**Setting Up local environment**

Download & install golang :- [https://go.dev/dl/](about:blank)

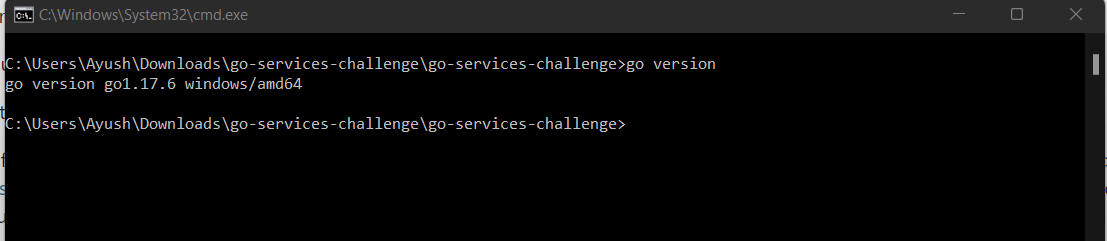
Downlaod & install Redis :- [https://redis.io/download](about:blank)

Download & install postman :- [https://www.postman.com](about:blank)

**Check if go is instaled**

**Run command** > go version

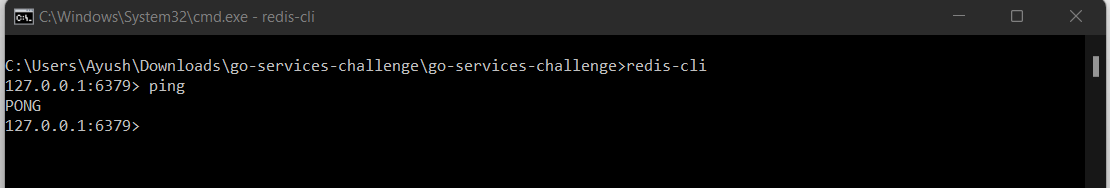
If version appears then go is installed correctly.



**Check if redis is installed(if in windows) open cmd**

**Run command** > redis-cli

Then run ping and you will get response PONG



Redis should be running on 127.0.0.1:6379

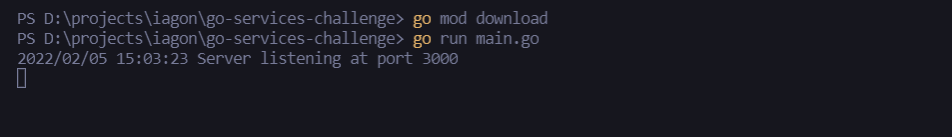
**Running code**

1. Cd inside folder go-services-challenge and run following commands

>go mod download

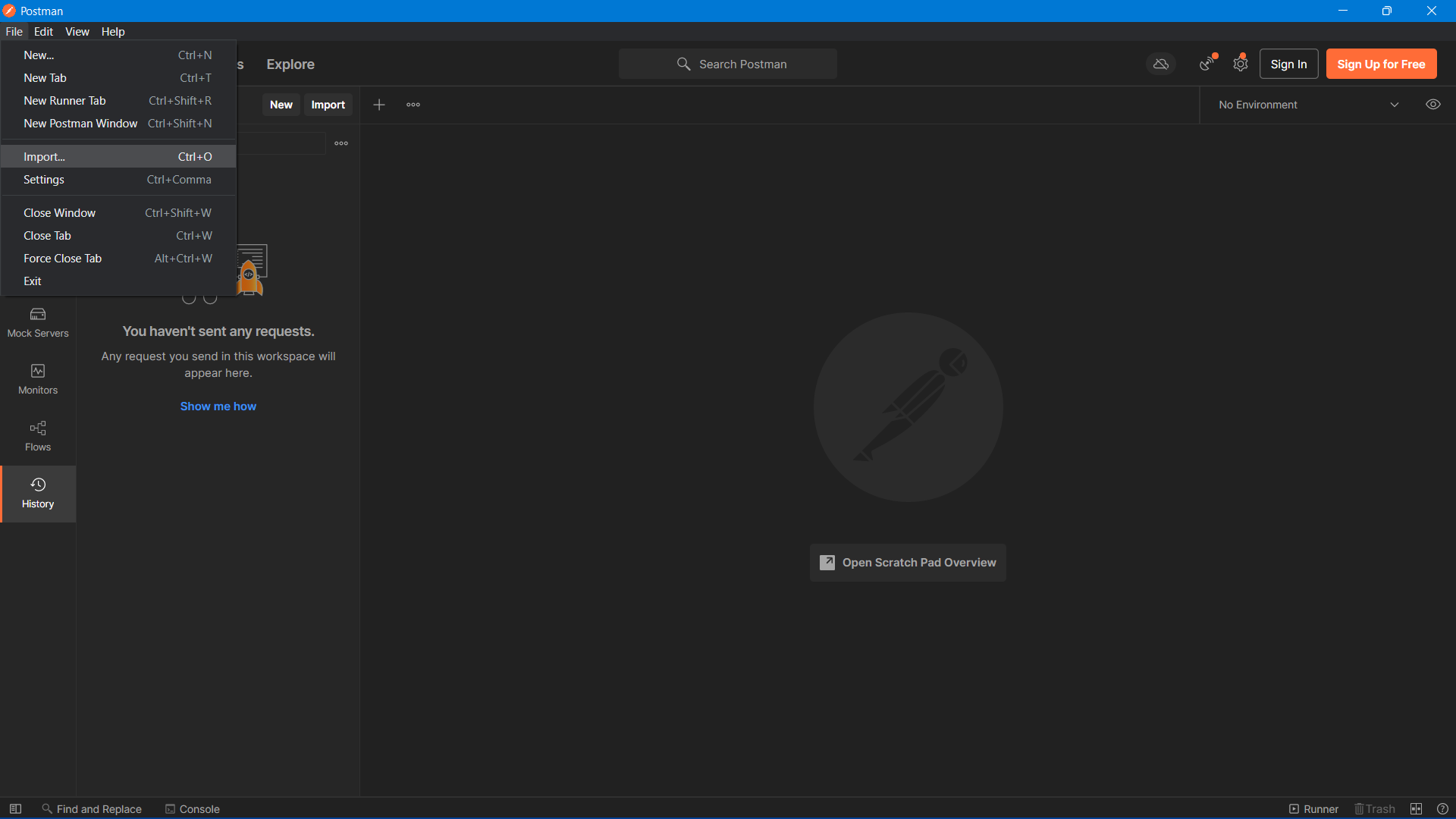
>go run main.go

If everything works fine then cmd will look like below picture, code ran successfully.

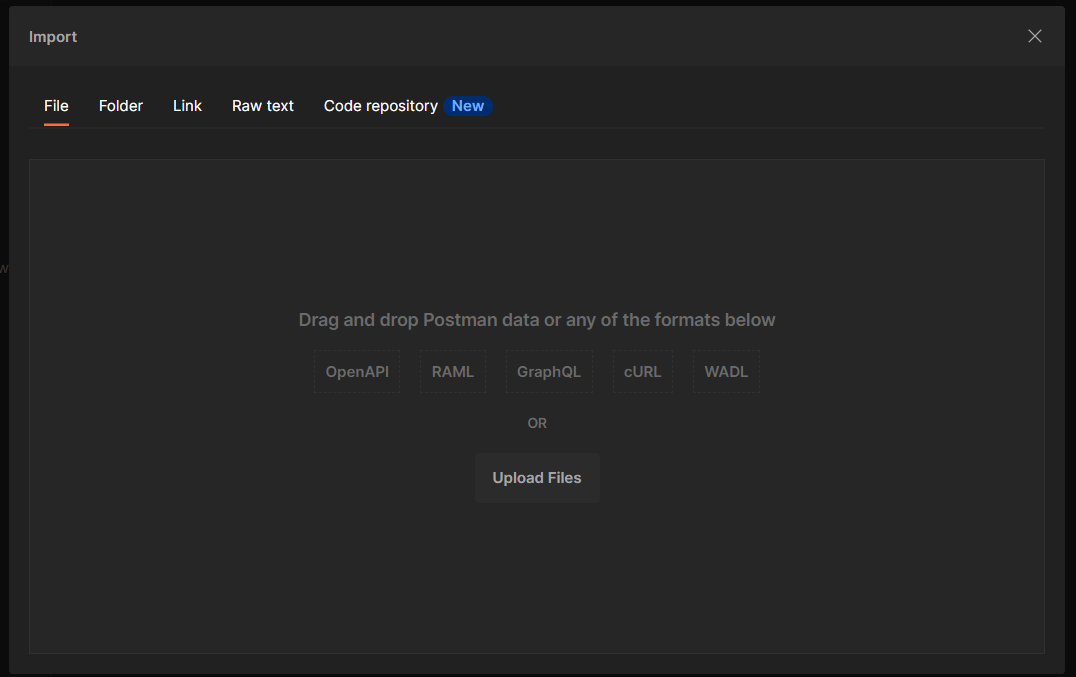


**Testing Functionality**

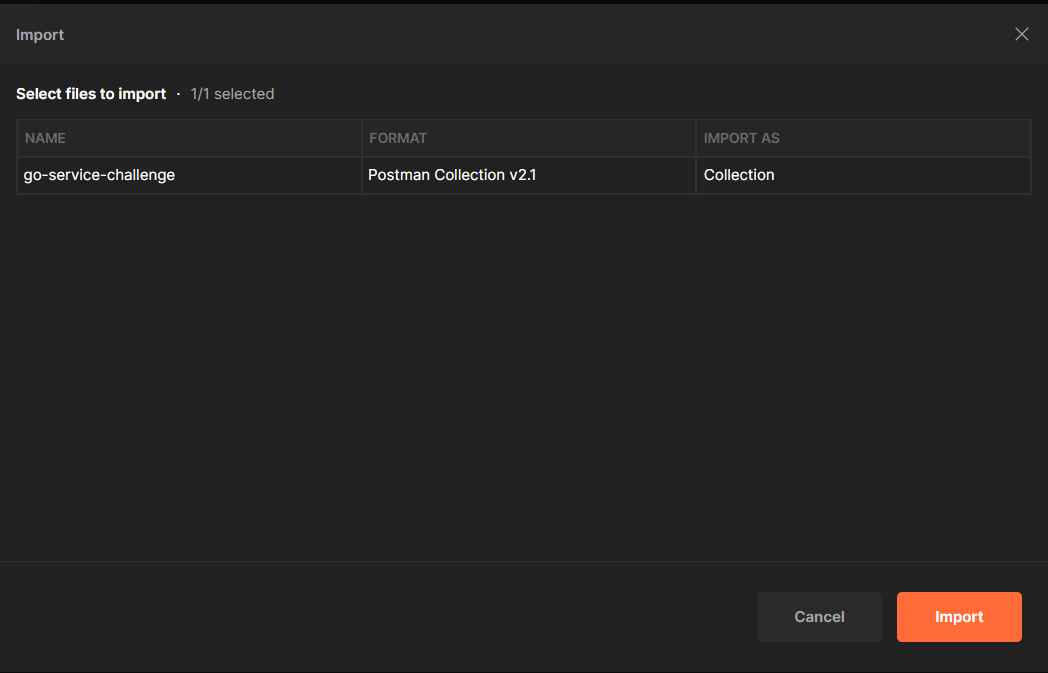
1. Now open postman, On top left click File > Import



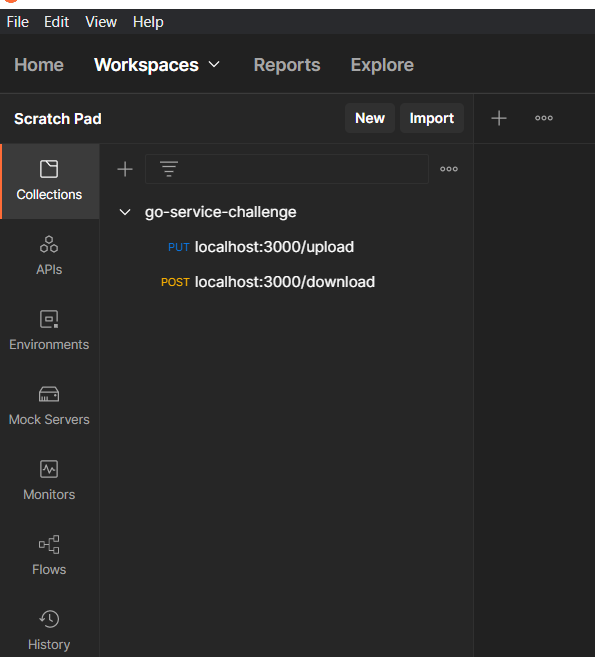
1. Click on upload Files and browse to the go-services-challenge folder and select file go-service-challenge.postman\_collection.json



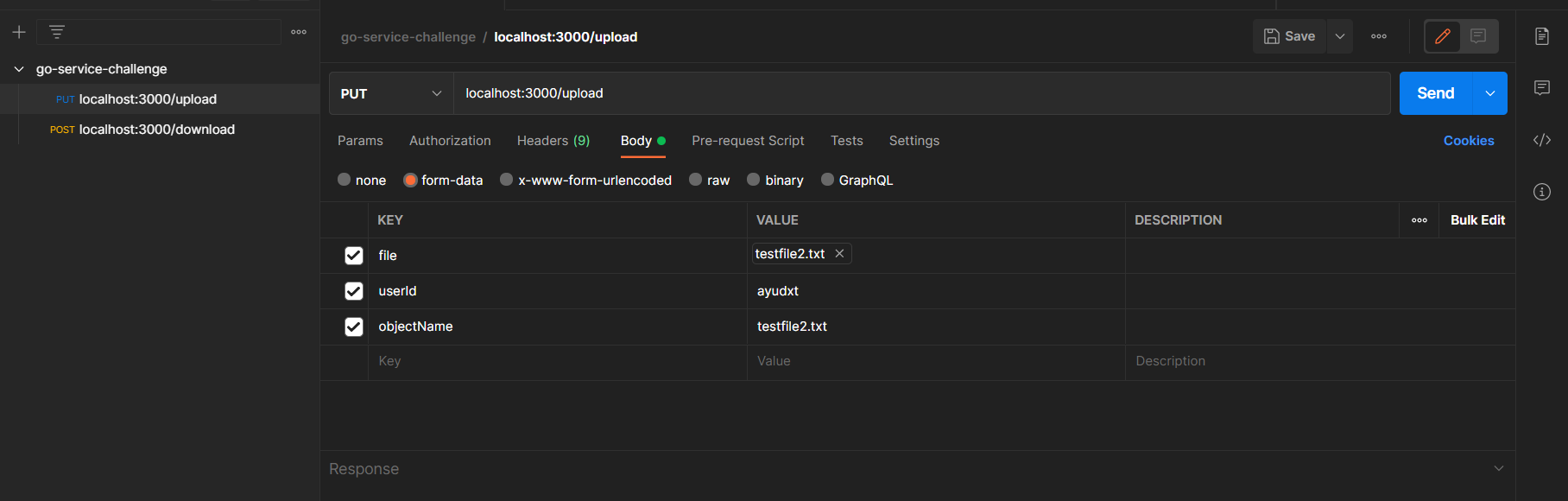
1. Click Import Button



1. Now 2 end points will be seen



1. Click on localhost:3000/upload and then click on Body



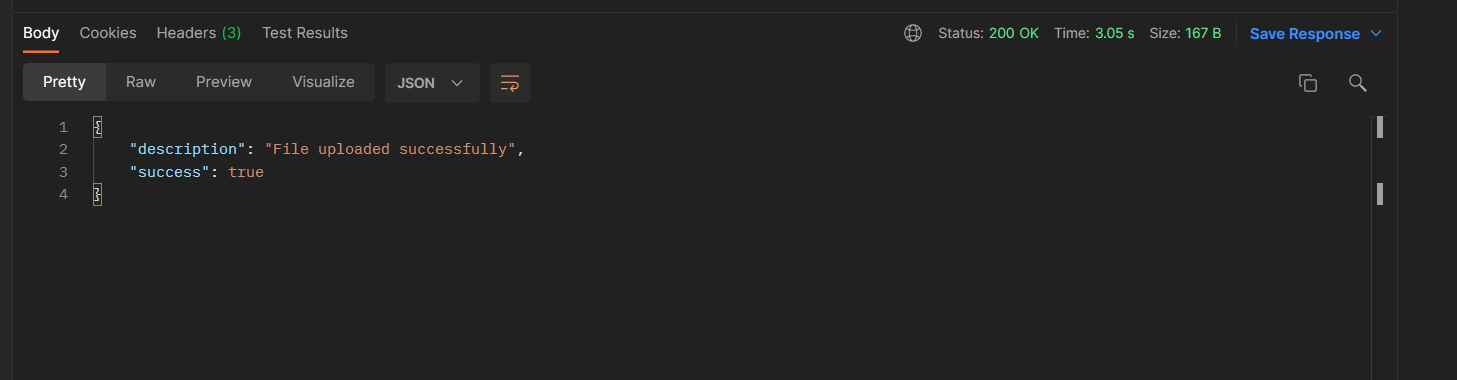
1. Fill out the Fields

file – click “x” beside the testfile2.txt and add any file from your PC

userId – give any userId (Will be reflected as bucket name in minio)

ObjectName – give the exact file name which you are going to upload

1. After that hit blue Send Button, You will see the below response after a successful upload



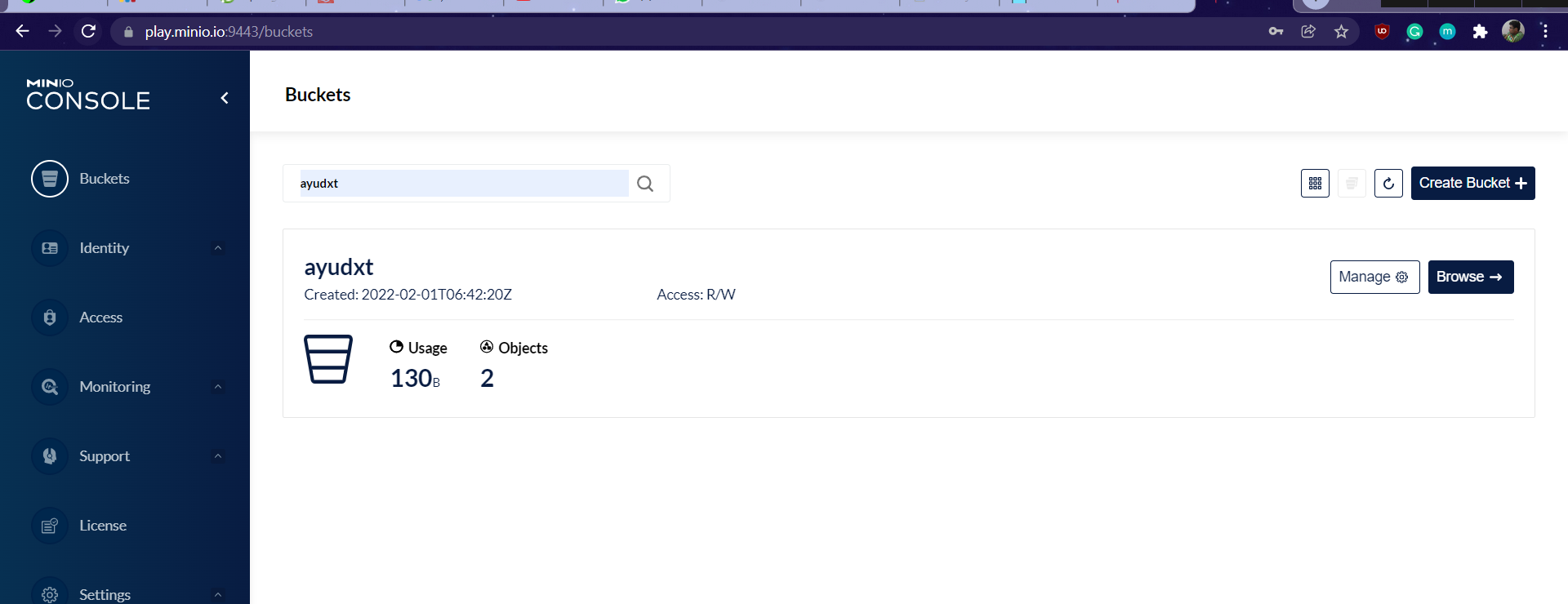
1. Browse to [https://play.minio.io:9443/login](about:blank)

Put username: Q3AM3UQ867SPQQA43P2F

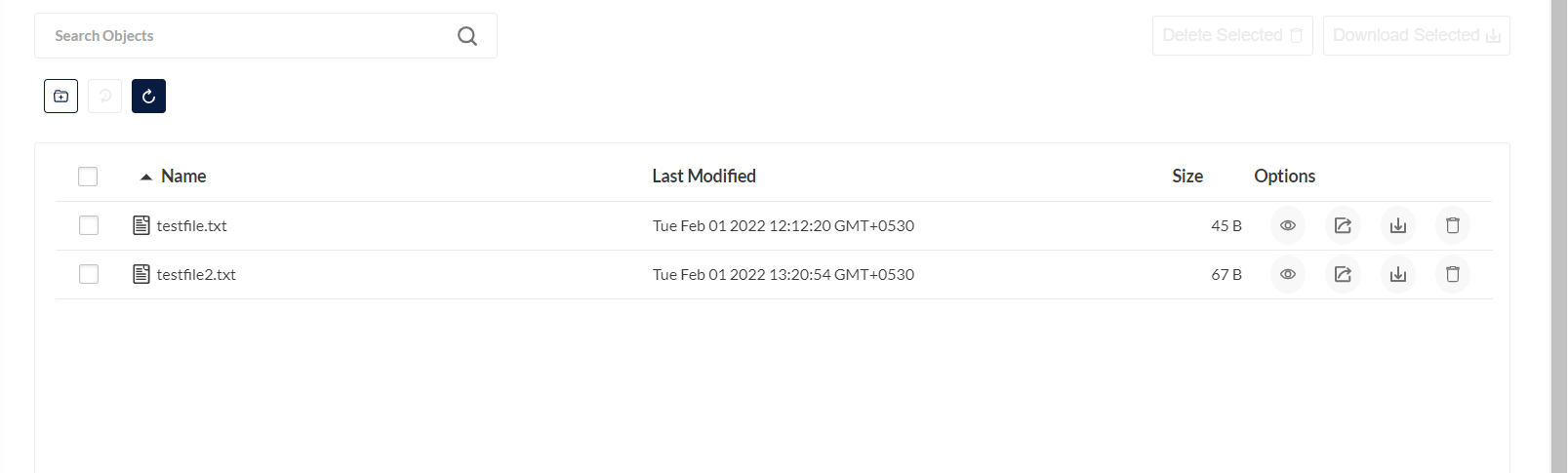
And password: zuf+tfteSlswRu7BJ86wekitnifILbZam1KYY3TG

Click login

1. Then search the userId(Bucket name) and click on browse



File will be shown here testfile2.txt

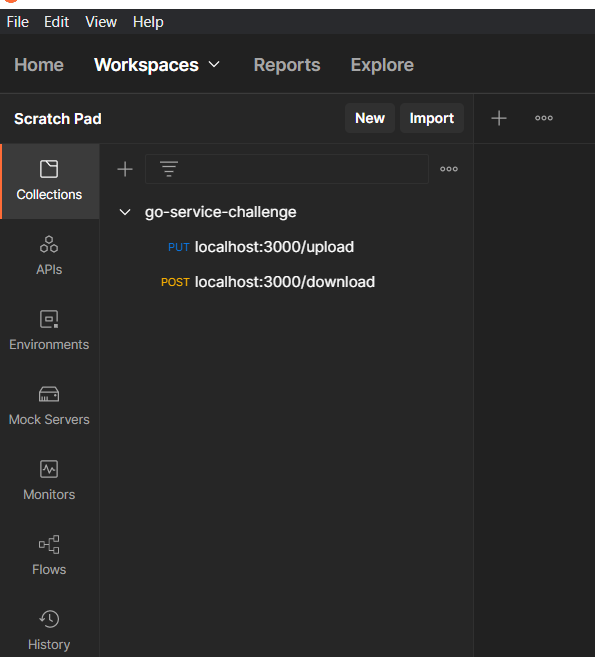


1. Click the download button and download the file directly from here and you will find an encrypted file.

**Encryption used AES.**

**Part 2 : Download the file**

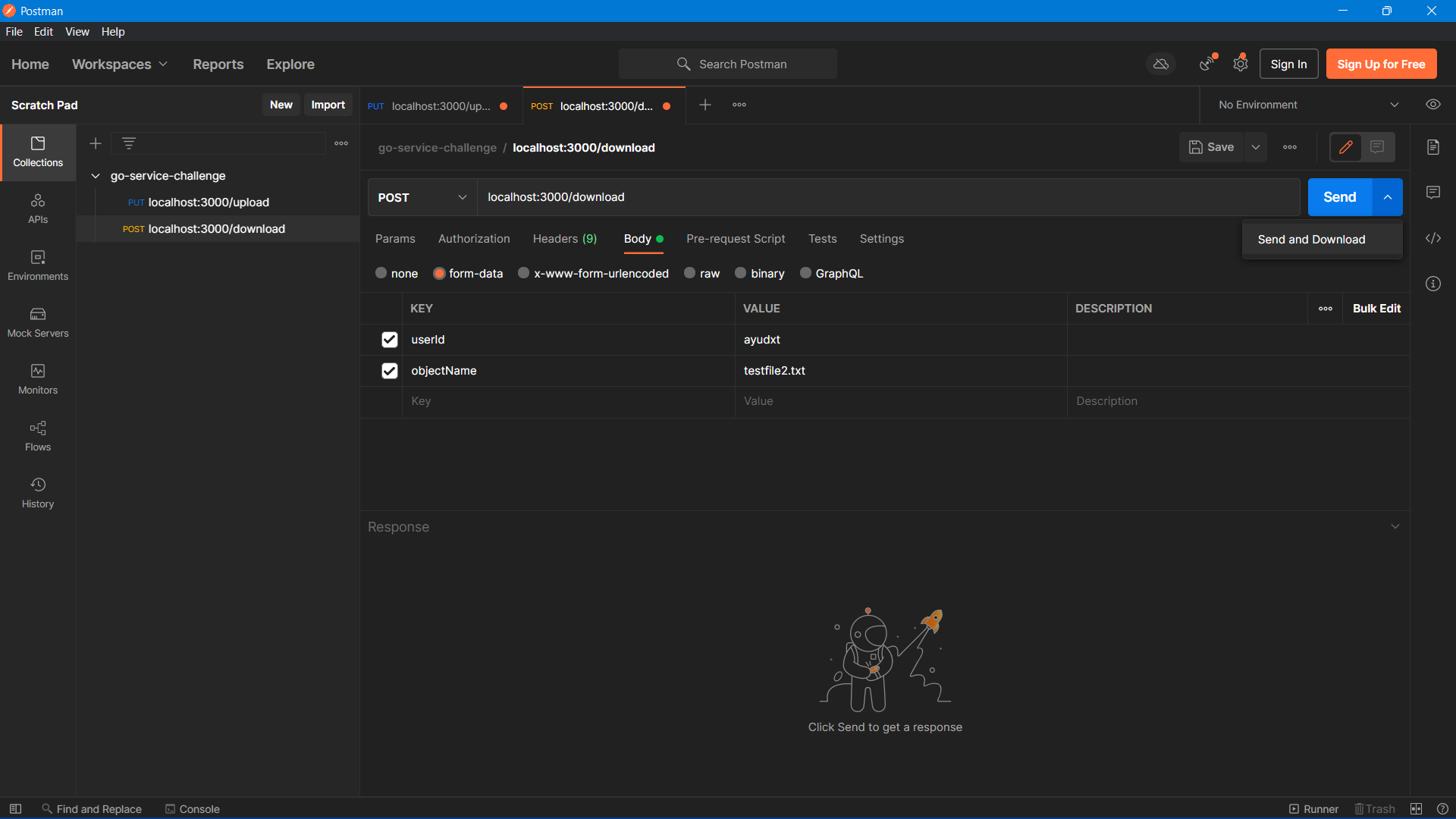
1. Blowse to postman click localhost:3000/download



1. Click on Body and fill out the values of userId and ObjectName

userId as “ayudxt” and objectName as “testfile2.txt”

1. And click on drop arrow of blue send button and click “send and download” Button like shown in picture



1. Prompt will appear to save the file

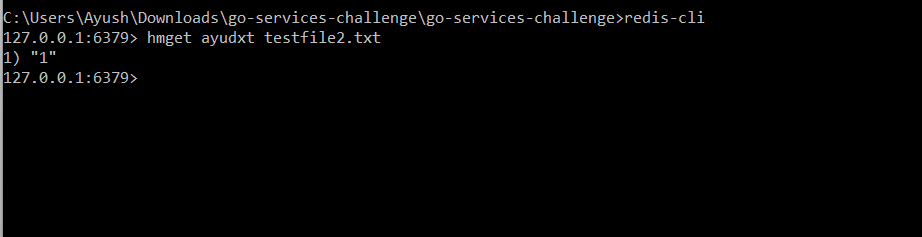
Save the file and check.

**Check the download count in redis**

1. Go to redis-cli
2. Run command > hmget <userId> <filename/objectname>

Like in above example the command will become

>hmget ayudxt testfile2.txt



Here count is 1 as the file is downloaded only once.