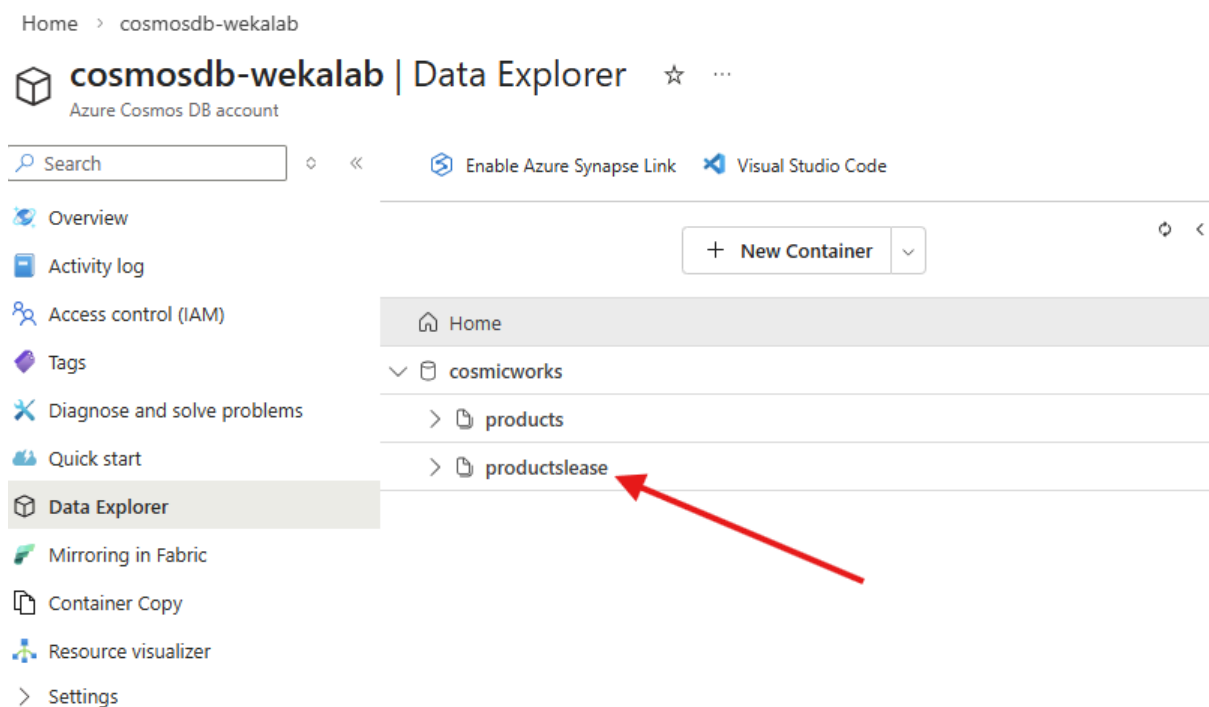
Important: If you're using the Azure Cosmos DB Java SDK, we strongly recommend upgrading to version 4.48.2 or later as soon as possible to ensure optimal performance and stability. [Learn More](#)



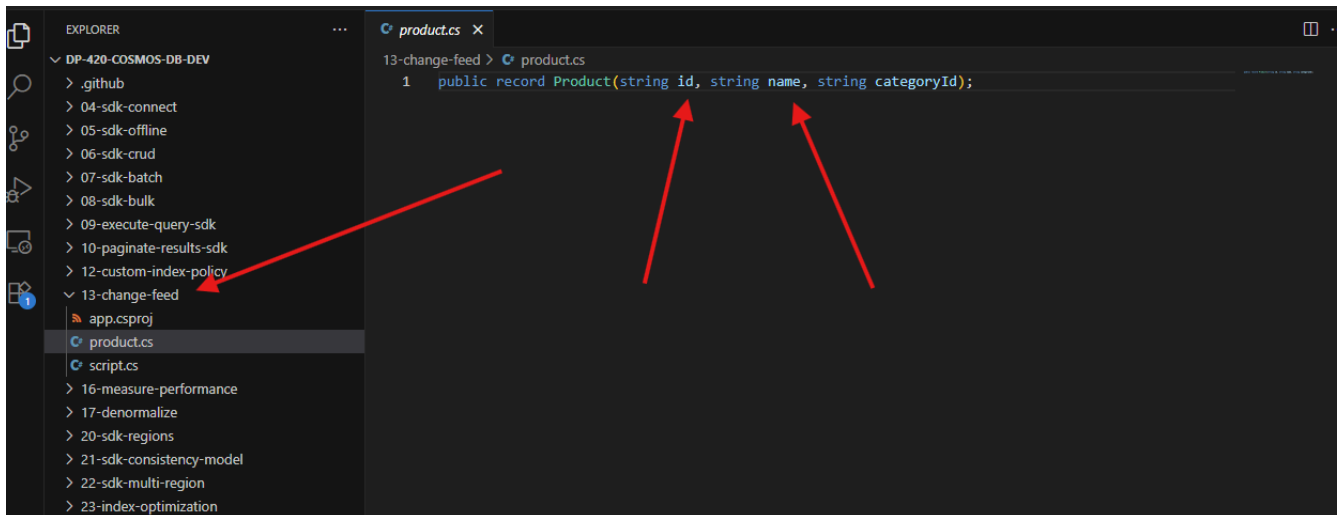
The database cosmic works has been created and is ready for use highlighted in red



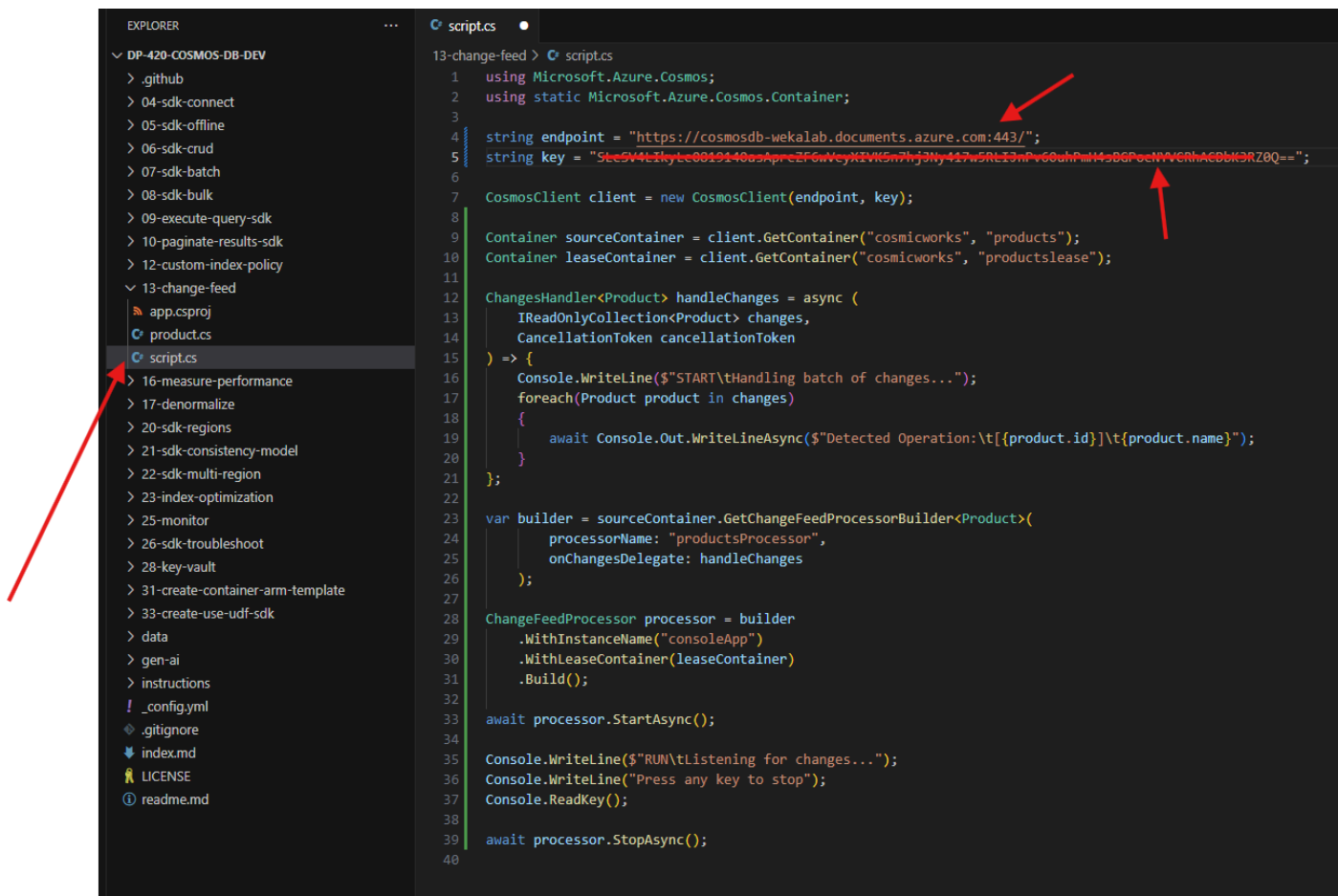
The container is created successfully under cosmicworks database



The container is created under one database



The change feed folder with the class properties highlighted



The script file with keys input as said in the instruction document

```
PS C:\Users\lab654\OneDrive\Documents\cosmosDB\dp-420-cosmos-db-dev\13-change-feed> dotnet run
x86
7.0.17 at [C:\Program Files (x86)\dotnet\shared\Microsoft.NETCore.App]

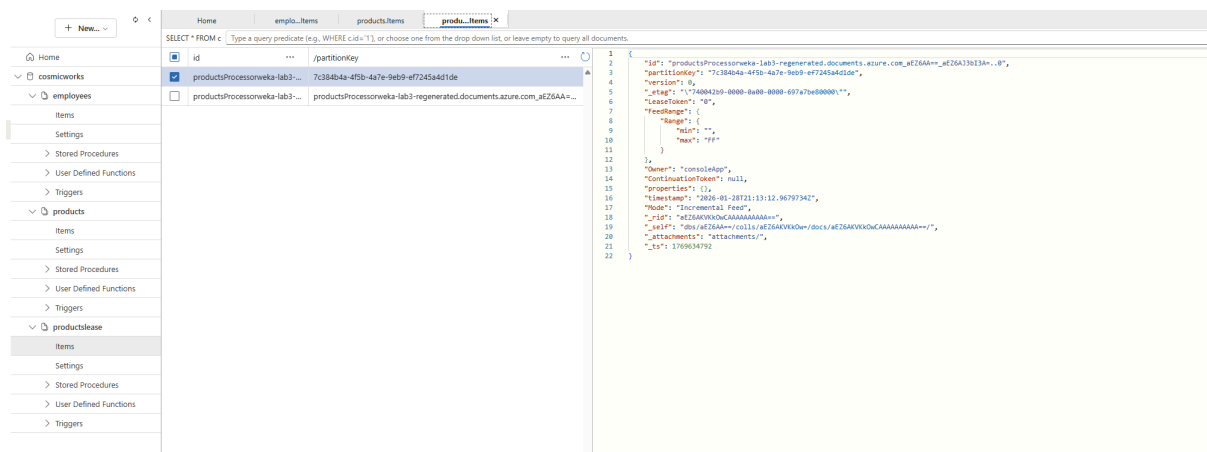
Learn more:
https://aka.ms/dotnet/app-launch-failed

To install missing framework, download:
https://aka.ms/dotnet-core-applaunch?framework=Microsoft.NETCore.App&framework_version=8.0.0&arch=x64&rid=win-x64&os=win10
PS C:\Users\lab654\OneDrive\Documents\cosmosDB\dp-420-cosmos-db-dev\13-change-feed> dotnet run
Unhandled exception. System.FormatException: The input is not a valid Base-64 string as it contains a non-base 64 character, more
than two padding characters, or an illegal character among the padding characters.
   at System.Convert.FromBase64CharPtr(Char* inputPtr, Int32 inputLength)
   at System.Convert.FromBase64String(String s)
   at Microsoft.Azure.Cosmos.StringMACSHA256Hash..ctor(String base64EncodedKey)
   at Microsoft.Azure.Cosmos.AuthorizationTokenProviderMasterKey..ctor(String authKey)
   at Microsoft.Azure.Cosmos.AuthorizationTokenProvider.CreateWithResourceTokenOrAuthKey(String authKeyOrResourceToken)
   at Microsoft.Azure.Cosmos.CosmosClient..ctor(String accountEndpoint, String authKeyOrResourceToken, CosmosClientOptions clientOptions)
   at Program.<Main>$(String[] args) in C:\Users\lab654\OneDrive\Documents\cosmosDB\dp-420-cosmos-db-dev\13-change-feed\script.cs:line 7
PS C:\Users\lab654\OneDrive\Documents\cosmosDB\dp-420-cosmos-db-dev\13-change-feed> dotnet run
RUN Listening for changes...
Press any key to stop
[]
```

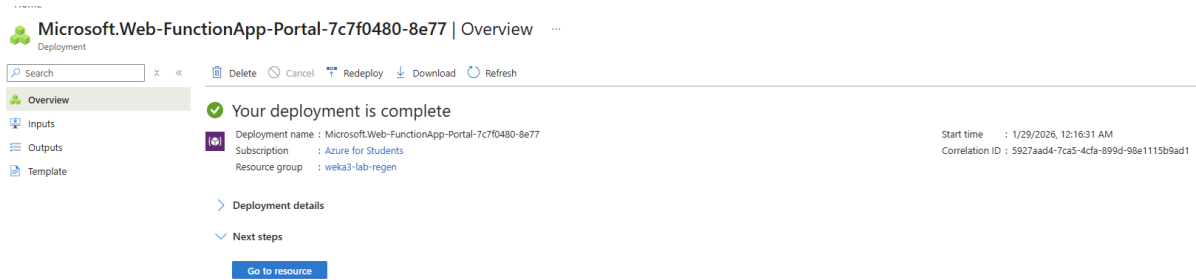
Listening happens after dotnet is properly installed on the device

```
dotnet console
dotnet console (version 7.0.17) was successfully installed.
PS C:\Users\lab654\OneDrive\Documents\cosmosDB\dp-420-cosmos-db-dev> dotnet console
Parsing connection string https://aka.ms/regenerated-documents.azure.com:443/...
what is your connection string? AccountEndpoint=https://aka.ms/regenerated-documents.azure.com:443/;AccountKey=...;DatabaseName=cosmicworks;
Connection string: AccountEndpoint=https://aka.ms/regenerated-documents.azure.com:443/;AccountKey=...;DatabaseName=cosmicworks;
Database: cosmicworks
Container: employees
Populating data
Employees configuration
|| count || 234 || database: cosmicworks || container: employees || running: (rows are generated in parallel and the order of output log
Error: Response status code does not indicate success: BadRequest (400); Substatus: 0; ActivityId:
238d8b-b69-4837-b696-4e6dab8989, Reason: (Modifying or repairing offers is not supported for serverless accounts.
ActivityId: c28d8b-b69-4837-b696-4e6dab8989, Microsoft.Azure.Documents.Common/2.14.0,
Microsoft.Azure.Cosmos.Tracing.TraceData.ClientSideRequestStatisticsTracerData, Windows/10.0.22031
cosmos.netstandard;2.0.3.4);
PS C:\Users\lab654\OneDrive\Documents\cosmosDB\dp-420-cosmos-db-dev>
```

I kept on getting this error even after trying to regenerate using the provisioned throughput which needs admin to approve more data transfer speeds which leaves me in limbo and cant really do much here with being stuck in such a situation i went back and forth thrice but the same error and online says to use provisioned throughput but that isnt allowed when making the two containers



Some stuff was generated here and i was able to put it in my report even though seeding was quite literally impossible to do



Function app created and is deployed

I was not able to do anything else since the create a function button isn't there for .NET version 8 and there is no 6 just 8 and 9 being displayed as available versions here to be honest

I got stuck continuing from here because of the first error needing extra throughput and the extra provision to get 4000ru is impossible and i was able to get to this point