Pull Docker Image of Redis

```
(base) cu-biot-3-10:~ admin$ docker pull redis
Using default tag: latest
latest: Pulling from library/redis
1fe172e4850f: Pull complete
6fbcd347bf99: Pull complete
993114c67627: Pull complete
90ee703e9ece: Pull complete
80d8b53e83a7: Pull complete
a09780893e15: Pull complete
Digest: sha256:96c3e4dfe047ba9225a7d36fc92b5a5cff9e047daf41a1e0122e2bd8174c839e
Status: Downloaded newer image for redis:latest
docker.io/library/redis:latest
```

I will use the same network "database-network" that I already created for my Cassandra assignment.

Start Redis Server Instance and Connect to Server From CLI Container:

```
(base) cu-biot-3-10:~ admin$ docker run --name redis-server --network database-network -d redis:latest
741ddb7e90fa6776cf77c8b07b609414005c277be5a57b3e3911de7dd5aad221
(base) cu-biot-3-10:~ admin$ docker run -it --network database-network --rm redis redis-cli -h redis-server
```

Get and Set:

```
redis-server:6379> SET "Batman" "Joker"
OK
redis-server:6379> GET "Batman"
"Joker"
redis-server:6379> exit
```

FLASK REST SERVER:

BUILD FLASK REST SERVER DOCKER IMAGE:

```
(base) cu-biot-3-10:~ admin$ cd Desktop
(base) cu-biot-3-10:Desktop admin$ cd FlaskRest-Server
(base) cu-biot-3-10:FlaskRest-Server admin$ pwd
/Users/admin/Desktop/FlaskRest-Server
```

```
(base) cu-biot-3-10:FlaskRest-Server admin$ docker build . -f DockerFile -t rest_server:latest
[+] Building 11.7s (11/11) FINISHED
     [internal] load build definition from DockerFile
=> transferring dockerfile: 797B
[internal] load .dockerignore
```

CREATE AN INSTANCE FROM THE IMAGE CREATED:

[(base) cu-biot-3-10:FlaskRest-Server admin\$ docker run --network database-network -p 6999:6999 -d rest_server:latest 8361da3cf6f536e24167b04ad0306c03b8c060cb3c2a1a7177aaa1d591936f83

CHECK IF THE REST SERVER IS UP AND RUNNING:

(base) cu-biot-3-10:FlaskRest-Server admin\$ docker ps -a CONTAINER ID IMAGE COMMAND 8361da3cf6f5 rest_server:latest "python3 Rest-R PORTS 0.0.0.0:6999->6999/tcp, :::6999->6999/tcp NAMES mystifying_blackwell COMMAND CREATED STATUS
"python3 Rest-Redis-..." 9 seconds ago Up 5 seconds (base) cu-biot-3-10:FlaskRest-Server admin\$ docker logs 8361da3cf6f5 * Serving Flask app 'Rest-Redis-Server' (lazy loading) * Environment: production WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead. * Debug mode: off

- * Running on all addresses (0.0.0.0) WARNING: This is a development server. Do not use it in a production deployment.
- * Running on http://127.0.0.1:6999 * Running on http://172.27.0.4:6999 (Press CTRL+C to quit)

```
[(base) cu_biot_3_10:FlaskRest_Server admin$ curl http://localhost:6999/redis/get/Batman {"key":"Batman","value":"Joker"} (base) cu_biot_3_10:FlaskRest_Server admin$ curl http://localhost:6999/redis/get/Batman {"key":"Batman","value":"Joker"} (base) cu_biot_3_10:FlaskRest_Server admin$ curl -i -H "Content_Type: application/json" -X POST -d '{"key":"Batman","value":"Joker"}' curl: -rive ['vorl --help' or 'curl --manual' for more information (base) cu_biot_3_10:FlaskRest_Server admin$ curl -i -H "Content_Type: application/json" -X POST -d '{"key":"Batman","value":"Joker"}' http://localhost:6999/redis/set HTTP/1.1 201 CREATED Server: Werkzeug/2.1.2 Python/3.8.13
Date: Mon, 02 May 2022 01:00:45 GMT Content_Type: application/json Content_Length: 19 Connection: close
   {"data":"Success"}
```