Experiment 2 - Docker on Linux/Windows/Mac OS

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Section:	K

Screenshots: 1a.

```
::\Users\chait\Desktop\PES1UG20CS634>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:

    The Docker client contacted the Docker daemon.
    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/
:\Users\chait\Desktop\PES1UG20CS634>
```

2a.

```
:\Users\chait\Desktop\PES1UG20C5634>docker pull python

Jsing default tag: latest

Latest: Pulling from library/python

Jigest: sh255:dd25a3ad2943e5feb9c57lb763936c843d7a6f45216f508bfe99741067f4ca06

-| Building 40.4s (11/11) FINISHED

| internal] load build definition from Dockerfile

| building 40.4s (11/11) FINISHED

| internal] load weld definition from Dockerfile

| building 40.4s (11/11) FINISHED

| internal] load metadata for docker.io/library/ubuntu:18.04

| internal] load metadata for docker.io/library/ubuntu:18.04

| auth] library/ubuntu:pull token for registry-1.docker.io

| CACHED [1/5] FROM docker.io/library/ubuntu:18.04@sha256:a3765b4d74747b5e9bdd03205b3fbc4fa19a02781c185f97f24c8f4f84ed7bbf

| internal] load build context

| building 40.4s (11/5) FROM docker.io/library/ubuntu:18.04@sha256:a3765b4d74747b5e9bdd03205b3fbc4fa19a02781c185f97f24c8f4f84ed7bbf

| internal] load build context

| building 50.4s (11/5) FROM docker.io/library/ubuntu:18.04@sha256:a3765b4d74747b5e9bdd03205b3fbc4fa19a02781c185f97f24c8f4f84ed7bbf

| internal] load build context

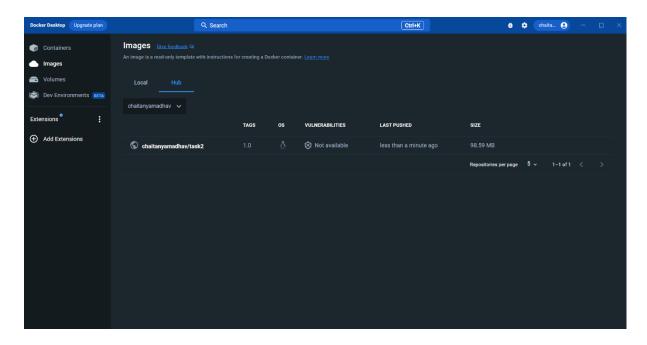
| building 50.4s (11/5) FROM docker.io/library/tabuntu:18.04@sha256:a3765b4d74747b5e9bdd03205b3fbc4fa19a02781c185f97f24c8f4f84ed7bbf

| building 50.4s (11/5) FROM docker.io/library/tabuntu:18.04@sha256:a3765b4d0326b4d03205b3fbc4f3736f7031f42f9339400758b04e89822

| building 50.4s (11/5) FROM docker.io/library/tabuntu:18.04@sha256:a3765b4d0326b4d03205b3fbc4fa19a0278b6f85b6197f3f42f9339400758b04e89822

| building 50.4s (11/5) FROM docker.io/library/tabuntu:18.04@sha256:a3765b4d0326b4d03205b3fb4d03205b3fb4d03205b3fb4d03205b3fb4d03205b3fb4d03205b3fb4d03205b3fb4d0320
```

2b.



```
C:\Users\chait\Desktop\PES1UG20CS634>docker login -u chaitanyamadhav -p RCM@108108 docker.io
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
Login Succeeded

C:\Users\chait\Desktop\PES1UG20CS634>docker tag task2 chaitanyamadhav/task2:1.0

C:\Users\chait\Desktop\PES1UG20CS634>docker push chaitanyamadhav/task2:1.0

The push refers to repository [docker.io/chaitanyamadhav/task2]

45a4b9cd9f23: Pushed
25c874ceda0b: Pushed
315823fc00c3: Pushed
815823fc00c3: Pushed
68a825114f60: Pushed
475a54c2a93d: Mounted from library/ubuntu
1.0: digest: sha256:05b2025b8b0242c91520295ae5ac32fbc97ceda30d07c4d21452eb0db9023dfd size: 1368

C:\Users\chait\Desktop\PES1UG20CS634>=
```

3a.

```
C:\Users\chait\Desktop\PES\U608C6S34\task3>docker run -p 80:80 task3

//docker-entrypoint.sh: //docker-entrypoint.d/ is not empty, will attempt to perform configuration
//docker-entrypoint.sh: //docker-entrypoint.d/ is not empty, will attempt to perform configuration
//docker-entrypoint.sh: //docker-entrypoint.d/ is not empty, will attempt to perform configuration
//docker-entrypoint.sh: isofic final file checkuse of /etc/eginx/conf.d/default.conf
//docker-entrypoint.sh: isofic final file islate on Psy is /etc/eginx/conf.d/default.conf
//docker-entrypoint.sh: isomething //docker-entrypoint.d/20-ensysbst-on-templates.sh
//docker-entrypoint.sh: isomething //docker-entrypoint.d/20
```

3b.



My SRN is PES2UG19CS634

I am running a nginx container!

3c.

```
C:\Users\chait\Desktop\PES1UG20CS634\task3>docker run task3
Inserted into the MongoDB database!
Fecthed from MongoDB: {'_id': ObjectId('63e39f72c528bc4bbdadd6de'), 'Name:': 'Chaitanya Madhav R', 'SRN': 'PES1UG20CS634'}
C:\Users\chait\Desktop\PES1UG20CS634\task3>
```

3e.

```
C:\Users\chait\Desktop\PES1UG20CS634\task3>docker build -t task3 .

[+] Building 0.1s (9/9) FINISHED

=> [internal] load build definition from Dockerfile

=> > transferring dockerfile: 150B

=> [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: 454B

=> CACHED [2/4] RUN apt-get update

=> CACHED [3/4] RUN pip install pymongo

=> CACHED [4/4] COPY sample.py sample.py

=> exporting to image

=> > exporting layers

=> > maing to docker.io/library/task3
```

4a.

4b.

