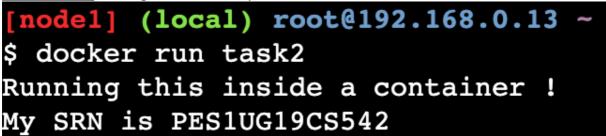
CLOUD COMPUTING LAB DOCKER

NAME: Trisha Jain SRN: PES1UG19CS542

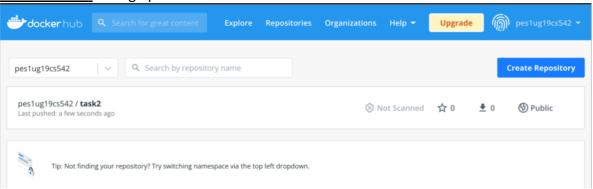
SECTION: I

Screenshot 1: Running docker hello-world

Screenshot 2a: C Program successfully run inside the container



Screenshot 2b : Image pushed to Docker hub



Screenshot 3a: Sample.html showing the web page on the browser



My SRN is PES1UG19CS542>

I am running a nginx container!

Screenshot 3b : Docker containing nginx

```
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 up
2022/02/23 09:06:56 [notice] 1#1: using the "epoll" event method
2022/02/23 09:06:56 [notice] 1#1: nginx/1.21.6
2022/02/23 09:06:56 [notice] 1#1: built by gcc 10.2.1 20210110 (Debian 10.2.1-6)
2022/02/23 09:06:56 [notice] 1#1: OS: Linux 4.4.0-210-generic
2022/02/23 09:06:56 [notice] 1#1: getrlimit(RLIMIT NOFILE): 1048576:1048576
2022/02/23 09:06:56 [notice] 1#1: start worker processes
2022/02/23 09:06:56 [notice] 1#1: start worker process 32
2022/02/23 09:06:56 [notice] 1#1: start worker process 33
2022/02/23 09:06:56 [notice] 1#1: start worker process 34
2022/02/23 09:06:56 [notice] 1#1: start worker process 35
2022/02/23 09:06:56 [notice] 1#1: start worker process 36
2022/02/23 09:06:56 [notice] 1#1: start worker process 37
2022/02/23 09:06:56 [notice] 1#1: start worker process 38
2022/02/23 09:06:56 [notice] 1#1: start worker process 39
```

Screenshot 3c: Python application successfully running and reading from Mongo database

```
[node1] (local) root@192.168.0.13 ~
$ docker run task3b
Inserted into the MongoDB database!
Fecthed from MongoDB: {'_id': ObjectId('6216023e299e2533c7268e00'), 'Name:': 'Trisha Jain', 'SRN': 'PES1UG19CS542'}
```

Screenshot 3d: MongoDB being run withing the network

```
[node1] (local) root@192.168.0.13 ~
$ docker run -dp 27017:27017 --network=my-bridge-network --name=mongodb mongo:latest
237d82272a57ab175d890f2f6b63bc31bb4566029417d62cff22885c72d0eb72
```

<u>Screenshot 3e</u>: Python file being run within the network and successfully writing and reading from MongoDB

```
[nodel] (local) root@192.168.0.13 ~
$ docker run --network=my-bridge-network task3c
Inserted into the MongoDB database!
Fecthed from MongoDB: {'_id': ObjectId('621604b24bd73ef46cc3f694'), 'Name:': 'Trisha Jain', 'SRN': 'PES1UG19CS542'}
[nodel] (local) root@192.168.0.13 ~
```

Screenshot 4a: Python-MongoDB application running as a docker-compose application

```
"ctx":"LogicalSessionCacheRefresh", "msg":"Index build: done building", "attr":{"b
uildUUID":null,"namespace":"config.system.sessions","index":"lsidTTLIndex","commitTimestam
p":null}}
           | {"t":{"$date":"2022-02-23T10:05:51.314+00:00"}, "s":"I", "c":"INDEX", "id" "ctx":"conn3", "msg":"Index build: done building", "attr":{"buildUUID":null, "names
mongodb 1
:20345,
pace":"sample_db.sample_collection","index":"_id_","commitTimestamp":null}}
             Inserted into the MongoDB database!
             Fecthed from MongoDB: {'_id': ObjectId('621606ffb6d735023f568ea4'), 'Name:':
'Trisha Jain', 'SRN': 'PES1UG19CS542'}
"ctx": "conn1", "msg": "Interrupted operation as its client disconnected", "attr": {"
:20883,
opId":13}}
mongodb_1
             {"t":{"$date":"2022-02-23T10:05:51.801+00:00"},"s":"I", "c":"NETWORK",
                                                                                                       "id"
:22944, "ctx":"conn1","msg":"Connection ended","attr":{"remote":"172.20.0.3:57940","uuid
":"189b5f77-6809-4e21-81db-ed9b273ea269","connectionId":1,"connectionCount":2}}
mongodb_1 {"t":{"$date":"2022-02-23T10:05:51.811+00:00"},"s":"I", "c":"NETWORK",
           "ctx":"conn3", "msg":"Connection ended", "attr":{ "remote": "172.20.0.3:57944", "uuid
:22944,
":"59a1f0db-3b1f-4434-8540-4d9403aae92f","connectionId":3,"connectionCount":1}}
mongodb_1 | {"t":{"$date":"2022-02-23T10:05:51.812+00:00"},"s":"I", "c":"NETWORK", "id"
:22944, "ctx":"conn2","msg":"Connection ended","attr":{"remote":"172.20.0.3:57942","uuid
":"1ff76647-d5c8-4636-8687-f2aea2a6f7f9","connectionId":2,"connectionCount":0}}
root_pycode_1 exited with code 0
```

Screenshot 4b: 3 python application writes and reads after scaling the application