

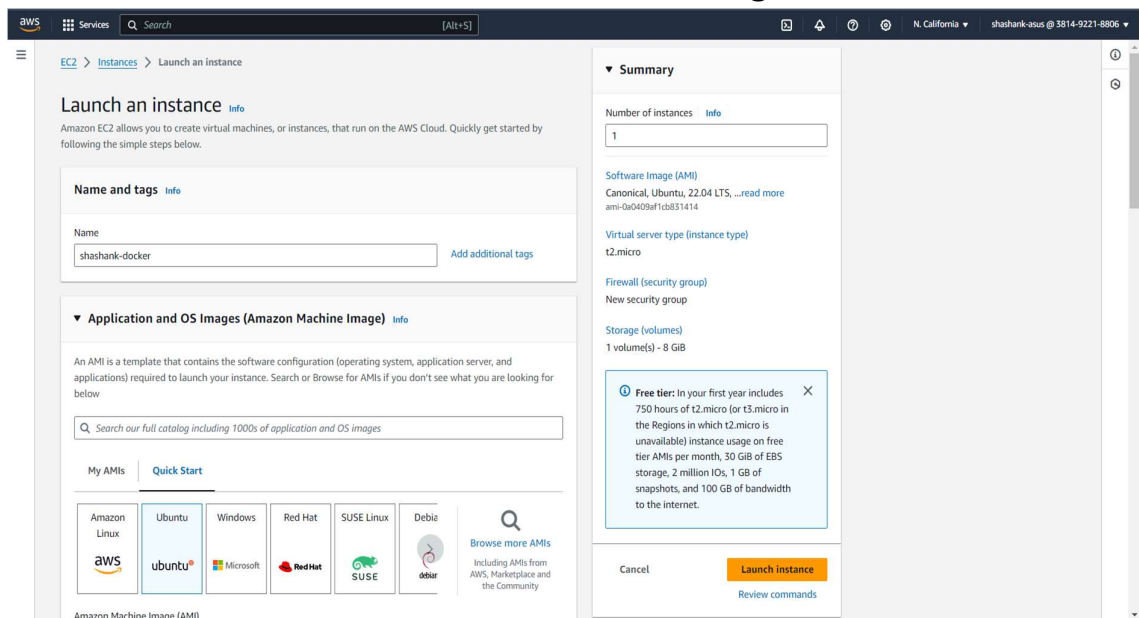
## Task

### Creating docker image of centos 7 and host CSS template

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**Note – for docker practical you need docker hub account**

#### 1. Create and launch EC2 instance with ubuntu image.



#### 2. Install the docker into the terminal.

Use commands

Sudo -i

Link - <https://docs.docker.com/engine/install/ubuntu/>

After installing docker in your terminal use commad

Systemctl start docker

#### 3. Take a git clone of your repo. In which your image file is present.

Use commands

git clone <your repo https code>

ls

cd <your repo>

ls

Enter in your folder or file which contain docker image script or code.

4. Create docker image from your docker image file using command.  
docker build .

```
root@ip-172-31-14-15:~/docker_images/centos# docker build .
[+] Building 29.5s (13/13) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 375B
=> [internal] load metadata for docker.io/library/centos:7
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/8] FROM docker.io/library/centos:7@sha256:be65f488b7764ad3638f236b7b515b3678369a5124c47b8d32916d6487418ea4
=> => resolve docker.io/library/centos:7@sha256:be65f488b7764ad3638f236b7b515b3678369a5124c47b8d32916d6487418ea4
=> => sha256:2d473b07cdd5f0912cd6f1a703352c82b512407db6b05b43f2553732b55df3bc 76.10MB / 76.10MB
=> => sha256:be65f488b7764ad3638f236b7b515b3678369a5124c47b8d32916d6487418ea4 1.20kB / 1.20kB
=> => sha256:dead07b4d0ed7e29e98de0f4504d07e880d4347859d839686a31da35a3b532f 529B / 529B
=> => sha256:eeb6ee3f44bd0b5103bb561b4c16bcb82328cfe5809ab675bb17ab3a16c517c9 2.75kB / 2.75kB
=> => extracting sha256:2d473b07cdd5f0912cd6f1a703352c82b512407db6b05b43f2553732b55df3bc
=> https://www.free-css.com/assets/files/free-css-templates/download/page296/neoqym.zip
=> [2/8] RUN yum install httpd -y
=> [3/8] RUN yum install unzip -y
=> [4/8] RUN rm -rf /var/www/html/index.html
=> [5/8] ADD https://www.free-css.com/assets/files/free-css-templates/download/page296/neoqym.zip /var/www/html/
=> [6/8] WORKDIR /var/www/html/
=> [7/8] RUN unzip neoqym.zip
=> [8/8] RUN mv neoqym-html/* .
=> exporting to image
=> => exporting layers
=> => writing image sha256:3051d88bb3db0f6f355bf983814762731b263157bc805185ac9ad3900b472023
```

5. After building of image use this command to see your image created or not use command.

docker images or docker image ls

```
root@ip-172-31-14-15:~/docker_images/centos# docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
<none>        <none>    3051d88bb3db  46 seconds ago  688MB
```

6. Give tag to the images use command.

```
docker tag <image_id> <dockerhub-user>/<dockerhub-repo>[:<tag>]
```

docker images or docker image ls

```
root@ip-172-31-14-15:~/docker_images/centos# docker tag 3051d88bb3db shashank9532dockerhub/docker:newone
root@ip-172-31-14-15:~/docker_images/centos# docker image ls
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
shashank9532dockerhub/docker	newone	3051d88bb3db	5 minutes ago	688MB

7. Login into your docker hub account use

```
docker login
```

(It ask for dockerhub username & password enter this)

8. Add port number to the image use command.

```
docker run -d -p <port-no>:<image-port-no> <dockerhub-user>/<dockerhub-repo>[:<tag>]
```

```
root@ip-172-31-14-15:~/docker_images/centos# docker run -d -p 80:80 shashank9532dockerhub/docker:newone
a90f0ebb61fb093ffaee9790ef9ba75581eff44244337900fb3381a9310d7e88
```

docker ps -a

```
root@ip-172-31-14-15:~/docker_images/centos# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
a90f0ebb61fb	shashank9532dockerhub/docker:newone	"/bin/sh -c 'httpd -..."	5 minutes ago	Up 5 minutes	0.0.0.0:80->80/tcp, :::80->80/tcp	magical hugle

9. Use push command to push your image to your docker repo.


`docker push <dockerhub-user>/<dockerhub-repo>[:<tag>]`

```
root@ip-172-31-14-15:~/docker_images/centos# docker push shashank9532dockerhub/docker:newone
The push refers to repository [docker.io/shashank9532dockerhub/docker]
ed7732e07776: Pushed
2fa555d36f67: Pushed
5f70bf18a086: Pushed
0b09fe32f3b6: Pushed
45ce9f4ff377: Pushed
a5b7a99aa7d6: Pushed
b7e8d3690882: Pushed
174f56854903: Mounted from library/centos
newone: digest: sha256:1a398bdbbc1704f83455c2d4e0338cdc882f659a57f97cb2c04b141689e72497c size: 1996
```

10. Copy the IP address and host into the browser.



11. Go your dockerhub and check whether your image push or not.

 dockerhub

ExploreRepositoriesOrganizations


ctrl+K

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shashank9532dockerhub / Repositories / docker / newone



shashank9532dockerhub/docker:newone

MANIFEST DIGEST sha256:1a398bdbc1704f83455c2d4e0338cdc882f659a57f97cb2c04b141689e72497c

Delete Tag

OS/ARCH	COMPRESSED SIZE	LAST PUSHED	TYPE	MANIFEST DIGEST
linux/amd64	231.62 MB	38 minutes ago by shashank9532dockerhub	Image	sha256:1a398bdbc...

Image Layers

Vulnerabilities

IMAGE LAYERS

1	ADD file ... in /	72.57 MB	Command
2	LABEL org.label-schema.schema-version=1.0 org.label...	0 B	ADD file:b3ebbe8bd384723d43b7b44a6d990cd657b63d93d6a2a9293983a390efc1dfa53 in /
3	CMD ["/bin/bash"]	0 B	
4	LABEL centos_demo== shashank	0 B	
5	RUN /bin/sh -c yum install	186.16 MB	
6	RUN /bin/sh -c yum install	50.82 MB	