CLOUD COMPUTING LAB – UE20CS351

Experiment 2 - Docker on

Linux/Windows/Mac OS

SRN: PES2UG20CS045

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1a.jpg: Screenshot of running docker hello-world.

```
C:\Users\anany\PES2UG20CS045>docker run hello-world

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
 $ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
 https://hub.docker.com/

For more examples and ideas, visit:
 https://docs.docker.com/get-started/
```

2a.jpg: Screenshot of C Program successfully run inside the container.

```
C:\Users\anany\PES2UG20CS045\task2>docker run task2
Running this inside a container !
My SRN is PES2UG20CS045
```

2b.jpg: Screenshot of the image pushed to Dockerhub.

ananya045/task2:1.0
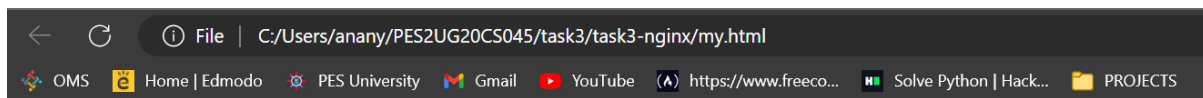
DIGEST: sha256:cab478d60074483308b42eb281c5ed47959b249742452a656f90d3d8964d1ba1

OS/ARCH	COMPRESSED SIZE ⓘ	LAST PUSHED	TYPE
linux/amd64	94.32 MB	4 minutes ago by ananya045	Image

3a.jpg: Screenshot of docker container running nginx

```
C:\Users\anany\PES2UG20CS045\task3\task3-nginx>docker run -p 80:80 task3
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up2023/03/05 13:02:30 [notice] 1#1: using the "epoll" event method
2023/03/05 13:02:30 [notice] 1#1: nginx/1.23.3
2023/03/05 13:02:30 [notice] 1#1: built by gcc 10.2.1 20210110 (Debian 10.2.1-6)
2023/03/05 13:02:30 [notice] 1#1: OS: Linux 5.10.16.3-microsoft-standard-WSL2
2023/03/05 13:02:30 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2023/03/05 13:02:30 [notice] 1#1: start worker processes
2023/03/05 13:02:30 [notice] 1#1: start worker process 29
2023/03/05 13:02:30 [notice] 1#1: start worker process 30
2023/03/05 13:02:30 [notice] 1#1: start worker process 31
2023/03/05 13:02:30 [notice] 1#1: start worker process 32
2023/03/05 13:02:30 [notice] 1#1: start worker process 33
2023/03/05 13:02:30 [notice] 1#1: start worker process 34
2023/03/05 13:02:30 [notice] 1#1: start worker process 35
2023/03/05 13:02:30 [notice] 1#1: start worker process 36
2023/03/05 13:02:30 [notice] 1#1: start worker process 37
2023/03/05 13:02:30 [notice] 1#1: start worker process 38
2023/03/05 13:02:30 [notice] 1#1: start worker process 39
2023/03/05 13:02:30 [notice] 1#1: start worker process 40
```

3b.jpg: Sample.html showing the web page on the browser.

File | C:/Users/anany/PES2UG20CS045/task3/task3-nginx/my.html

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MY SRN IS PES2UG20CS045

I am running a nginx container!

3c.jpg: Screenshot of python application successfully writing and reading from the

MongoDB database

```
C:\Users\anany\PES2UG20CS045\task3\task3-pymongo>docker run task3
Inserted into the MongoDB database!
Fecthed from MongoDB:  {'_id': ObjectId('6404990342904db850e472b3'), 'Name:': 'ANANYA', 'SRN': 'PES2UG20CS045'}
```

3d.jpg: Screenshot showing mongodb being run within the network

```
C:\Users\anany\PES2UG20CS045\task3\task3-pymongo>docker ps -a
CONTAINER ID   IMAGE                                   COMMAND                  CREATED          STATUS                      PORTS
                           NAMES
b0f270cd4613   mongo:latest                            "docker-entrypoint.s…"   17 seconds ago   Up 14 seconds               0.0.0.
0:27017->27017/tcp   mongodb
74b209909989   task3                                   "python sample.py"       2 minutes ago    Exited (0) 2 minutes ago
                           vibrant_poincare
14c91110b30d   mongo                                   "docker-entrypoint.s…"   23 minutes ago   Exited (0) About a minute ago
                           funny_allen
c2c8db1ee71f   554deab6fdf9                            "/docker-entrypoint.…"   29 minutes ago   Up 28 minutes               0.0.0.
0:80->80/tcp       musing_ardinghelli
e6c0e33c749f   task2                                   "./a.out"                2 hours ago      Exited (0) 2 hours ago
                           charming_torvalds
ce4b5128cc95   2b969449b3d9                            "./a.out"                2 hours ago      Exited (0) 2 hours ago
                           quizzical_davinci
cb738aa020d8   2b969449b3d9                            "./a.out"                2 hours ago      Exited (0) 2 hours ago
                           festive_brattain
416181ee200d   hello-world                             "/hello"                 3 hours ago      Exited (0) 3 hours ago
                           epic_gates
f87bb3685380   hello-world                             "/hello"                 5 hours ago      Exited (0) 5 hours ago
                           agitated_meninsky
863bbda8c2d2   gcr.io/k8s-minikube/kicbase:v0.0.37     "/usr/local/bin/entr…"   7 days ago       Exited (130) 7 days ago
                           minikube
6c2c5a395857   hello-world                             "/hello"                 7 days ago       Exited (0) 7 days ago
                           distracted_merkle
f76b737201c0   docker/getting-started                  "/docker-entrypoint.…"   7 days ago       Exited (255) 7 hours ago    0.0.0.
0:80->80/tcp       magical_visvesvaraya
```

3e.jpg: Screenshot showing python file being run within the network and successfullywriting and reading from MongoDB

```
C:\Users\anany\PES2UG20CS045\task3\task3-pymongo>docker build -t task3 .
[+] Building 0.3s (9/9) FINISHED
 => [internal] load build definition from Dockerfile
 => => transferring dockerfile: 31B
 => [internal] load .dockerignore
 => => transferring context: 2B
 => [internal] load metadata for docker.io/library/python:latest
 => [1/4] FROM docker.io/library/python
 => [internal] load build context
 => => transferring context: 442B
 => CACHED [2/4] RUN apt-get update
 => CACHED [3/4] RUN pip install pymongo
 => [4/4] COPY sample.py sample.py
 => exporting to image
 => => exporting layers
 => => writing image sha256:dbea25cf02b8cadde4446844437f0a21359490cfb436c371aefb5978bad74b96
 => => naming to docker.io/library/task3

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

C:\Users\anany\PES2UG20CS045\task3\task3-pymongo>docker run --network=my-bridge-network task3
Inserted into the MongoDB database!
Fecthed from MongoDB:  {'_id': ObjectId('64049a1d0afbd2524c9a5549'), 'Name:': 'ANANYA', 'SRN': 'PES2UG20CS045'}
```

4a.jpg: Screenshot of python-mongodb application running as a docker-compose application


```
C:\Users\anany\PES2UG20CS045\task4>docker-compose up
[+] Building 0.5s (9/9) FINISHED
 => [internal] load build definition from Dockerfile                              0.1s
 => => transferring dockerfile: 150B                                              0.0s
 => [internal] load .dockerignore                                                 0.1s
 => => transferring context: 2B                                                   0.0s
 => [internal] load metadata for docker.io/library/python:latest                  0.0s
 => [1/4] FROM docker.io/library/python                                           0.0s
 => [internal] load build context                                                 0.0s
 => => transferring context: 442B                                                 0.0s
 => CACHED [2/4] RUN apt-get update                                               0.0s
 => CACHED [3/4] RUN pip install pymongo                                          0.0s
 => [4/4] COPY sample.py sample.py                                                0.1s
 => exporting to image                                                            0.1s
 => => exporting layers                                                           0.1s
 => => writing image sha256:15829bf6347bce49ec76859950f34f7f74051a9df0772d5f034a39bd9ef2ba25  0.0s
 => => naming to docker.io/library/task4-pycode                                   0.0s
[+] Running 3/3
 - Network task4_default       Created                                            0.9s
 - Container task4-mongodb-1   Created                                            0.2s
 - Container task4-pycode-1    Created                                            0.2s
Attaching to task4-mongodb-1, task4-pycode-1
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:55.412+00:00"},"s":"I",  "c":"CONTROL",  "id":23285,   "ctx":"main","msg":"Automatically dis
bling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'"}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:55.414+00:00"},"s":"I",  "c":"NETWORK",  "id":4915701,"ctx":"main","msg":"Initialized wire
pecification","attr":{"spec":{"incomingExternalClient":{"minWireVersion":0,"maxWireVersion":17},"incomingInternalClient":{"minWireVersion":0,"m
xWireVersion":17},"outgoing":{"minWireVersion":6,"maxWireVersion":17},"isInternalClient":true}}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:55.418+00:00"},"s":"I",  "c":"NETWORK",  "id":4648601,"ctx":"main","msg":"Implicit TCP Fast
pen unavailable. If TCP FastOpen is required, set tcpFastOpenServer, tcpFastOpenClient, and tcpFastOpenQueueSize."}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:55.450+00:00"},"s":"I",  "c":"REPL",    "id":5123008, "ctx":"main","msg":"Successfully regi
tered PrimaryOnlyService","attr":{"service":"TenantMigrationDonorService","namespace":"config.tenantMigrationDonors"}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:55.451+00:00"},"s":"I",  "c":"REPL",    "id":5123008, "ctx":"main","msg":"Successfully regi
tered PrimaryOnlyService","attr":{"service":"TenantMigrationRecipientService","namespace":"config.tenantMigrationRecipients"}}
```

```
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:56.995+00:00"},"s":"I",  "c":"NETWORK",  "id":22943,    "ctx":"listener","msg":"Connection acc
epted","attr":{"remote":"172.19.0.3:50374","uuid":"b359e08d-0c18-4ca7-b1f9-f53afad14958","connectionId":1,"connectionCount":1}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:56.999+00:00"},"s":"I",  "c":"NETWORK",  "id":51800,    "ctx":"conn1","msg":"client metadata",
"attr":{"remote":"172.19.0.3:50374","client":"conn1","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","a
rchitecture":"x86_64","version":"5.10.16.3-microsoft-standard-WSL2"},"platform":"CPython 3.11.2.final.0"}}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:57.005+00:00"},"s":"I",  "c":"NETWORK",  "id":22943,    "ctx":"listener","msg":"Connection acc
epted","attr":{"remote":"172.19.0.3:50376","uuid":"2fbc2c6f-c147-4100-9950-b0f0950a7e74","connectionId":2,"connectionCount":2}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:57.005+00:00"},"s":"I",  "c":"NETWORK",  "id":51800,    "ctx":"conn2","msg":"client metadata",
"attr":{"remote":"172.19.0.3:50376","client":"conn2","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","a
rchitecture":"x86_64","version":"5.10.16.3-microsoft-standard-WSL2"},"platform":"CPython 3.11.2.final.0"}}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:57.006+00:00"},"s":"I",  "c":"NETWORK",  "id":22943,    "ctx":"listener","msg":"Connection acc
epted","attr":{"remote":"172.19.0.3:50378","uuid":"72fa3df4-5bef-4c57-bd0f-ab9a75627375","connectionId":3,"connectionCount":3}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:57.008+00:00"},"s":"I",  "c":"NETWORK",  "id":51800,    "ctx":"conn3","msg":"client metadata",
"attr":{"remote":"172.19.0.3:50378","client":"conn3","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","a
rchitecture":"x86_64","version":"5.10.16.3-microsoft-standard-WSL2"},"platform":"CPython 3.11.2.final.0"}}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:57.011+00:00"},"s":"I",  "c":"STORAGE",  "id":20320,    "ctx":"conn3","msg":"createCollection"
,"attr":{"namespace":"sample_db.sample_collection","uuidDisposition":"generated","uuid":{"uuid":{"$uuid":"164a4415-4469-4aa5-bfc4-59987c40fae7"}
},"options":{}}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:57.034+00:00"},"s":"I",  "c":"INDEX",    "id":20345,    "ctx":"conn3","msg":"Index build: done
 building","attr":{"buildUUID":null,"collectionUUID":{"uuid":{"$uuid":"164a4415-4469-4aa5-bfc4-59987c40fae7"}},"namespace":"sample_db.sample_col
lection","index":"_id_","ident":"index-8-5250518916001339384","collectionIdent":"collection-7-5250518916001339384","commitTimestamp":null}}
task4-pycode-1   | Inserted into the MongoDB database!
task4-pycode-1   | Fecthed from MongoDB:  {'_id': ObjectId('64049b34f9bfebf0385e7ed9'), 'Name:': 'ANANYA', 'SRN': 'PES2UG20CS045'}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:57.506+00:00"},"s":"I",  "c":"-",        "id":20883,    "ctx":"conn1","msg":"Interrupted opera
tion as its client disconnected","attr":{"opId":17}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:57.512+00:00"},"s":"I",  "c":"NETWORK",  "id":22944,    "ctx":"conn1","msg":"Connection ended"
,"attr":{"remote":"172.19.0.3:50374","uuid":"b359e08d-0c18-4ca7-b1f9-f53afad14958","connectionId":1,"connectionCount":2}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:57.520+00:00"},"s":"I",  "c":"NETWORK",  "id":22944,    "ctx":"conn3","msg":"Connection ended"
,"attr":{"remote":"172.19.0.3:50378","uuid":"72fa3df4-5bef-4c57-bd0f-ab9a75627375","connectionId":3,"connectionCount":1}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:37:57.520+00:00"},"s":"I",  "c":"NETWORK",  "id":22944,    "ctx":"conn2","msg":"Connection ended"
,"attr":{"remote":"172.19.0.3:50376","uuid":"2fbc2c6f-c147-4100-9950-b0f0950a7e74","connectionId":2,"connectionCount":0}}
task4-pycode-1 exited with code 0
```

4b.jpg: Screenshot of 3 python application writes and reads from MongoDB after scaling the python application.

```
C:\Users\anany\PES2UG20CS045\task4>docker-compose up --scale pycode=3
[+] Running 4/4
 - Container task4-mongodb-1   Created                                            0.0s
 - Container task4-pycode-3    Created                                            0.2s
 - Container task4-pycode-2    Created                                            0.2s
 - Container task4-pycode-1    Recreated                                          0.2s
Attaching to task4-mongodb-1, task4-pycode-1, task4-pycode-2, task4-pycode-3
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:40:08.700+00:00"},"s":"I",  "c":"CONTROL",  "id":23285,   "ctx":"-","msg":"Automatically disabli
ng TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'"}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:40:08.706+00:00"},"s":"I",  "c":"NETWORK",  "id":4915701,"ctx":"-","msg":"Initialized wire spec
ification","attr":{"spec":{"incomingExternalClient":{"minWireVersion":0,"maxWireVersion":17},"incomingInternalClient":{"minWireVersion":0,"maxWi
reVersion":17},"outgoing":{"minWireVersion":6,"maxWireVersion":17},"isInternalClient":true}}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:40:08.741+00:00"},"s":"I",  "c":"NETWORK",  "id":4648601,"ctx":"main","msg":"Implicit TCP FastO
pen unavailable. If TCP FastOpen is required, set tcpFastOpenServer, tcpFastOpenClient, and tcpFastOpenQueueSize."}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:40:08.778+00:00"},"s":"I",  "c":"REPL",     "id":5123008, "ctx":"main","msg":"Successfully regis
tered PrimaryOnlyService","attr":{"service":"TenantMigrationDonorService","namespace":"config.tenantMigrationDonors"}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:40:08.779+00:00"},"s":"I",  "c":"REPL",     "id":5123008, "ctx":"main","msg":"Successfully regis
tered PrimaryOnlyService","attr":{"service":"TenantMigrationRecipientService","namespace":"config.tenantMigrationRecipients"}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:40:08.779+00:00"},"s":"I",  "c":"REPL",     "id":5123008, "ctx":"main","msg":"Successfully regis
tered PrimaryOnlyService","attr":{"service":"ShardSplitDonorService","namespace":"config.tenantSplitDonors"}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:40:08.780+00:00"},"s":"I",  "c":"CONTROL",  "id":5945603, "ctx":"main","msg":"Multi threading in
itialized"}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:40:08.782+00:00"},"s":"I",  "c":"CONTROL",  "id":4615611, "ctx":"initandlisten","msg":"MongoDB s
tarting","attr":{"pid":1,"port":27017,"dbPath":"/data/db","architecture":"64-bit","host":"06ea735e1336"}}
task4-mongodb-1  | {"t":{"$date":"2023-03-05T13:40:08.791+00:00"},"s":"I",  "c":"CONTROL",  "id":23403,   "ctx":"initandlisten","msg":"Build Inf
o","attr":{"buildInfo":{"version":"6.0.4","gitVersion":"44ff59461c1353638a71e710f385a566bcd2f547","openSSLVersion":"OpenSSL 3.0.2 15 Mar 2022","
modules":[],"allocator":"tcmalloc","environment":{"distmod":"ubuntu2204","distarch":"x86_64","target_arch":"x86_64"}}}}
```

task4-pycode-2 exited with code 0
task4-mongodb-1 | {"t":{"$date":"2023-03-05T13:40:13.397+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection acc epted","attr":{"remote":"172.19.0.5:36976","uuid":"29054f75-4a45-4605-bc6d-6335a3816118","connectionId":7,"connectionCount":1}}
task4-mongodb-1 | {"t":{"$date":"2023-03-05T13:40:13.397+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn7","msg":"client metadata", "attr":{"remote":"172.19.0.5:36976","client":"conn7","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","a rchitecture":"x86_64","version":"5.10.16.3-microsoft-standard-WSL2"},"platform":"CPython 3.11.2.final.0"}}}
task4-mongodb-1 | {"t":{"$date":"2023-03-05T13:40:13.400+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection acc epted","attr":{"remote":"172.19.0.5:36978","uuid":"00349cab-285b-4e76-b910-b5bdccdb3fb7","connectionId":8,"connectionCount":2}}
task4-mongodb-1 | {"t":{"$date":"2023-03-05T13:40:13.401+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection acc epted","attr":{"remote":"172.19.0.5:36980","uuid":"089da909-4960-47f5-becd-de0f67e2d6f1","connectionId":9,"connectionCount":3}}
task4-mongodb-1 | {"t":{"$date":"2023-03-05T13:40:13.401+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn8","msg":"client metadata", "attr":{"remote":"172.19.0.5:36978","client":"conn8","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","a rchitecture":"x86_64","version":"5.10.16.3-microsoft-standard-WSL2"},"platform":"CPython 3.11.2.final.0"}}}
task4-mongodb-1 | {"t":{"$date":"2023-03-05T13:40:13.401+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn9","msg":"client metadata", "attr":{"remote":"172.19.0.5:36980","client":"conn9","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","a rchitecture":"x86_64","version":"5.10.16.3-microsoft-standard-WSL2"},"platform":"CPython 3.11.2.final.0"}}}
task4-pycode-3 | Inserted into the MongoDB database!
task4-pycode-3 | Fecthed from MongoDB: {'_id': ObjectId('64049b34f9bfebf0385e7ed9'), 'Name:': 'ANANYA', 'SRN': 'PES2UG20CS045'}
task4-mongodb-1 | {"t":{"$date":"2023-03-05T13:40:13.901+00:00"},"s":"I", "c":"-", "id":20883, "ctx":"conn7","msg":"Interrupted opera tion as its client disconnected","attr":{"opId":57}}
task4-mongodb-1 | {"t":{"$date":"2023-03-05T13:40:13.902+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":"conn7","msg":"Connection ended" ,"attr":{"remote":"172.19.0.5:36976","uuid":"29054f75-4a45-4605-bc6d-6335a3816118","connectionId":7,"connectionCount":2}}
task4-mongodb-1 | {"t":{"$date":"2023-03-05T13:40:13.910+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":"conn9","msg":"Connection ended" ,"attr":{"remote":"172.19.0.5:36980","uuid":"089da909-4960-47f5-becd-de0f67e2d6f1","connectionId":9,"connectionCount":1}}
task4-mongodb-1 | {"t":{"$date":"2023-03-05T13:40:13.910+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":"conn8","msg":"Connection ended" ,"attr":{"remote":"172.19.0.5:36978","uuid":"00349cab-285b-4e76-b910-b5bdccdb3fb7","connectionId":8,"connectionCount":0}}
task4-pycode-3 exited with code 0