Cloud computing lab week 5 : Docker

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Section: G

Task-1

```
Last login: Thu Feb 18 16:05:37 2021 from 49.37.172.22
ubuntu@ip-172-31-73-230:~$ docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
0e03bdcc26d7: Pull complete
Digest: sha256:95ddb6c31407e84e91a986b004aee40975cb0bda14b5949f6faac5d2deadb4b9
Status: Downloaded newer image for hello-world:latest
Hello from Docker!
This message shows that your installation appears to be working correctly.
To generate this message, Docker took the following steps:
                                                                                    for change
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
                                                                                    pletely an
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
                                                                                    oups:
    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:
                                                                                    ainer runs
 https://docs.docker.com/get-started/
                                                                                    the dock
ubuntu@ip-172-31-73-230:-$
                                                                                     s due to t
```

Task-2

```
Successfully bullt 11b94a9c088c
Successfully tagged my_first_image:latest
ubuntu@ip-172-31-73-230:-/C$ docker images
REPOSITORY
                 TAG
                           IMAGE ID
                                          CREATED
                                                           SIZE
my_first_image
                 latest
                           11b94a9cd88c
                                          22 seconds ago
                                                           210MB
ubuntu
                 18.04
                           c090eaba6b94
                                          4 weeks ago
                                                           63.3MB
                                          13 months ago
hello-world
                 latest
                           bf756fb1ae65
                                                           13.3kB
ubuntu@ip-172-31-73-230:-/C$ docker run my first image
Running this inside a container !
My SRN is PES1201800177
ubuntu@ip-172-31-73-230:-/C$
```



My SRN is PES1201800177>

I am running a nginx container!

```
ubuntu@ip-172-31-73-230:-/html$ docker run -p 80:80 my_first_image
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perfo
rm configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-defau
lt.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.s
h
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.s
h
/docker-entrypoint.sh: Configuration complete; ready for start up
49.37.172.22 - - [18/Feb/2021:17:20:45 +0000] "GET /my.html HTTP/1.1" 200 111 "-
" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome
```

```
ubuntu@ip-172-31-73-230:~/mongo$ docker run task2
Inserted into the MongoDB database!
Fecthed from MongoDB: {'_id': ObjectId('602ea75eacfb8f555c14ae79'), 'Name:': '<
YOUR NAME HERE>', 'SRN': '<YOUR SRN HERE>'}
ubuntu@ip-172-31-73-230:~/mongo$|
```

```
      ubuntu@ip-172-31-73-230: /mongo$ docker run -dp 27017:27017 --name mongodb --network=my-bridge-network mongo

      2088f9b346a8a65a5bf7dbc58fe826d764ee75be399d1cf53ac3a535816160de

      ubuntu@ip-172-31-73-230: /mongo$ docker ps

      CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

      2088f9b346a8 mongo "docker-entrypoint.s..." 9 seconds ago Up 8 seconds 0.0.0.0:27017->27017/tcp mongodb
```

```
ubuntu@ip-172-31-73-230:-/mongo$ docker run --network=my-bridge-network task2
Inserted into the MongoDB database!
Fecthed from MongoDB: {'_id': ObjectId('602ea936264d6c68a2e84bfb'), 'Name:': '<YOUR NAME HERE>', 'SRN': '<YOUR SRN HERE
>'}
```

```
mongodb_1 | {"t":{"$date":"2021-02-18T18:04:25.552+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listene
g":"Connection accepted","attr":{"remote":"172.20.0.3:54684","connectionId":3,"connectionCount":3}}
mongodb_1 | {"t":{"$date":"2021-02-18T18:04:25.553+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn2",
"client metadata","attr":{"remote":"172.20.0.3:54682","client":"conn2","doc":{"driver":{"name":"PyMongo","version"
    .3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.4.0-1037-aws"},"platform":"CPython 3
inal.0"}}}
    ongodb_1 | {"t":{"$date":"2021-02-18T18:04:25.553+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn3",
client metadata","attr":{"remote":"172.20.0.3:54684","client":"conn3","doc":{"driver":{"name":"PyMongo","version"
3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.4.0-1037-aws"},"platform":"CPython 3
inal.0"}}}
inal.0"}}}
mongodb_1 | {"t":{"$date":"2021-02-18T18:04:25.554+00:00"},"s":"I", "c":"STORAGE", "id":20320, "ctx":"conn2",
"createCollection","attr":{"namespace":"sample_db.sample_collection","uuidDisposition":"generated","uuid":{"uuid":
d":"e3d2b1c7-10a5-45ed-a669-526af737f2c7"}},"options":{}}}
mongodb_1 | {"t":{"$date":"2021-02-18T18:04:25.570+00:00"},"s":"I", "c":"INDEX", "id":20345, "ctx":"conn2",
"Index build: done building","attr":{"buildUUID":null,"namespace":"sample_db.sample_collection","index":"_id_","co
mestamp":{"$timestamp":{"t":0,"i":0}}}}
   | "t":{"$date":"2021-02-18T18:04:26.054+00:00"},"s":"I", "c":"-", "id":20883, |
| Interrupted operation as its client disconnected","attr":{"opId":20}} |
| ongodb_1 | {"t":{"$date":"2021-02-18T18:04:26.055+00:00"},"s":"I", "c":"NETWORK", "id":22944, |
| Connection ended","attr":{"remote":"172.20.0.3:54680","connectionId":1,"connectionCount":2}} |
| ongodb_1 | {"t":{"$date":"2021-02-18T18:04:26.059+00:00"},"s":"I", "c":"NETWORK", "id":22944, |
| ongodb_1 | {"t":{"t":{"tomore "tomore "tomo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "ctx":"conn1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "ctx": "conn1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "ctx": conn2"
                                 "driver":{"name":"PyMongo","version":"3.11.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.4.0-1037-aws"},"platforn

| | {"t":{"$date":"2021-02-18718:06:32.364+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn2","msg":"client metadata","attr":{"remot
"driver":{"name":"PyMongo","version":"3.11.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.4.0-1037-aws"},"platforn

| Inserted into the MongoDB database!
| Fecthed from MongoDB: None
                                             | Inserted into the MongoDB database:
| Fecthed from MongoDB: None
| {"t":{"$date":"2021-02-18T18:06:32.515+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection accepted","attr"
| {"t":{"$date":"2021-02-18T18:06:32.515+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection accepted","attr"
   Ongodb_1 | {"t":{"$date":"2021-02-18T18:06:32.518+00:00"}, "s":"1", "c":"NETWORK , 10 .22,43,
n1d":5,"connectionCount":5}}
ongodb_1 | {"t":{"$date":"2021-02-18T18:06:32.518+00:00"}, "s":"1", "c":"NETWORK", "id":51800, "ctx":"conn5", "msg":"client metadata", "attr":{"remot
"doc":{"driver":{"name":"PyMongo", "version":"3.11.3"}, "os":{"type":"Linux", "name":"Linux", "architecture":"x86_64", "version":"5.4.0-1037-aws"}, "platform
ycode_2 | Inserted into the MongoOb database!
ycode_2 | Fecthed from MongoOb: None
longodb_1 | {"t":{"$date":"2021-02-18T18:06:32.568+00:00"}, "s":"I", "c":"NETWORK", "id":22943, "ctx":"listener", "msg":"Connection accepted", "attr":
"connoctionCount":61}
      ongodb_1 | {"t":{"$date":"2021-02-1818:86:32.570+00:00"}, S:I, C: METMORK", 10.12799, CEX. Statement """
ongodb_1 | {"t":{"$date":"2021-02-18T18:06:32.571+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn7","msg":"client metadata","attr":{"remot
"doc":{"driver":{"name":"PyMongo","version":"3.11.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.4.0-1037-aws"},"platform
ongodb_1 | {"t":{"$date":"2021-02-18T18:06:32.571+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection accepted","attr":
""" one of the control of
  , "connectionCount":6}}
angodb_1 | {"t":{"$date":"2021-02-18T18:06:32.869+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":"conn2","msg":"Connection ended","attr":{"remo,"connectionCount":5}}
angodb_1 | {"t":{"$date":"2021-02-18T18:06:32.869+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":"conn5","msg":"Connection ended","attr":{"remo,"connectionCount":4}}
""connectionCount":4}
""connectionCount":4}
```