

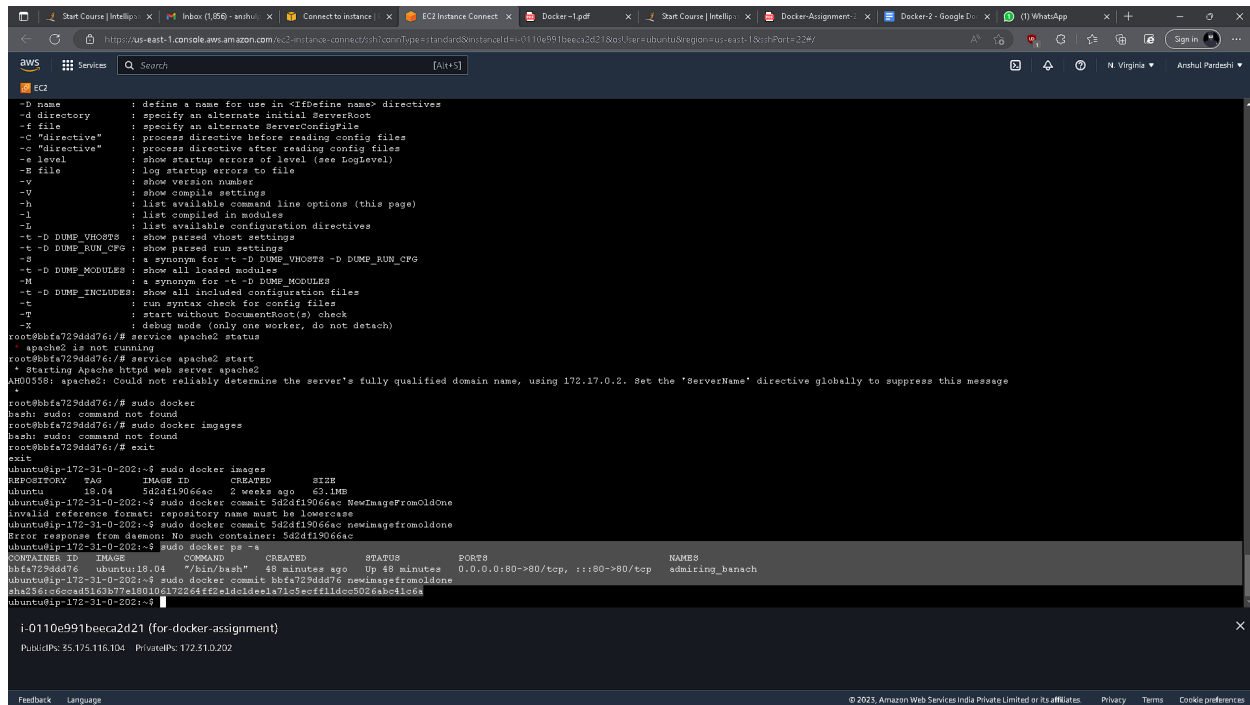
## Docker-2

You have been asked to:

- Save the image created in “Docker-1” as a Docker image
- Launch container from this new image and map the port to 81
- Go inside the container and start the apache2 service
- Check if you are able to access it on the browser

To create new image with the help of previous image we use this command:  
**Sudo docker commit <previous container id> <new name for the image>**

Use: **sudo docker ps -a** #to know container id of image



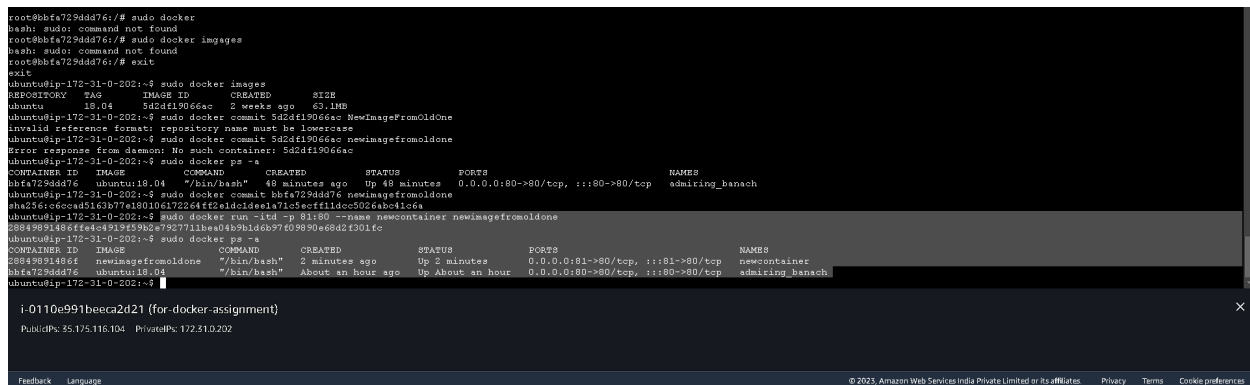
```
root@bbfa7294dd76:/# define a name for use in "iDefine name" directives
root@bbfa7294dd76:/# specify an alternate initial ServerRoot
root@bbfa7294dd76:/# specify an alternate ServerConfigFile
root@bbfa7294dd76:/# process directive before reading config files
root@bbfa7294dd76:/# process directive after reading config files
root@bbfa7294dd76:/# show startup errors of level (see LogLevel)
root@bbfa7294dd76:/# log startup errors to file
root@bbfa7294dd76:/# show version number
root@bbfa7294dd76:/# show compile settings
root@bbfa7294dd76:/# list available command line options (this page)
root@bbfa7294dd76:/# list compiled in modules
root@bbfa7294dd76:/# list available configuration directives
root@bbfa7294dd76:/# show parsed vhost settings
root@bbfa7294dd76:/# show parsed run settings
root@bbfa7294dd76:/# a synonym for -t -D DUMP_VHOSTS -D DUMP_RUN_CFG
root@bbfa7294dd76:/# show all loaded modules
root@bbfa7294dd76:/# a synonym for -t -D DUMP_MODULES
root@bbfa7294dd76:/# show all included configuration files
root@bbfa7294dd76:/# run syntax check for config files
root@bbfa7294dd76:/# debug mode (only one worker, do not detach)
root@bbfa7294dd76:/# start without DocumentRoot(s) check
root@bbfa7294dd76:/# debug mode (only one worker, do not detach)
root@bbfa7294dd76:/# service apache2 status
apache2 is not running
root@bbfa7294dd76:/# service apache2 start
* Starting Apache httpd web server: apache2
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message
root@bbfa7294dd76:/# auto docker
bash: sudo: command not found
root@bbfa7294dd76:/# auto docker images
bash: sudo: command not found
root@bbfa7294dd76:/# exit
exit
ubuntu@ip-172-31-0-202:~$ sudo docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
ubuntu              18.04              5d2df19066ac        2 weeks ago        63.1MB
ubuntu@ip-172-31-0-202:~$ sudo docker commit 5d2df19066ac NewImageFromOldOne
Invalid reference format: repository name must be lowercase
ubuntu@ip-172-31-0-202:~$ sudo docker commit 5d2df19066ac newimagefromoldone
Error response from daemon: No such container: 5d2df19066ac
ubuntu@ip-172-31-0-202:~$ sudo docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
bbfa7294dd76       ubuntu:18.04        "/bin/bash"         48 minutes ago      Up 48 minutes      0.0.0.0:80->80/tcp, :::80->80/tcp   admiring_banach
ubuntu@ip-172-31-0-202:~$ sudo docker commit bbfa7294dd76 newimagefromoldone
sha256:66c6ad5163b77a18010617226f62e1dc1de6b97d55ecff1d0c5026abc41e64
ubuntu@ip-172-31-0-202:~$
```

Now we need to launch this image on new port 81.

For this as we know we us:

**sudo docker run -itd -p 81:80 --name <New container name> <new name for the image>**

This command will run a new image on port 81 with a new container named.



```
root@bbfa7294dd76:/# auto docker
bash: sudo: command not found
root@bbfa7294dd76:/# auto docker images
bash: sudo: command not found
root@bbfa7294dd76:/# exit
exit
ubuntu@ip-172-31-0-202:~$ sudo docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
ubuntu              18.04              5d2df19066ac        3 weeks ago        63.1MB
ubuntu@ip-172-31-0-202:~$ sudo docker commit 5d2df19066ac NewImageFromOldOne
Invalid reference format: repository name must be lowercase
ubuntu@ip-172-31-0-202:~$ sudo docker commit 5d2df19066ac newimagefromoldone
Error response from daemon: No such container: 5d2df19066ac
ubuntu@ip-172-31-0-202:~$ sudo docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
bbfa7294dd76       ubuntu:18.04        "/bin/bash"         48 minutes ago      Up 48 minutes      0.0.0.0:80->80/tcp, :::80->80/tcp   admiring_banach
ubuntu@ip-172-31-0-202:~$ sudo docker commit bbfa7294dd76 newimagefromoldone
sha256:66c6ad5163b77a18010617226f62e1dc1de6b97d55ecff1d0c5026abc41e64
ubuntu@ip-172-31-0-202:~$ sudo docker run -itd -p 81:80 --name newcontainer newimagefromoldone
288a9891486ffe4c491959b2e727711bea04b9b1d6b97d55ecff1d0c5026abc41e64
ubuntu@ip-172-31-0-202:~$ sudo docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
288a9891486ffe4c491959b2e727711bea04b9b1d6b97d55ecff1d0c5026abc41e64   newimagefromoldone   "/bin/bash"         2 minutes ago      Up 2 minutes      0.0.0.0:81->80/tcp, :::81->80/tcp   newcontainer
bbfa7294dd76       ubuntu:18.04        "/bin/bash"         About an hour ago   Up About an hour   0.0.0.0:80->80/tcp, :::80->80/tcp   admiring_banach
ubuntu@ip-172-31-0-202:~$
```

## To get into new container: `sudo docker exec -it newcontainer bash`

## To start apache2: `service apache2 start`

```
Start Course | Inbo... | Connect to inst... | EC2 Instance Conn... | Docker - 1.pdf | Start Course | Inbo... | Docker-Assignm... | Docker-2 - Google... | (1) WhatsApp | Sign in...  
aws ec2  
-L : list available configuration directives  
-D DUMP_VMOPTS : show parsed vmopts settings  
-D DUMP_RUN_CFG : show parsed run settings  
-M : a synonym for -t -D DUMP_VMOPTS -D DUMP_RUN_CFG  
-D DUMP_MODULES : show all loaded modules  
-M : a synonym for -t -D DUMP_MODULES  
-D DUMP_INCLUDES : show all included configuration files  
-t : run syntax check for config files  
-T : start without DocumentRoot(s) check  
-X : debug mode (only one worker, do not detach)  
root@bbfa729dd76:/# service apache2 status  
apache2 is not running  
root@bbfa729dd76:/# service apache2 start  
 * Starting Apache httpd web server apache2  
AN00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message  
root@bbfa729dd76:/# sudo docker  
bash: sudo: command not found  
root@bbfa729dd76:/# sudo docker images  
bash: sudo: command not found  
root@bbfa729dd76:/# exit  
exit  
ubuntu@ip-172-31-0-2021:~$ sudo docker images  
REPOSITORY TAG IMAGE ID CREATED SIZE  
ubuntu 18.04 5d2df19066ac 3 weeks ago 63.1MB  
ubuntu@ip-172-31-0-2021:~$ sudo docker commit 5d2df19066ac NewImageFromOldOne  
Invalid reference format: repository name must be lowercase  
ubuntu@ip-172-31-0-2021:~$ sudo docker commit 5d2df19066ac newimagefromoldone  
Error response from daemon: No such container: 5d2df19066ac  
ubuntu@ip-172-31-0-2021:~$ sudo docker ps -a  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
bbfa729dd76 ubuntu:18.04 "/bin/bash" 48 minutes ago Up 48 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp admiring_banach  
ubuntu@ip-172-31-0-2021:~$ sudo docker commit bbfa729dd76 newimagefromoldone  
5d2df19066acbbfa729dd76:5d2df19066acbbfa729dd76:5d2df19066acbbfa729dd76:5d2df19066ac  
ubuntu@ip-172-31-0-2021:~$ sudo docker run -itd -p 81:80 --name newcontainer newimagefromoldone  
28849891486ffe4c491959b2e7927711bea04b9b1d6b97d09890e68d2f301fc  
ubuntu@ip-172-31-0-2021:~$ sudo docker ps -a  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
28849891486ff newimagefromoldone "/bin/bash" 2 minutes ago Up 2 minutes 0.0.0.0:81->80/tcp, :::81->80/tcp newcontainer  
bbfa729dd76 ubuntu:18.04 "/bin/bash" About an hour ago Up About an hour 0.0.0.0:80->80/tcp, :::80->80/tcp admiring_banach  
ubuntu@ip-172-31-0-2021:~$ sudo docker exec -it newcontainer bash  
root@28849891486ff:/# service apache2 start  
 * Starting Apache httpd web server apache2  
AN00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.3. Set the 'ServerName' directive globally to suppress this message  
root@28849891486ff:/#  
i:0110e991beeca2d21 (for docker-assignment)  
PublicIPs: 35.175.116.104 PrivateIPs: 172.31.0.202  
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```

## Now lets copy public ip and let us check on new port 81 if apache2 is running.

