Padlet (Evaluación continua) - Semana 7 Taller 1


```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000

Last login: Mon May  8 20:14:23 2023 from 204.199.168.25
:~ $ docker run -d --rm --name mongo_c -p 27017:27017 -v mongo_data:/data/db mongo:latest
Unable to find image 'mongo:latest' locally
latest: Pulling from library/mongo
1bc677758ad7: Pull complete
7eb83bb7be98: Pull complete
e95121721c4c: Pull complete
799041b403ca: Pull complete
1828e70ef29a: Pull complete
8e3781beae9e: Pull complete
5d5753162333: Pull complete
44dd404b40f4: Pull complete
44599c9d5d1b: Pull complete
Digest: sha256:928347070dc089a596f869a22a4204c0feace3eb03470a6a2de6814f11fb7309
Status: Downloaded newer image for mongo:latest
8fcdafa9b1057e9d037785b9a467674f6d1488adc94de7d7cc2a1dc85154e5e5
:~ $ docker ps
CONTAINER ID    IMAGE           COMMAND               CREATED        STATUS         PORTS
                                NAMES
8fcdafa9b105    mongo:latest    "docker-entrypoint.s…"  4 seconds ago   Up 2 seconds   0.0.0.0:27017->270
17/tcp, :::27017->27017/tcp    mongo_c
:~ $ docker stop 8fcdafa9b105
8fcdafa9b105
:~ $ docker run -d --rm --name mongo_c -p 27017:27017 -v mongo_data:/data/db mongo:latest
e0e829f212270ef6e3bd67841fd65e751c6dc60caee3d459fd489bbf2b75e4e4
:~ $ docker exec -it mongo_c bash
root@e0e829f21227:/# mongosh
Current Mongosh Log ID: 645c3cac669dd6b2b00a7fca
Connecting to:          mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&a
ppName=mongosh+1.8.2
Using MongoDB:          6.0.5
Using Mongosh:          1.8.2

For mongosh info see: https://docs.mongodb.com/mongodb-shell/


To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https:
//www.mongodb.com/legal/privacy-policy).
You can opt-out by running the disableTelemetry() command.

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   The server generated these startup warnings when booting
   2023-05-11T00:52:42.481+00:00: Using the XFS filesystem is strongly recommended with the WiredTiger s
torage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem
   2023-05-11T00:52:43.699+00:00: Access control is not enabled for the database. Read and write access
to data and configuration is unrestricted
   2023-05-11T00:52:43.699+00:00: vm.max_map_count is too low
```

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000    —    □    ×
------
   Enable MongoDB's free cloud-based monitoring service, which will then receive and display
   metrics about your deployment (disk utilization, CPU, operation statistics, etc).

   The monitoring data will be available on a MongoDB website with a unique URL accessible to you
   and anyone you share the URL with. MongoDB may use this information to make product
   improvements and to suggest MongoDB products and deployment options to you.

   To enable free monitoring, run the following command: db.enableFreeMonitoring()
   To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
------

test> use food
switched to db food
food> db.createCollection("fruits")
{ ok: 1 }
food> db.fruits.insertMany([ {name: "apple", origin: "usa", price: 5},{name: "orange", origin: "italy",
price: 3}, {name: "mango",origin: "malaysia", price: 3} ])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("645c3cdc669dd6b2b00a7fcb"),
    '1': ObjectId("645c3cdc669dd6b2b00a7fcc"),
    '2': ObjectId("645c3cdc669dd6b2b00a7fcd")
  }
}
food> db.fruits.find().pretty()
[
  {
    _id: ObjectId("645c3cdc669dd6b2b00a7fcb"),
    name: 'apple',
    origin: 'usa',
    price: 5
  },
  {
    _id: ObjectId("645c3cdc669dd6b2b00a7fcc"),
    name: 'orange',
    origin: 'italy',
    price: 3
  },
  {
    _id: ObjectId("645c3cdc669dd6b2b00a7fcd"),
    name: 'mango',
    origin: 'malaysia',
    price: 3
  }
]
food>
```

```
See 'snap info <snapname>' for additional versions.

:~ $ pwd
/home/ubuntu
:~ $ mkdir api-fruits
:~ $ cd api-fruits
:~/api-fruits $ ls -l
total 16
-rw-rw-r-- 1 ubuntu ubuntu  136 Sep 26  2022 Dockerfile
-rw-rw-r-- 1 ubuntu ubuntu 4101 Sep 26  2022 app.py
-rw-rw-r-- 1 ubuntu ubuntu  275 Sep 26  2022 mongodb-comandos.txt
:~/api-fruits $ cat app.py
from flask import Flask, request, json, Response
from pymongo import MongoClient
import logging as log

app = Flask(__name__)

class MongoAPI:
    def __init__(self, data):
        log.basicConfig(level=log.DEBUG, format='%(asctime)s %(levelname)s:\n%(message)s\n')
        self.client = MongoClient("mongodb://172.31.92.214:27017") # IP privada de MV Base de Datos
        database = data['database']
        collection = data['collection']
        cursor = self.client[database]
        self.collection = cursor[collection]
        self.data = data


:~/api-fruits $ docker build -t api-fruits .
[+] Building 7.9s (10/10) FINISHED
 => [internal] load build definition from Dockerfile
 => => transferring dockerfile: 175B
 => [internal] load .dockerignore
 => => transferring context: 2B
 => [internal] load metadata for docker.io/library/python:3-slim
 => CACHED [1/5] FROM docker.io/library/python:3-slim@sha256:551c9529e77896518ac5693d7e98ee5e12051d625de450ac2a68da1
 => [internal] load build context
 => => transferring context: 4.64kB
 => [2/5] WORKDIR /programas/api-fruits
 => [3/5] RUN pip3 install flask
 => [4/5] RUN pip3 install pymongo
 => [5/5] COPY . .
 => exporting to image
 => => exporting layers
 => => writing image sha256:b0424514b3ca2a1ea04674cfcb96a8cbadd9595c3b76eee910e85ba38b30078d
 => => naming to docker.io/library/api-fruits
:~/api-fruits $ clear
:~/api-fruits $ _
```

```
OpenSSH SSH client                                              —  □  ✕

:~/api-fruits $
:~/api-fruits $ docker login -u luisfmendezl
Password:
:~/api-fruits $
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
:~/api-fruits $ docker tag api-fruits luisfmendezl/api-fruits
:~/api-fruits $ docker images
REPOSITORY                TAG        IMAGE ID       CREATED         SIZE
api-fruits                latest     b0424514b3ca   3 minutes ago   150MB
luisfmendezl/api-fruits   latest     b0424514b3ca   3 minutes ago   150MB
api-users                 latest     c626e380aad6   3 days ago      147MB
luisfmendezl/api-users    latest     c626e380aad6   3 days ago      147MB
compose_webplantilla      latest     3e97aa581347   3 weeks ago     149MB
compose_websimple         latest     d4d14eaf6d9c   3 weeks ago     145MB
webplantilla              latest     67c0d1a7dfc3   3 weeks ago     149MB
luisfmendezl/webplantilla latest     67c0d1a7dfc3   3 weeks ago     149MB
api-students              latest     f57b12226b80   3 weeks ago     144MB
compose_api-students      latest     f57b12226b80   3 weeks ago     144MB
luisfmendezl/api-students latest     f57b12226b80   3 weeks ago     144MB
websimple                 latest     a0e0261e1f77   3 weeks ago     145MB
luisfmendezl/websimple    latest     a0e0261e1f77   3 weeks ago     145MB
:~/api-fruits $ docker push luisfmendezl/api-fruits
Using default tag: latest
The push refers to repository [docker.io/luisfmendezl/api-fruits]
a447e898e1f9: Pushed
24ac9bfa896c: Pushed
c2b670413b97: Pushed
e63ce867c487: Pushed
cb53c9da2321: Mounted from luisfmendezl/api-users
c158cb38bbfe: Mounted from luisfmendezl/api-users
9ba5352504ae: Mounted from luisfmendezl/api-users
419599cb5288: Mounted from luisfmendezl/api-users
8553b91047da: Mounted from luisfmendezl/api-users
latest: digest: sha256:56f83dfa6b58dae84aac82208cfb4c41c4e261c310a39fe8aba9fbf45ee83b20 size: 2207
:~/api-fruits $ docker logout
Removing login credentials for https://index.docker.io/v1/
:~/api-fruits $
```

8:14 PM
5/10/2023
ENG
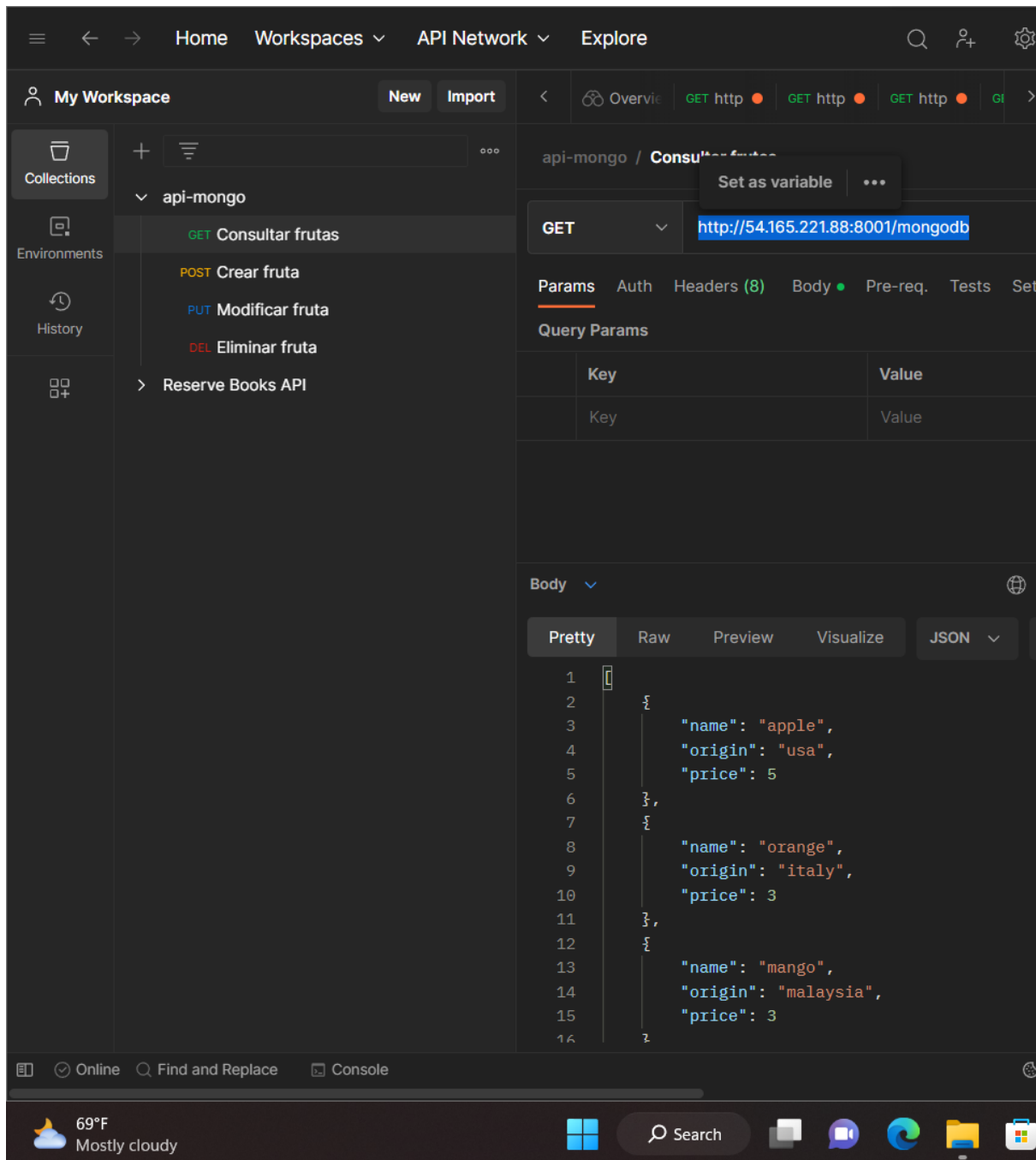
With load balancer

- Add port 8001 to security group GS-Prod
- Create target group TG-Prod-8001
- Add listener