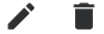


CLOUD FUNCTION OVERVIEW

7:54

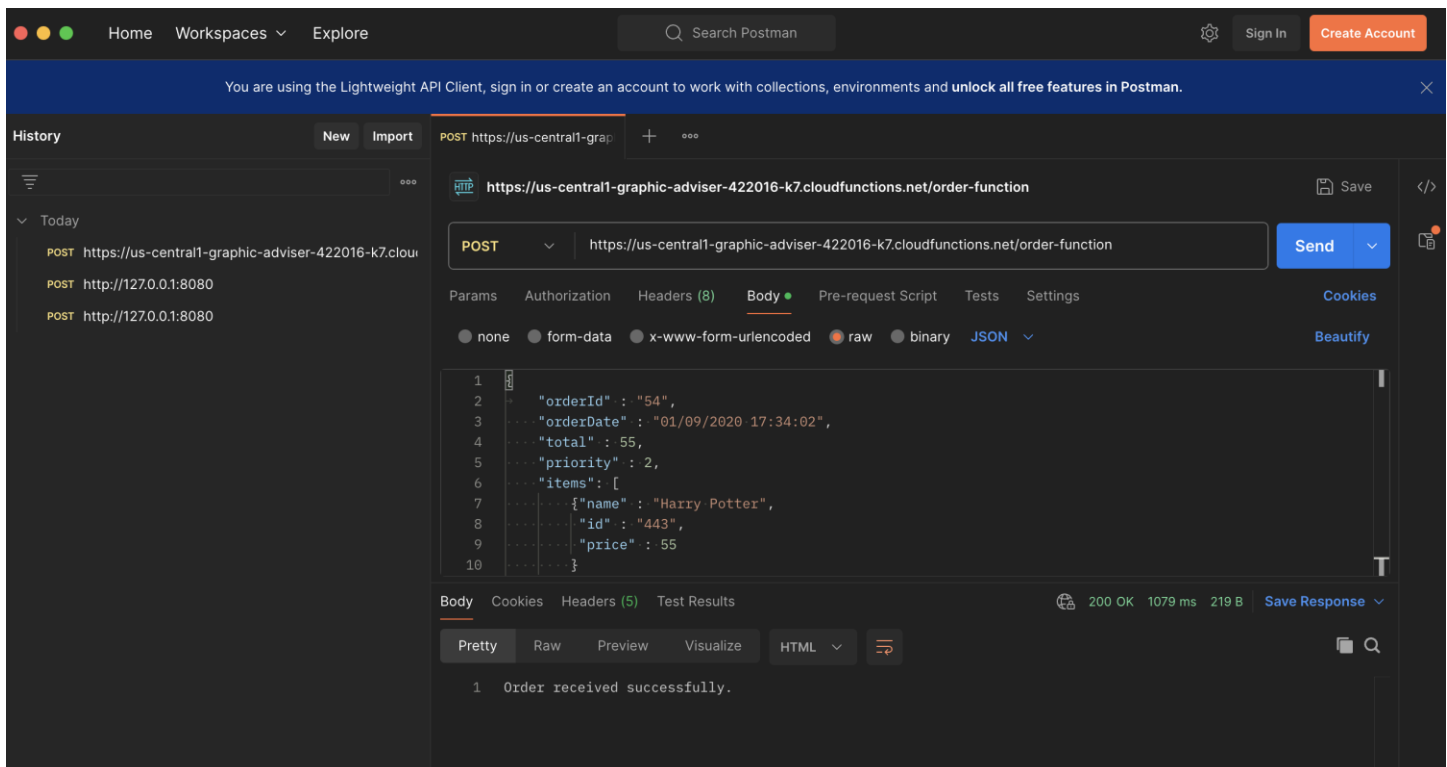
10. Cloud Functions 98. Running Functions Locally



The commands related to creating Google Cloud Functions projects using .NET.

1. `dotnet new -i Google.Cloud.Functions.Templates` :
 - This command installs templates for Google Cloud Functions in your .NET environment.
 - The `-i` flag stands for "install" and specifies that you want to install a template.
 - `Google.Cloud.Functions.Templates` is the package name that contains the templates for Google Cloud Functions.
2. `dotnet new gcf-http` :
 - This command creates a new HTTP-triggered Google Cloud Functions project using .NET.
 - It generates the basic structure and files needed for a Cloud Functions project with an HTTP trigger.
 - The `gcf-http` argument specifies the template to use for creating the project.

So, running these two commands allows you to install the necessary templates for Google Cloud Functions and then create a new HTTP-triggered Cloud Functions project using .NET.



```
gcloud functions deploy order-function --gen2 --runtime=dotnet6 --region=us-central1 --source=. --entry-point=order_function.Function --trigger-http --allow-unauthenticated
```

This command deploys a Google Cloud Function named "order-function" using the .NET 6 runtime in the "us-central1" region. Here's a breakdown of the flags and parameters used:

- `gcloud functions deploy`: This is the command used to deploy a Google Cloud Function.
- `order-function`: This is the name of the Cloud Function being deployed.
- `--gen2`: Specifies that the function should use the second generation runtime.
- `--runtime=dotnet6`: Specifies the runtime for the function, in this case, .NET 6.
- `--region=us-central1`: Specifies the region where the function will be deployed, in this case, "us-central1".

- `--source=.`: Specifies the source directory containing the function's source code. Here, `.` refers to the current directory.
- `--entry-point=order_function.Function`: Specifies the entry point for the function within the source code. In this case, it's assuming the function is contained within a class named "order_function" with a method named "Function".
- `--trigger-http`: Specifies that the function should be triggered by HTTP requests.
- `--allow-unauthenticated`: Specifies that unauthenticated invocations are allowed. This means that the function can be invoked without requiring authentication or authorization.

Overall, this command deploys a .NET 6 Cloud Function named "order-function" in the "us-central1" region, triggered by HTTP requests, and allows unauthenticated access.

```
object: order-function/function-source.zip
createTime: '2024-05-07T17:00:28.182115280Z'
environment: GEN_2
labels:
  deployment-tool: cli-gcloud
name: projects/graphic-adviser-422016-k7/locations/us-central1/functions/order-function
serviceConfig:
  allTrafficOnLatestRevision: true
  availableCpu: '0.1666'
  availableMemory: 256M
  ingressSettings: ALLOW_ALL
  maxInstanceCount: 100
  maxInstanceRequestConcurrency: 1
  revision: order-function-00001-tul
  service: projects/graphic-adviser-422016-k7/locations/us-central1/services/order-function
  serviceAccountEmail: 1097944015704-compute@developer.gserviceaccount.com
  timeoutSeconds: 60
  uri: https://order-function-gfpbfsqlx3a-uc.a.run.app
state: ACTIVE
updateTime: '2024-05-07T17:02:58.829722442Z'
url: https://us-central1-graphic-adviser-422016-k7.cloudfunctions.net/order-function
(base) rohankodavalla@Rohans-Air order-function %
```

Google Cloud

My First Project

cloud func

Search

Cloud Functions

Function details

EDIT

DELETE

COPY

order-function

2nd gen

(Deployed at May 7, 2024, 1:02:58 PM)

URL: https://us-central1-graphic-adviser-422016-k7.cloudfunctions.net/order-function

METRICS

DETAILS

SOURCE

VARIABLES

TRIGGER

PERMISSIONS

LOGS

TESTING

Logs

Severity Default

Filter

Search all fields and values

SEVERITY	TIMESTAMP	SUMMARY
> *	2024-05-07 13:08:16.179 EDT	Order received: {
> *	2024-05-07 13:08:16.179 EDT	"orderId" : "54",
> *	2024-05-07 13:08:16.179 EDT	"orderDate" : "01/09/2020 17:34:02",
> *	2024-05-07 13:08:16.179 EDT	"total" : 55,
> *	2024-05-07 13:08:16.179 EDT	"priority" : 2,
> *	2024-05-07 13:08:16.179 EDT	"items": [
> *	2024-05-07 13:08:16.179 EDT	{"name" : "Harry Potter",
> *	2024-05-07 13:08:16.179 EDT	"id" : "443",
> *	2024-05-07 13:08:16.180 EDT	"price" : 55
> *	2024-05-07 13:08:16.180 EDT]
> *	2024-05-07 13:08:16.180 EDT	}
> *	2024-05-07 13:08:16.186 EDT	Order function completed
> i	2024-05-07 13:08:16.188 EDT	Request finished HTTP/1.1 POST http://us-central1-graphic-adviser-422016-k7.cloudfunctions.net/ application/json 212 - 200 - - 33.8005ms