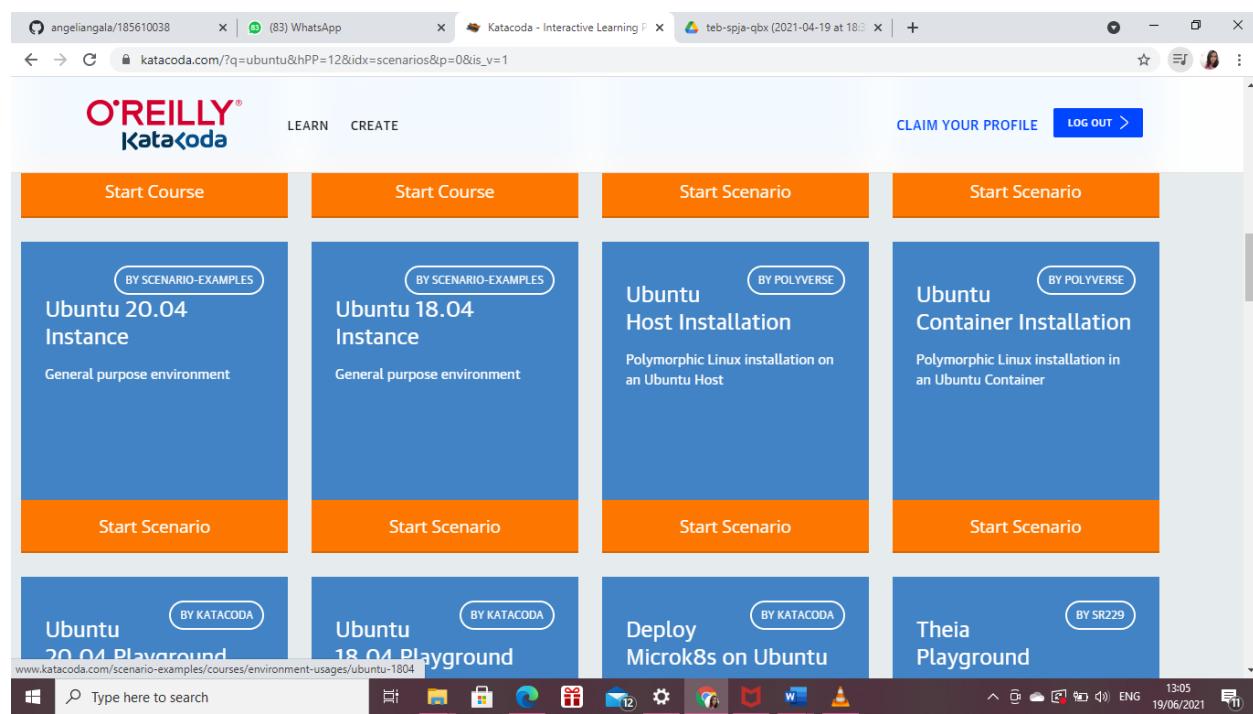
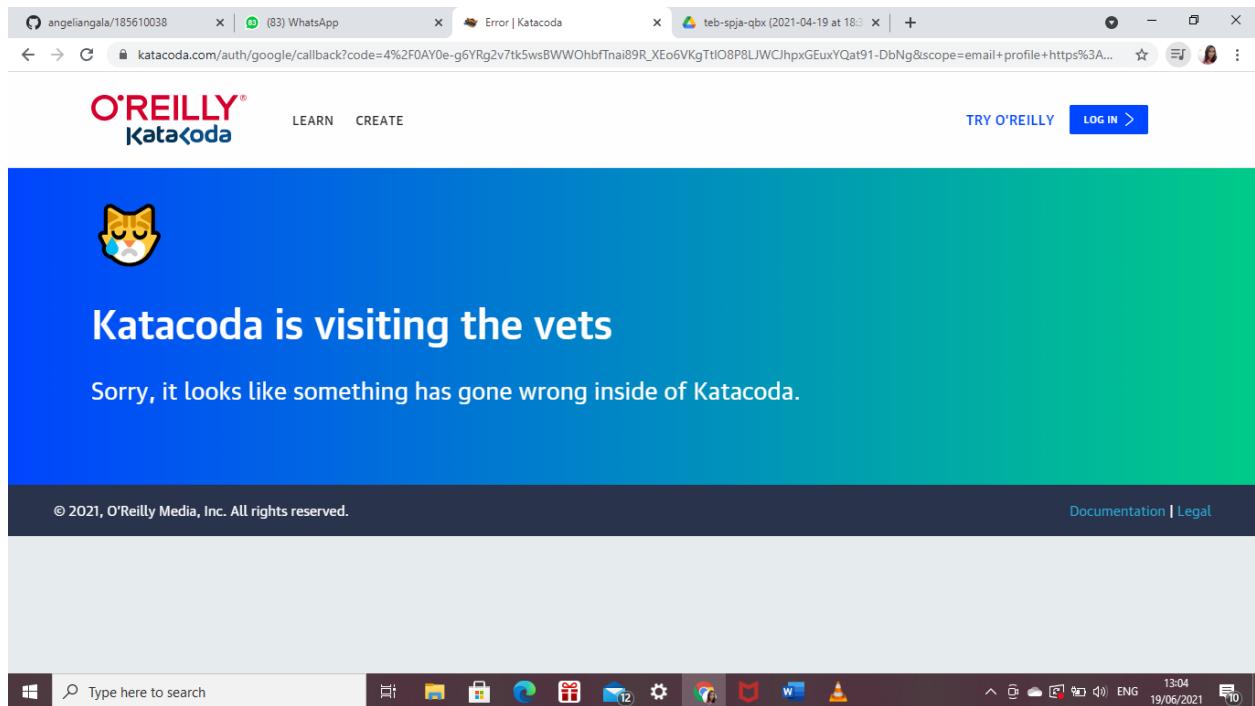


NAMA : ANGELIA FRANSISKA NGALA
NIM : 185610038



Install docker version

NAMA : ANGELIA FRANSISKA NGALA

NIM : 185610038

The screenshot shows a Katacoda instance titled "Ubuntu 18.04 Instance". In the terminal window, the user runs the command `$ docker vecesion`, which outputs:

```
$ docker vecesion
docker: 'vecesion' is not a docker command.
See 'docker --help'
$ docker version
Client: Docker Engine - Community
  Version: 19.03.13
  API version: 1.40
  Go version: go1.13.15
  Git commit: 44b4c46d9d
  Built: Wed Sep 16 17:02:36 2020
  OS/Arch: linux/amd64
  Experimental: false

Server: Docker Engine - Community
Engine:
  Version: 19.03.13
  API version: 1.40 (minimum version 1.12)
  Go version: go1.13.15
  Git commit: 44b4c46d9d
  Built: Wed Sep 16 17:01:06 2020
  OS/Arch: linux/amd64
  Experimental: false
containerd:
  Version: 1.3.7
  GitCommit: 8fba4e9a7d01810a393d5d25a3621dc101981175
runc:
  Version: 1.0.0-rc10
  GitCommit: dc9208a3303feef5b3839f4323d9beb36df0a9dd
docker-init:
  Version: 0.18.0
  GitCommit: fec3683
$
```

Below the terminal, there is a "CONTINUE" button.

The screenshot shows a Katacoda instance titled "Ubuntu 18.04 Instance". In the terminal window, the user runs the command `$ docker --help`, which outputs the usage and options for Docker:

```
Usage: docker [OPTIONS] COMMAND
A self-sufficient runtime for containers

Options:
  --config string      Location of client config files (default "/root/.docker")
  -c, --context string Name of the context to use to connect to the daemon (overrides
                        DOCKER_HOST env var and default context set with "docker
                        context use")
  -D, --debug          Enable debug mode
  -H, --host list      Daemon socket(s) to connect to
  -l, --log-level string Set the logging level ("debug"|"info"|"warn"|"error"|"fatal")
                        (default "info")
  --tls                Use TLS; implied by --tlsv1.2
  --tlscacert string   Trust certs signed only by this CA (default "/root/.docker/ca.pem")
  --tlscert string     Path to TLS certificate file (default "/root/.docker/cert.pem")
  --tlskey string       Path to TLS key file (default "/root/.docker/key.pem")
  --tlsv1.2              Use TLS and verify the remote
  -v, --version         Print version information and quit

Management Commands:
  builder    Manage builds
  config     Manage Docker configs
  container  Manage containers
  context    Manage contexts
  engine     Manage the docker engine
  image      Manage images
  network   Manage networks
  node      Manage Swarm nodes
  plugin    Manage plugins
```

NAMA : ANGELIA FRANSISKA NGALA

NIM : 185610038

The Katacoda Ubuntu Environment is a flexible single node environment. Users are connected to the environment as `root`. This provides them with full flexibility to install additional packages, explore the internals of Linux and experiment with new ideas.

The environment also comes with Docker, meaning additional containers can be pulled and access as and when required.

CONTINUE

```
Terminal
+ Restart one or more containers
rm Remove one or more containers
rmi Remove one or more images
run Run a command in a new container
save Save one or more images to a tar archive (streamed to STDOUT by default)
search Search the Docker Hub for images
start Start one or more stopped containers
stats Display a live stream of container(s) resource usage statistics
stop Stop one or more running containers
tag Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
top Display the running processes of a container
unpause Unpause all processes within one or more containers
update Update configuration of one or more containers
version Show the Docker version information
wait Block until one or more containers stop, then print their exit codes

Run 'docker COMMAND --help' for more information on a command.
$ docker images
REPOSITORY      TAG      IMAGE ID      CREATED     SIZE
mariadb          10       1b3986d60f13   7 months ago  414MB
mariadb          latest   1b3986d60f13   7 months ago  414MB
redis            latest   62f1d3402b70   7 months ago  104MB
ubuntu           latest   d70eaf7277ea   7 months ago  72.9MB
mysql            8        db2b37ec6181   7 months ago  545MB
mysql            latest   db2b37ec6181   7 months ago  545MB
alpine           latest   d6e46aa2470d   8 months ago  5.57MB
postgres          12      492fb9ae4e7a   8 months ago  314MB
postgres          latest   c96fb8b6bc0d9   8 months ago  314MB
mongo             latest   ba0c2ff8bd362  8 months ago  492MB
weaveworks/scope 1.11.4  a082d248f0b39  22 months ago  78.5MB
quay.io/ansible/molecule 2.20  1171569d6ba4  2 years ago  704MB
$
```

The Katacoda Ubuntu Environment is a flexible single node environment. Users are connected to the environment as `root`. This provides them with full flexibility to install additional packages, explore the internals of Linux and experiment with new ideas.

The environment also comes with Docker, meaning additional containers can be pulled and access as and when required.

CONTINUE

```
Terminal
+ Your Interactive Bash Terminal.

$ docker container run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
b8dfde127a29: Full complete
Digest: sha256:9f6ad537c5132bcce57f7a0a20e317228d382c3cd61eda14650eec68b2b345c
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:
 1. The Docker client contacted the Docker daemon.
 2. 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/
$
```

NAMA : ANGELIA FRANSISKA NGALA

NIM : 185610038

The screenshot shows a Katacoda instance titled "Ubuntu 18.04 Instance". The terminal window displays the following text:

```
Hello from Docker!  
This message shows that your installation appears to be working correctly.  
To generate this message, Docker took the following steps:  
1. The Docker client contacted the Docker daemon.  
2. 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/  
$ docker run -it ubuntu bash  
root@7aa37c858a1b:/# whoami  
root  
root@7aa37c858a1b:/# cat /etc/issue  
cat: /etc/issue: No such file or directory  
root@7aa37c858a1b:/# cat /etc/issue  
Ubuntu 20.04.1 LTS \n \l  
root@7aa37c858a1b:/# exit  
exit  
$
```

CONTINUE

The screenshot shows a Katacoda instance titled "Ubuntu 18.04 Instance". The terminal window displays the following text:

```
-p, --publish list  
-P, --publish-all  
--read-only  
--restart string  
--rm  
--runtime string  
--security-opt list  
--shm-size bytes  
--sig-proxy  
--stop-signal string  
--stop-timeout int  
--storage-opt list  
--sysctl map  
--tmpfs list  
-t, --tty  
--ulimit ulimit  
-u, --user string  
--users string  
--uts string  
-v, --volume list  
--volume-driver string  
--volumes-from list  
-w, --workdir string  
$ docker images pull nginx  
"docker images" requires at most 1 argument.  
See 'docker images --help'.  
Usage: docker images [OPTIONS] [REPOSITORY[:TAG]]  
List images  
$
```

CONTINUE

NAMA : ANGELIA FRANSISKA NGALA

NIM : 185610038

```
$ docker images pull nginx
Using default tag: latest
latest: Pulling from library/nginx
69692152171a: Pull complete
30afc0b18f67: Pull complete
596b1d696923: Pull complete
febe5bd23e98: Pull complete
8283eee92e2f: Pull complete
351ad75a6cfa: Pull complete
Digest: sha256:6d75c99af15565a301e48297fa2d121e15d80ad526f8369c526324f0f7ccb750
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
$
```

CONTINUE

```
$ docker images pull nginx
Using default tag: latest
latest: Pulling from library/nginx
69692152171a: Pull complete
30afc0b18f67: Pull complete
596b1d696923: Pull complete
febe5bd23e98: Pull complete
8283eee92e2f: Pull complete
351ad75a6cfa: Pull complete
Digest: sha256:6d75c99af15565a301e48297fa2d121e15d80ad526f8369c526324f0f7ccb750
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
$ docker images ls
REPOSITORY          TAG      IMAGE ID      CREATED       SIZE
$ docker images
REPOSITORY          TAG      IMAGE ID      CREATED       SIZE
nginx              latest   d1a364dc548d  3 weeks ago   133MB
hello-world        latest   d1165f221234  3 months ago  13.3kB
mariadb            10      1b3986d60f13  7 months ago  414MB
mariadb            latest   1b3986d60f13  7 months ago  414MB
redis              latest   62f1d3402b78  7 months ago  104MB
ubuntu              latest   d70eaf7277ea  7 months ago  72.9MB
mysql              8       db2b37ec6181  7 months ago  545MB
mysql              latest   db2b37ec6181  7 months ago  545MB
alpine              latest   d6e46aa2470d  8 months ago  5.57MB
postgres            12      492fb9ae4e7a  8 months ago  314MB
postgres            latest   c96fb8b6bc0d9  8 months ago  314MB
mongo              latest   ba0c2ff8d362  8 months ago  492MB
weaveworks/scope   1.11.4  a082d48f0b39  22 months ago 78.5MB
quay.io/ansible/molecule  2.20  1171569d6ba4  2 years ago  704MB
$
```

CONTINUE

NAMA : ANGELIA FRANSISKA NGALA

NIM : 185610038

```
351ad75a6cfa: Pull complete
Digest: sha256:6d75c9af15565a301e48297fa2d121e15d80ad526f8369c526324f0f7ccb750
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
$ docker images ls
REPOSITORY          TAG      IMAGE ID      CREATED       SIZE
$ docker images
REPOSITORY          TAG      IMAGE ID      CREATED       SIZE
nginx              latest   d1a364dc548d  3 weeks ago  13.3MB
hello-world         latest   d1165f221234  3 months ago  13.3kB
mariadb             10      1b3986d60f13  7 months ago  414MB
mariadb             latest   1b3986d60f13  7 months ago  414MB
redis               latest   62f1d3402b78  7 months ago  104MB
ubuntu              latest   d70eaf7277ea  7 months ago  72.9MB
mysql               8       db2b37ec6181  7 months ago  545MB
mysql               latest   db2b37ec6181  7 months ago  545MB
alpine              latest   d6e46aa2470d  8 months ago  5.57MB
postgres            12      492fb9ae47ea  8 months ago  314MB
postgres            latest   c96fb8b6bc0d9  8 months ago  314MB
mongo               latest   ba0c2ff8d362  8 months ago  492MB
weaveworks/scope   1.11.4  a082d48f0b39  22 months ago  78.5MB
quay.io/ansible/molecule  2.20  1171569d6ba4  2 years ago  704MB
$ docker container run -d --name nginx-test -p 8080:80
"docker container run" requires at least 1 argument.
See 'docker container run --help'.
```

Usage: docker container run [OPTIONS] IMAGE [COMMAND] [ARG...]

Run a command in a new container
\$ docker container run -d --name nginx-test -p 8080:80 nginx
a9b8c6ee0d74fc61f041c97a14224314d1935fce087787759f7f67c0139aab71
\$

CONTINUE

```
351ad75a6cfa: Pull complete
Digest: sha256:6d75c9af15565a301e48297fa2d121e15d80ad526f8369c526324f0f7ccb750
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
$ docker images ls
REPOSITORY          TAG      IMAGE ID      CREATED       SIZE
$ docker images
REPOSITORY          TAG      IMAGE ID      CREATED       SIZE
nginx              latest   d1a364dc548d  3 weeks ago  13.3MB
hello-world         latest   d1165f221234  3 months ago  13.3kB
mariadb             10      1b3986d60f13  7 months ago  414MB
mariadb             latest   1b3986d60f13  7 months ago  414MB
redis               latest   62f1d3402b78  7 months ago  104MB
ubuntu              latest   d70eaf7277ea  7 months ago  72.9MB
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mysql               latest   db2b37ec6181  7 months ago  545MB
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postgres            latest   c96fb8b6bc0d9  8 months ago  314MB
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weaveworks/scope   1.11.4  a082d48f0b39  22 months ago  78.5MB
quay.io/ansible/molecule  2.20  1171569d6ba4  2 years ago  704MB
$ docker container run -d --name nginx-test -p 8080:80
"docker container run" requires at least 1 argument.
See 'docker container run --help'.
```

Usage: docker container run [OPTIONS] IMAGE [COMMAND] [ARG...]

Run a command in a new container
\$ docker container run -d --name nginx-test -p 8080:80 nginx
a9b8c6ee0d74fc61f041c97a14224314d1935fce087787759f7f67c0139aab71
\$ docker container ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
a9b8c6ee0d74 nginx "/docker-entrypoint..." 2 minutes ago Up 2 minutes 0.0.0.0:8080->80/tcp nginx-test
\$ ps ax

CONTINUE

NAMA : ANGELIA FRANSISKA NGALA

NIM : 185610038

The Katacoda Ubuntu Environment is a flexible single node environment. Users are connected to the environment as `root`. This provides them with full flexibility to install additional packages, explore the internals of Linux and experiment with new ideas.

The environment also comes with Docker, meaning additional containers can be pulled and access as and when required.

CONTINUE

```
0.0.0.0:8080->80/tcp    nginx-test
$ docker inspect nginx-test
[{"Id": "a9b8c6ee0d74fc61f041c97a14224314d1935fce087787759f7f67c0139aab71", "Created": "2021-06-19T18:41:03.085668557Z", "Path": "/docker-entrypoint.sh", "Args": ["nginx", "-g", "daemon off;"], "State": {"Status": "running", "Running": true, "Paused": false, "Restarting": false, "OOMKilled": false, "Dead": false, "Pid": 4455, "ExitCode": 0, "Error": "", "StartedAt": "2021-06-19T18:41:03.526149166Z", "FinishedAt": "0001-01-01T00:00:00Z"}, "Image": "sha256:d1a364dc548d5357f0da3268c888e1971bbdb957ee3f028fe7194f1d61c6fdee", "ResolvConfPath": "/var/lib/docker/containers/a9b8c6ee0d74fc61f041c97a14224314d1935fce087787759f7f67c0139aab71/resolv.conf", "HostnamePath": "/var/lib/docker/containers/a9b8c6ee0d74fc61f041c97a14224314d1935fce087787759f7f67c0139aab71/hostname", "HostsPath": "/var/lib/docker/containers/a9b8c6ee0d74fc61f041c97a14224314d1935fce087787759f7f67c0139aab71/hosts"}, {"Id": "787759f7f67c0139aab71", "Created": "2021-06-19T18:41:03.085668557Z", "Path": "/var/lib/docker/containers/a9b8c6ee0d74fc61f041c97a14224314d1935fce087787759f7f67c0139aab71/resolv.conf", "Args": ["nginx", "-g", "daemon off;"], "State": {"Status": "running", "Running": true, "Paused": false, "Restarting": false, "OOMKilled": false, "Dead": false, "Pid": 4455, "ExitCode": 0, "Error": "", "StartedAt": "2021-06-19T18:41:03.526149166Z", "FinishedAt": "0001-01-01T00:00:00Z"}, "Image": "sha256:d1a364dc548d5357f0da3268c888e1971bbdb957ee3f028fe7194f1d61c6fdee", "ResolvConfPath": "/var/lib/docker/containers/a9b8c6ee0d74fc61f041c97a14224314d1935fce087787759f7f67c0139aab71/resolv.conf", "HostnamePath": "/var/lib/docker/containers/a9b8c6ee0d74fc61f041c97a14224314d1935fce087787759f7f67c0139aab71/hostname", "HostsPath": "/var/lib/docker/containers/a9b8c6ee0d74fc61f041c97a14224314d1935fce087787759f7f67c0139aab71/hosts"}]
```

Bab ke 2

Pilih container fundamentals

Search results

Container Fundamentals (13 SCENARIOS)

Learn how to build, run and manage containers with Docker

Start Course

Docker Security Course (3 SCENARIOS)

This course contains labs on how to take advantage of Docker security features. Moreover, the labs will explain the strong security defaults in Docker for each feature

Start Course

Learn Docker & Containers (21 SCENARIOS)

This set of labs covers the foundations of Docker and running containers within your system.

Start Course

The Container Workshop (3 SCENARIOS)

Start Course

Lalu pilih playground dan tekan start

NAMA : ANGELIA FRANSISKA NGALA

NIM : 185610038

The screenshot shows a web browser window with four tabs open:

- angeliangala/185610038
- (83) WhatsApp
- Container Fundamentals using In
- Katacoda

The main content area displays the Katacoda logo and navigation links for "LEARN" and "CREATE". A blue banner at the top says "By loodse". Below it, the text "Learn how to build, run and manage containers with Docker" is visible. Four cards are listed:

- Playground**: Use Docker in a safe playground environment.
- Install Docker**: Installing docker to a VM.
- Our first container**: Describes how to create your first container.
- Run a Webapp with Docker**: Describes how to create your first container to run a webapp with Docker.

The screenshot shows a web browser window with four tabs open:

- angeliangala/185610038
- (83) WhatsApp
- Playground | loodse | Katacoda
- Katacoda

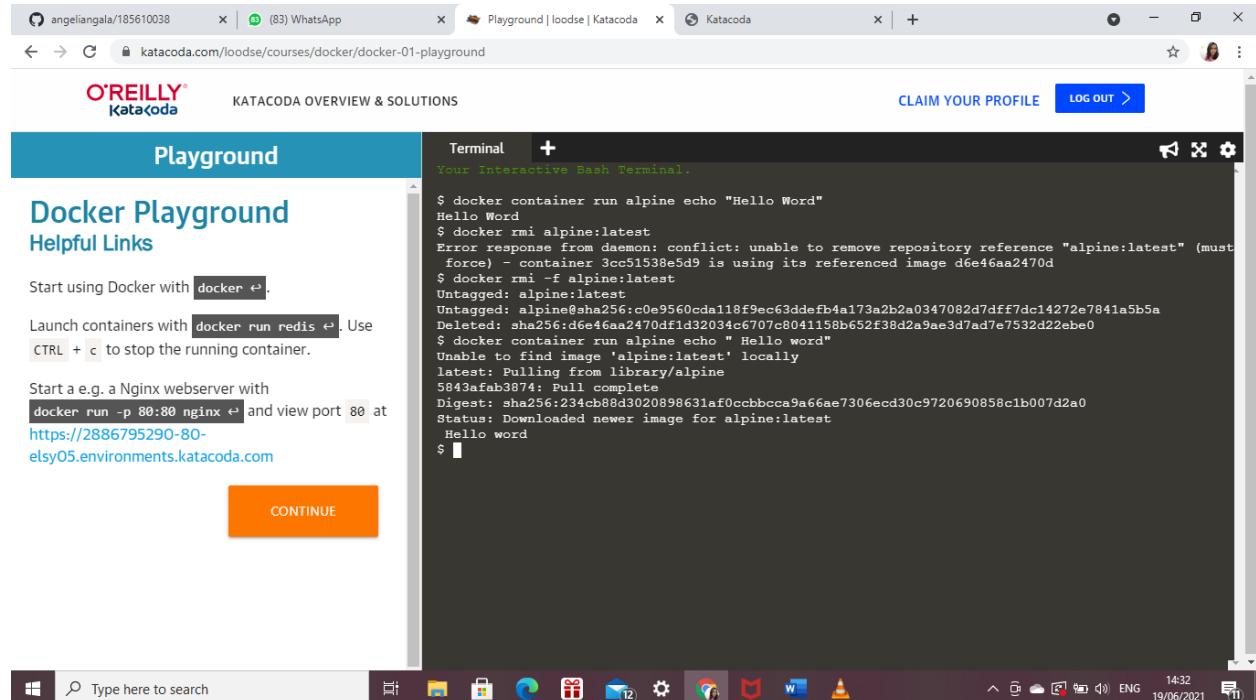
The main content area is titled "Playground" and "Docker Playground". It includes "Helpful Links" and instructions for starting Docker and launching containers. A terminal window on the right shows the output of the "docker version" command:

```
$ docker version
Client: Docker Engine - Community
 Version: 19.03.13
 API version: 1.40
 Go version: go1.13.15
 Git commit: 4494c46d9d
 Built: Wed Sep 16 17:02:36 2020
 OS/Arch: linux/amd64
 Experimental: false

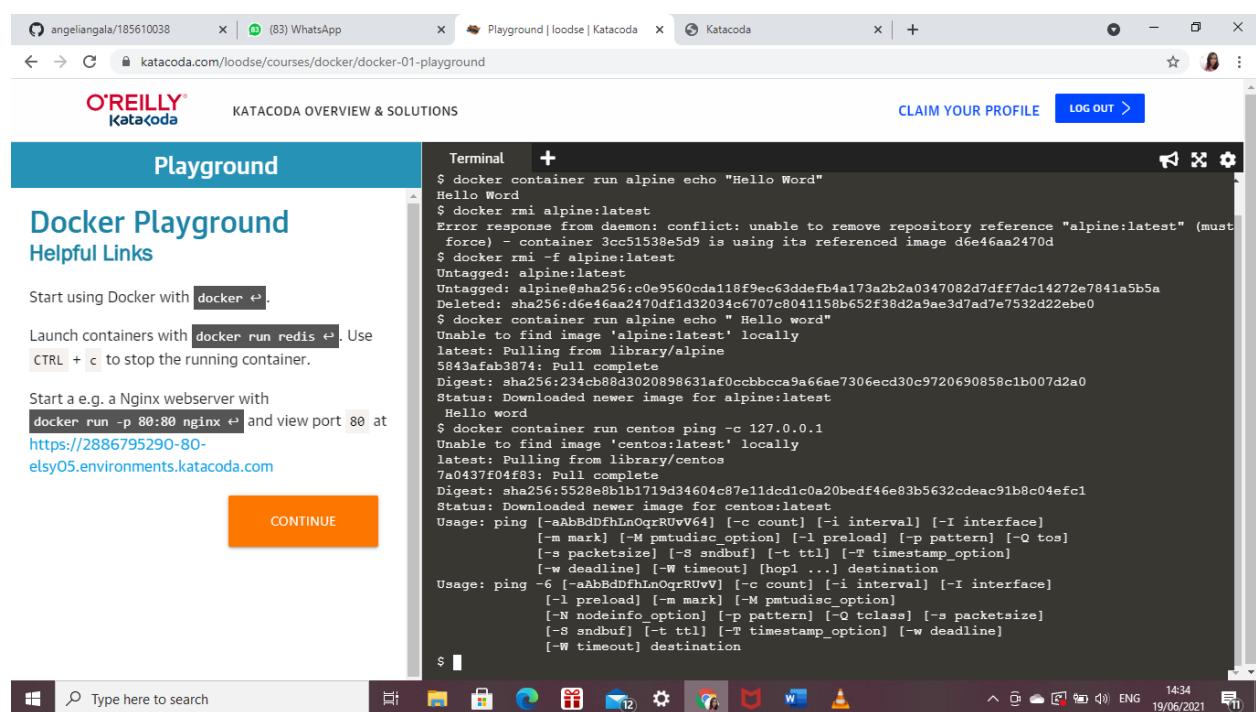
Server: Docker Engine - Community
 Engine:
 Version: 19.03.13
 API version: 1.40 (minimum version 1.12)
 Go version: go1.13.15
 Git commit: 4494c46d9d
 Built: Wed Sep 16 17:01:06 2020
 OS/Arch: linux/amd64
 Experimental: false
 containerd:
 Version: 1.3.7
 GitCommit: 8fba4e9a7d01810a393d5d25a3621dc101981175
 runc:
 Version: 1.0.0-rc10
 GitCommit: dc9208a3303feef5b3839f4323d9beb36df0a9dd
 docker-init:
 Version: 0.18.0
 GitCommit: fec3683
```

NAMA : ANGELIA FRANSISKA NGALA

NIM : 185610038



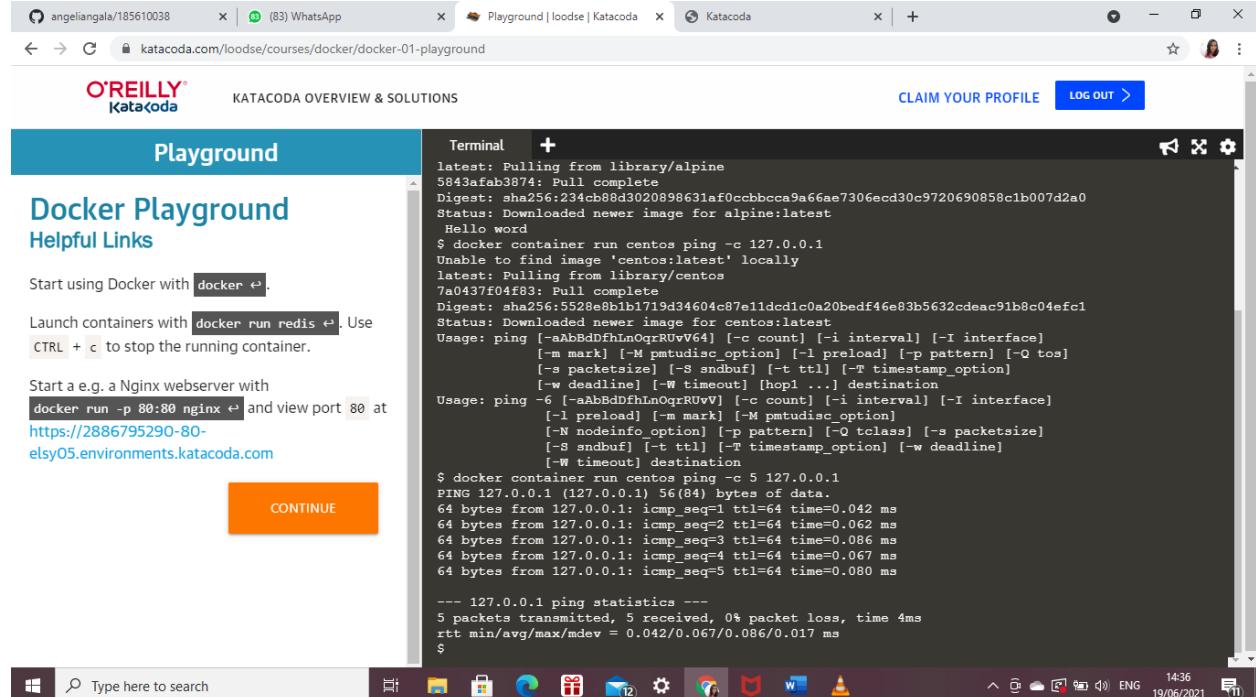
```
$ docker container run alpine echo "Hello Word"
Hello Word
$ docker rmi alpine:latest
Error response from daemon: conflict: unable to remove repository reference "alpine:latest" (must
force) - container 3cc51538e5d9 is using its referenced image d6e46aa2470d
$ docker rmi -f alpine:latest
Untagged: alpine:latest
Deleted: sha256:d6e46aa2470df1d32034c6707c8041158b652f38d2a9ae3d7ad7e7532d22eb0
$ docker container run alpine echo "Hello word"
Unable to find image 'alpine:latest' locally
latest: Pulling from library/alpine
5843afab3874: Full complete
Digest: sha256:234cb88d3020898631af0ccbcbca9a66ae7306ecd30c9720690858c1b007d2a0
Status: Downloaded newer image for alpine:latest
Hello word
$
```



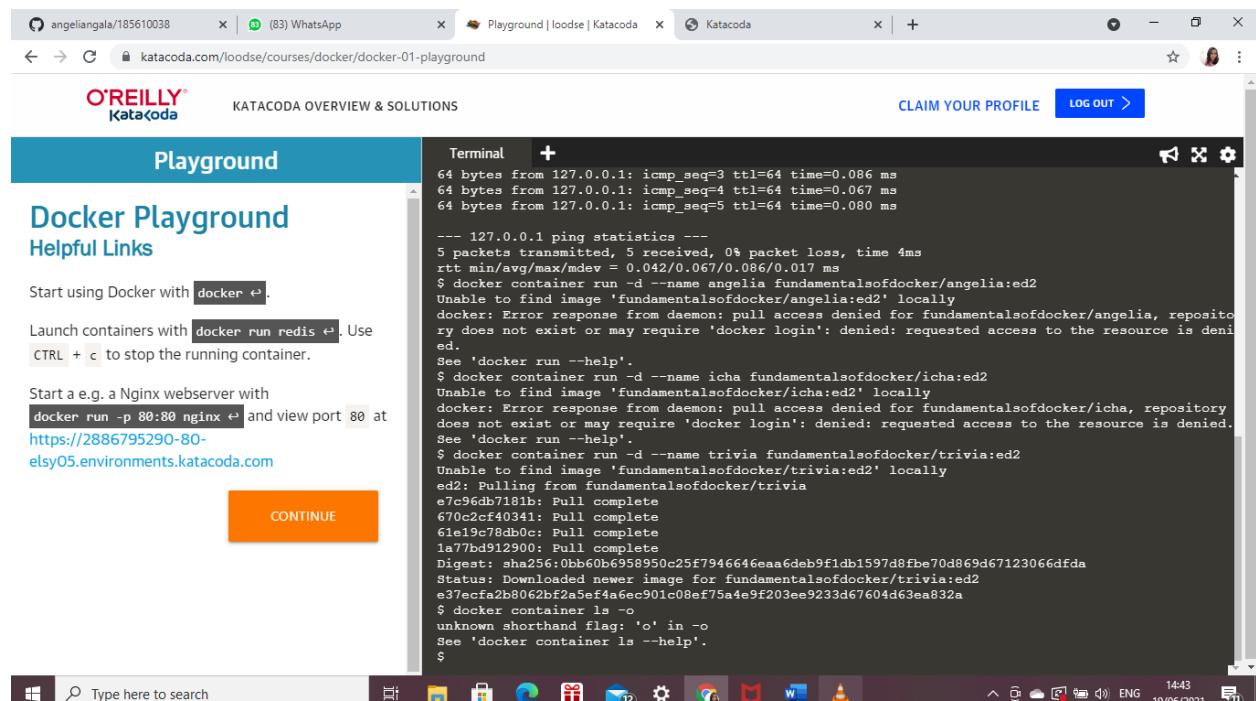
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$ docker container run alpine echo "Hello Word"
Hello Word
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Error response from daemon: conflict: unable to remove repository reference "alpine:latest" (must
force) - container 3cc51538e5d9 is using its referenced image d6e46aa2470d
$ docker rmi -f alpine:latest
Untagged: alpine:latest
Deleted: sha256:d6e46aa2470df1d32034c6707c8041158b652f38d2a9ae3d7ad7e7532d22eb0
$ docker container run alpine echo "Hello word"
Unable to find image 'alpine:latest' locally
latest: Pulling from library/alpine
5843afab3874: Full complete
Digest: sha256:234cb88d3020898631af0ccbcbca9a66ae7306ecd30c9720690858c1b007d2a0
Status: Downloaded newer image for alpine:latest
Hello word
$ docker container run centos ping -c 127.0.0.1
Unable to find image 'centos:latest' locally
latest: Pulling from library/centos
7a0437f04f83: Full complete
Digest: sha256:5528e8b1b1719d34604c87e11dc1c0a20bedf46e83b5632cdeac91b8c04efc1
Status: Downloaded newer image for centos:latest
Usage: ping [-aabBdfhLnQqrRUVv64] [-c count] [-i interval] [-I interface]
[-m mark] [-M pmtdisc_option] [-l preload] [-p pattern] [-Q tos]
[-s packetsize] [-S sndbuf] [-t ttl] [-T timestamp_option]
[-w deadline] [-W timeout] [hop1 ...] destination
7a0437f04f83: Full complete
Usage: ping [-6] [-aabBdfhLnQqrRUVv64] [-c count] [-i interval] [-I interface]
[-l preload] [-m mark] [-M pmtdisc_option]
[-N nodeinfo_option] [-p pattern] [-Q tclass] [-s packetsize]
[-S sndbuf] [-t ttl] [-T timestamp_option] [-w deadline]
[-W timeout] destination
$ .
```

NAMA : ANGELIA FRANSISKA NGALA

NIM : 185610038



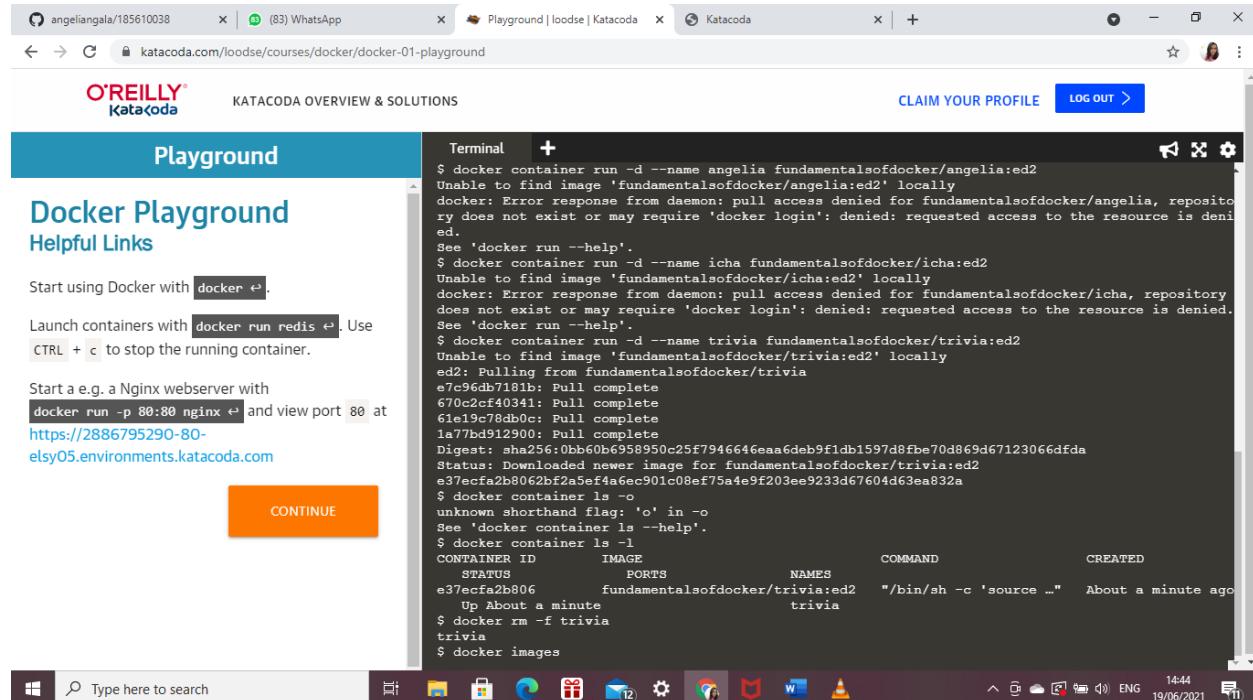
```
Terminal +  
latest: Pulling from library/alpine  
5843afab3874: Pull complete  
Digest: sha256:234cb88d3020898631af0ccbcbca9a66ae7306ecd30c9720690858c1b007d2a0  
Status: Downloaded newer image for alpine:latest  
Hello word  
$ docker container run centos ping -c 127.0.0.1  
Unable to find image 'centos:latest' locally  
latest: Pulling from library/centos  
7a043f04fb83: Pull complete  
Digest: sha256:5528e5b1b719d34604c87e11dc1c0a20bedf46e83b5632cdeac91b8c04efc1  
Status: Downloaded newer image for centos:latest  
Usage: ping [-aAbBdDfLnQqrRUVv64] [-c count] [-i interval] [-I interface]  
        [-m mark] [-M pmtdisc_option] [-l preload] [-p pattern] [-Q tos]  
        [-s packetsize] [-S sndbuf] [-t ttl] [-T timestamp_option]  
        [-w deadline] [-W timeout] [hop1 ...] destination  
Usage: ping -6 [-aAbBdDfLnQqrRUVv64] [-c count] [-i interval] [-I interface]  
        [-l preload] [-m mark] [-M pmtdisc_option]  
        [-N nodeinfo_option] [-p pattern] [-Q tclass] [-s packetsize]  
        [-S sndbuf] [-t ttl] [-T timestamp_option] [-w deadline]  
        [-W timeout] destination  
$ docker container run centos ping -c 5 127.0.0.1  
PING 127.0.0.1 (127.0.0.1) 56(84) bytes of data.  
64 bytes from 127.0.0.1: icmp_seq=1 ttl=64 time=0.042 ms  
64 bytes from 127.0.0.1: icmp_seq=2 ttl=64 time=0.062 ms  
64 bytes from 127.0.0.1: icmp_seq=3 ttl=64 time=0.086 ms  
64 bytes from 127.0.0.1: icmp_seq=4 ttl=64 time=0.067 ms  
64 bytes from 127.0.0.1: icmp_seq=5 ttl=64 time=0.080 ms  
--- 127.0.0.1 ping statistics ---  
5 packets transmitted, 5 received, 0% packet loss, time 4ms  
rtt min/avg/max/mdev = 0.042/0.067/0.086/0.017 ms  
$
```



```
Terminal +  
64 bytes from 127.0.0.1: icmp_seq=3 ttl=64 time=0.086 ms  
64 bytes from 127.0.0.1: icmp_seq=4 ttl=64 time=0.067 ms  
64 bytes from 127.0.0.1: icmp_seq=5 ttl=64 time=0.080 ms  
--- 127.0.0.1 ping statistics ---  
5 packets transmitted, 5 received, 0% packet loss, time 4ms  
rtt min/avg/max/mdev = 0.042/0.067/0.086/0.017 ms  
$ docker container run -d --name angelia fundamentalsofdocker/angelia:ed2  
Unable to find image 'fundamentalsofdocker/angelia:ed2' locally  
docker: Error response from daemon: pull access denied for fundamentalsofdocker/angelia, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.  
See 'docker run --help'.  
$ docker container run -d --name icha fundamentalsofdocker/icha:ed2  
Unable to find image 'fundamentalsofdocker/icha:ed2' locally  
docker: Error response from daemon: pull access denied for fundamentalsofdocker/icha, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.  
See 'docker run --help'.  
$ docker container run -d --name trivia fundamentalsofdocker/trivia:ed2  
Unable to find image 'fundamentalsofdocker/trivia:ed2' locally  
ed2: Pulling from fundamentalsofdocker/trivia  
e7c96db7181b: Pull complete  
670c2cf40341: Pull complete  
61e19c78db0c: Pull complete  
la77bd912900: Pull complete  
Digest: sha256:0bb60b6958950c25f7946646eaa6deb9fdb1597d8fbe70d869d67123066dfda  
Status: Downloaded newer image for fundamentalsofdocker/trivia:ed2  
e37ecfa2b8062bf2a5ef4a6ec901c08ef75a4e9f203ee9233d67604d63ea832a  
$ docker container ls -a  
unknown shorthand flag: 'o' in '-o'  
See 'docker container ls --help'.  
$
```

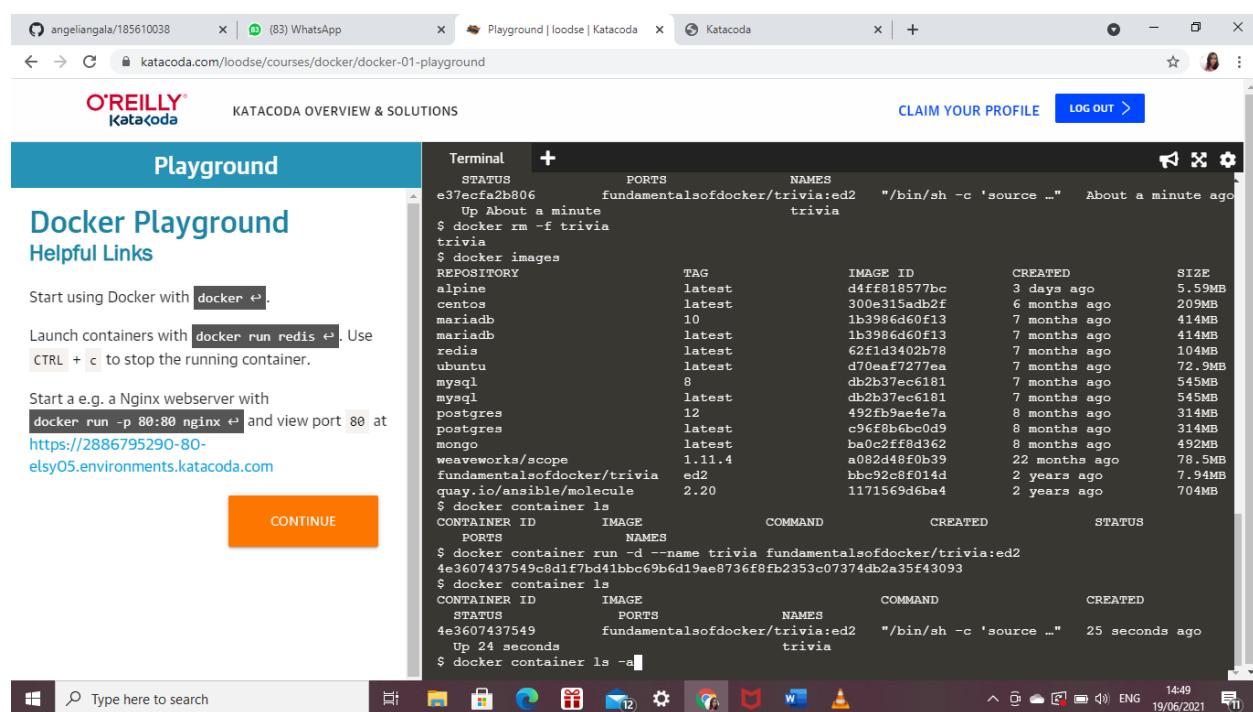
NAMA : ANGELIA FRANSISKA NGALA

NIM : 185610038



```
$ docker container run -d --name angelia fundamentalsofdocker/angelia:ed2
Unable to find image 'fundamentalsofdocker/angelia:ed2' locally
docker: Error response from daemon: pull access denied for fundamentalsofdocker/angelia, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.
$ docker container run -d --name icha fundamentalsofdocker/icha:ed2
Unable to find image 'fundamentalsofdocker/icha:ed2' locally
docker: Error response from daemon: pull access denied for fundamentalsofdocker/icha, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.
$ docker container run -d --name trivia fundamentalsofdocker/trivia:ed2
Unable to find image 'fundamentalsofdocker/trivia:ed2' locally
ed2: Pulling from fundamentalsofdocker/trivia
e7c96db7181b: Pull complete
670c2cf40341: Pull complete
61e19c78db0c: Pull complete
la77bd912900: Pull complete
Digest: sha256:0bb60b695895025f7946646eaa6deb9f1db1597d8fbe70d869d67123066dfda
Status: Downloaded newer image for fundamentalsofdocker/trivia:ed2
e37ecfa2b8062bf2a5ef4a6ec901c08ef75a4e9f203ee9233d67604d63ea832a
$ docker container ls -o
unknown shorthand flag: 'o' in -o
See 'docker container ls --help'.
$ docker container ls -l
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS             NAMES
e37ecfa2b806        fundamentalsofdocker/trivia:ed2   "/bin/sh -c 'source ..."   About a minute ago
Up About a minute          trivia
$ docker rm -f trivia
trivia
$ docker images
```

CONTINUE



```
STATUS           PORTS      NAMES
e37ecfa2b806    fundamentalsofdocker/trivia:ed2   "/bin/sh -c 'source ..."   About a minute ago
Up About a minute          trivia
$ docker rm -f trivia
trivia
$ docker images
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
alpine              latest   d4ff818577bc  3 days ago   5.59MB
centos              latest   300e315adbf2  6 months ago  209MB
mariadb              10      1b3986d60f13  7 months ago  414MB
mariadb              latest   1b3986d60f13  7 months ago  414MB
redis                latest   62ff1d3402b78  7 months ago  104MB
ubuntu              latest   d70eaf7277ea  7 months ago  72.9MB
mysql                8       db2b37ecc6181  7 months ago  545MB
mysql                latest   db2b37ecc6181  7 months ago  545MB
postgres              12      492fb9ae47a   8 months ago  314MB
postgres              latest   c96ff8b6bc0d9  8 months ago  314MB
mongo                latest   ba0c2cff8d362  8 months ago  492MB
weaveworks/scrape    1.11.4   a082d48f0b39  22 months ago  78.5MB
fundamentalsofdocker/trivia  ed2     bbc92c8f014d  2 years ago   7.94MB
quay.io/ansible/molecule  2.20   1171569d6ba4  2 years ago   704MB
$ docker container ls
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS             NAMES
$ docker container run -d --name trivia fundamentalsofdocker/trivia:ed2
4e3607437549c8d1f7bd41bbc69b6d19ae8736f8fb2353c07374db2a35f43093
$ docker container ls
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS             NAMES
4e3607437549        fundamentalsofdocker/trivia:ed2   "/bin/sh -c 'source ..."   25 seconds ago
Up 24 seconds          trivia
$ docker container ls -a
```

CONTINUE

NAMA : ANGELIA FRANSISKA NGALA

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```
stop one or more running containers
Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
Display the running processes of a container
Unpause all processes within one or more containers
Update configuration of one or more containers
Show the Docker version information
Wait until one or more containers stop, then print their exit codes

Run 'docker COMMAND --help' for more information on a command.

$ docker container ls -q
4e3607437549
$ docker container ls -h
Flag shorthand -h has been deprecated, please use --help

Usage: docker container ls [OPTIONS]

List containers

Aliases:
  ls, ps, list

Options:
  -a, --all          Show all containers (default shows just running)
  -f, --filter filter
  --format string   Pretty-print containers using a Go template
  -n, --last int    Show n last created containers (includes all states) (default -1)
  -l, --latest       Show the latest created container (includes all states)
  --no-trunc        Don't truncate output
  -q, --quiet        Only display numeric IDs
  -s, --size         Display total file sizes
$
```

CONTINUE

```
$ docker container ls -q
4e3607437549
$ docker container ls -h
Flag shorthand -h has been deprecated, please use --help

Usage: docker container ls [OPTIONS]

List containers

Aliases:
  ls, ps, list

Options:
  -a, --all          Show all containers (default shows just running)
  -f, --filter filter
  --format string   Pretty-print containers using a Go template
  -n, --last int    Show n last created containers (includes all states) (default -1)
  -l, --latest       Show the latest created container (includes all states)
  --no-trunc        Don't truncate output
  -q, --quiet        Only display numeric IDs
  -s, --size         Display total file sizes
$ docker container rm -f $(docker container ls -a -q)
4e3607437549
26e3d3f0a0da
b830ac6312db
47d92d60c3cd
3cc51538e5d9
$ docker container ls
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS
           NAMES
$
```

CONTINUE

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OREILLY
Katacoda

KATACODA OVERVIEW & SOLUTIONS

Playground

Docker Playground

Helpful Links

Start using Docker with `docker <command>`.

Launch containers with `docker run redis <command>`. Use `CTRL + c` to stop the running container.

Start a e.g. a Nginx webserver with `docker run -p 80:80 nginx <command>` and view port 80 at <https://2886795290-80-elsy05.environments.katacoda.com>

CONTINUE

```
Terminal
inspect
kill
logs
ls
pause
port
prune
rename
restart
rm
run
start
stats
stop
top
unpause
update
wait

Display detailed information on one or more containers
Kill one or more running containers
Fetch the logs of a container
List containers
Pause all processes within one or more containers
List port mappings or a specific mapping for the container
Remove all stopped containers
Rename a container
Restart one or more containers
Remove one or more containers
Run a command in a new container
Start one or more stopped containers
Display a live stream of container(s) resource usage statistics
Stop one or more running containers
Display the running processes of a container
Unpause all processes within one or more containers
Update configuration of one or more containers
Block until one or more containers stop, then print their exit codes

Run 'docker container COMMAND --help' for more information on a command.

$ docker container ls
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS
PORTS              NAMES
$ docker container run -d --name trivia fundamentalsofdocker/trivia:ed2
d045ed0fceff3e30e487267189f2cd19efceeb69a77cdf2909d44f8f85a57a0
$ docker container ls
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS
STATUS            PORTS              NAMES
d045ed0fceff      fundamentalsofdocker/trivia:ed2   "/bin/sh -c 'source ..."   10 seconds ago
Up 9 seconds          trivia

$
```

Type here to search

15:04 19/06/2021

OREILLY
Katacoda

KATACODA OVERVIEW & SOLUTIONS

Playground

Docker Playground

Helpful Links

Start using Docker with `docker <command>`.

Launch containers with `docker run redis <command>`. Use `CTRL + c` to stop the running container.

Start a e.g. a Nginx webserver with `docker run -p 80:80 nginx <command>` and view port 80 at <https://2886795290-80-elsy05.environments.katacoda.com>

CONTINUE

```
Terminal
unpause
update
wait

Unpause all processes within one or more containers
Update configuration of one or more containers
Block until one or more containers stop, then print their exit codes

Run 'docker container COMMAND --help' for more information on a command.

$ docker container ls
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS
PORTS              NAMES
$ docker container run -d --name trivia fundamentalsofdocker/trivia:ed2
d045ed0fceff3e30e487267189f2cd19efceeb69a77cdf2909d44f8f85a57a0
$ docker container ls
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS
STATUS            PORTS              NAMES
d045ed0fceff      fundamentalsofdocker/trivia:ed2   "/bin/sh -c 'source ..."   10 seconds ago
Up 9 seconds          trivia

$ docker container stop trivia
No command 'doctor' found, did you mean:
Command 'docker' from package 'docker.io' (universe)
Command 'dotter' from package 'acedb-other-dotter' (universe)
doctor: command not found
$ docker container stop trivia
trivia
$ docker container ps
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS
PORTS              NAMES
$ docker container ls -a
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS
PORTS              NAMES
d045ed0fceff      fundamentalsofdocker/trivia:ed2   "/bin/sh -c 'source ..."   About a minute ago
Exited (137) 44 seconds ago          trivia

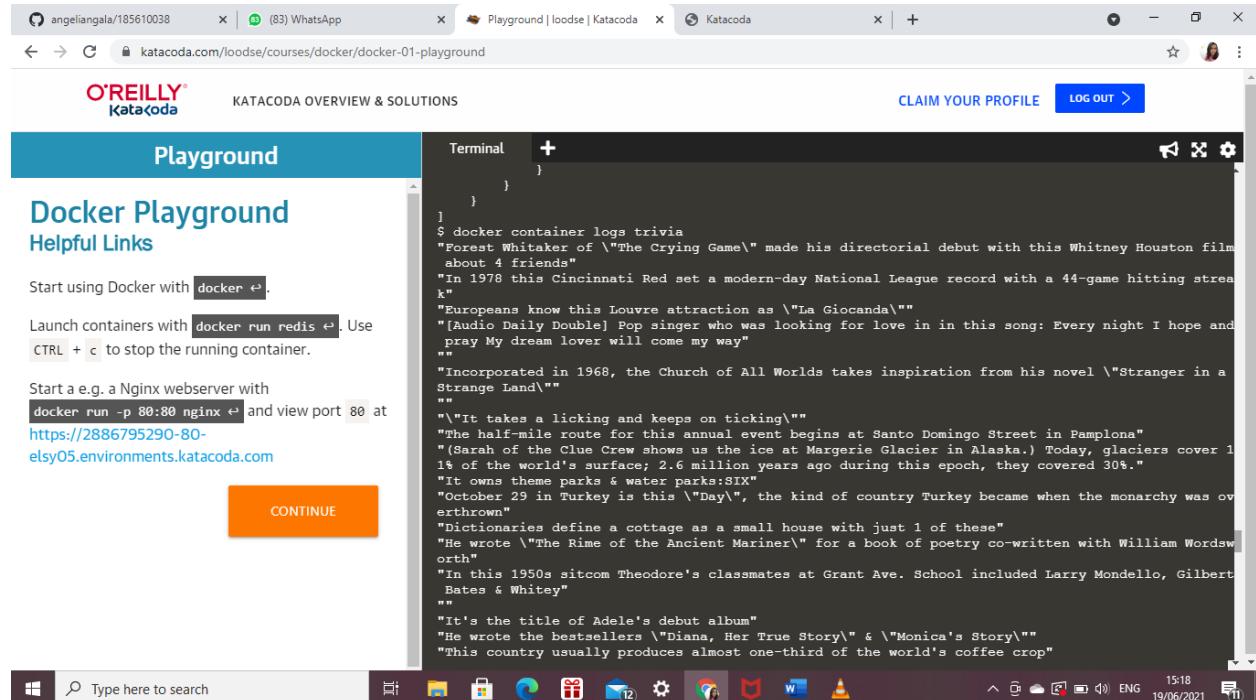
$
```

Type here to search

15:06 19/06/2021

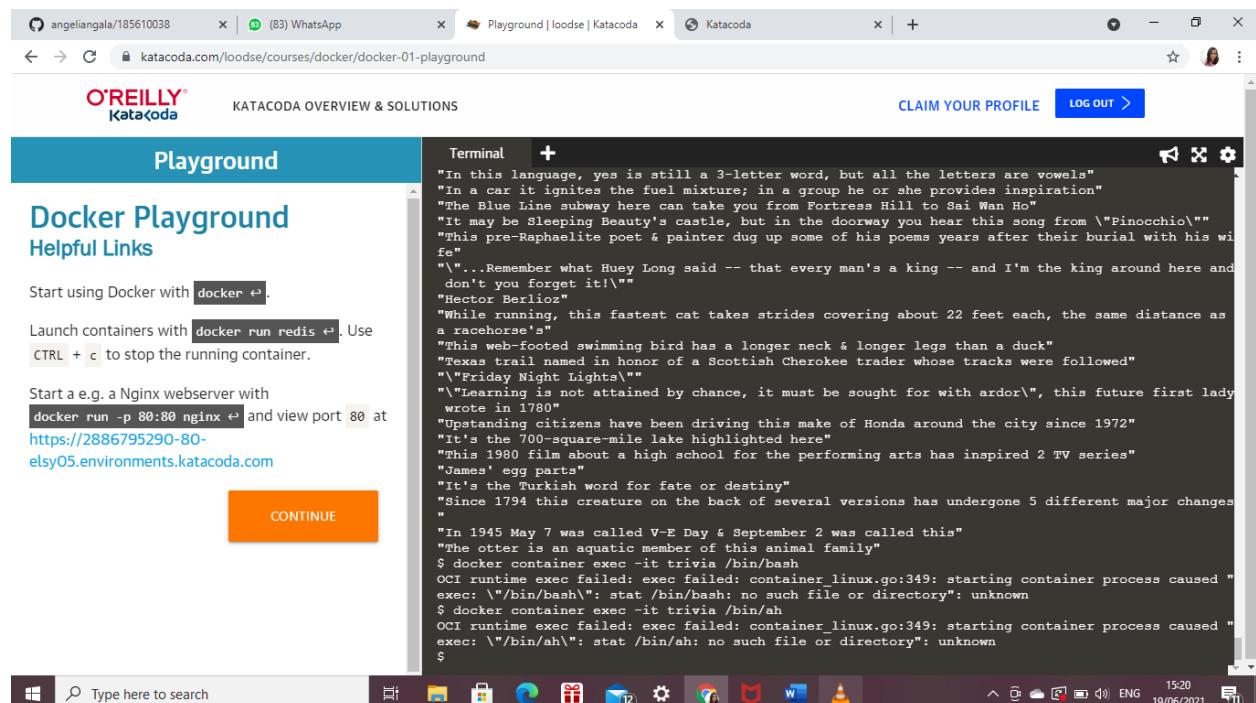
NAMA : ANGELIA FRANSISKA NGALA

NIM : 185610038



The screenshot shows a web browser with multiple tabs open. The main content is the 'Docker Playground' on Katacoda. On the right, there's a terminal window with the following text:

```
        }
    }
]
$ docker container logs trivia
"Forest Whitaker of \"The Crying Game\" made his directorial debut with this Whitney Houston film
about 4 friends"
"In 1978 this Cincinnati Red set a modern-day National League record with a 44-game hitting streak"
"Europeans know this Louvre attraction as \"La Gioconda\""
"[Audio Daily Double] Pop singer who was looking for love in in this song: Every night I hope and
pray My dream lover will come my way"
"""
"Incorporated in 1968, the Church of All Worlds takes inspiration from his novel \"Stranger in a
Strange Land\""
"""
"It takes a licking and keeps on ticking"
"The half-mile route for this annual event begins at Santo Domingo Street in Pamplona"
"(Sarah of the Clue Crew shows us the ice at Margerie Glacier in Alaska.) Today, glaciers cover 1
1% of the world's surface; 2.6 million years ago during this epoch, they covered 30%."
"It owns theme parks & water parks:SIX"
"October 29 in Turkey is this \"Day\", the kind of country Turkey became when the monarchy was overthrown"
"Dictionarys define a cottage as a small house with just 1 of these"
"He wrote \"The Rime of the Ancient Mariner\" for a book of poetry co-written with William Wordsworth"
"In this 1950s sitcom Theodore's classmates at Grant Ave. School included Larry Mondello, Gilbert
Bates & Whitey"
"""
"It's the title of Adele's debut album"
"He wrote the bestsellers \"Diana, Her True Story\" & \"Monica's Story\""
"This country usually produces almost one-third of the world's coffee crop"
```



The screenshot shows a second instance of the Docker Playground on Katacoda. The terminal window contains the same trivia text as the first screenshot.

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The screenshot shows a web-based Docker playground interface. At the top, there are tabs for WhatsApp, Katacoda, and another Katacoda tab. The main content area has a header "Playground" and "Docker Playground". Below that is a "Helpful Links" section with instructions for using Docker and running containers. A large orange "CONTINUE" button is visible. To the right is a terminal window displaying a poem about James' egg parts, which is a Turkish word for fate or destiny. The poem includes several lines of text about the history and meaning of the word.

IMAGE

The screenshot shows a web-based Docker documentation page for building container images. At the top, there are tabs for WhatsApp, Docker Hub, Katacoda, Assignment, and another Katacoda tab. The main content area has a header "Building Container Images" and a "Step 4 of 6" progress bar. It includes a "Task" section with instructions on how to define the command that launches the application using a CMD line in a Dockerfile. Below that is a "Protip" section with a note about an alternative approach to CMD. A "Dockerfile" editor pane shows a Dockerfile with commands to copy an index.html file from the host to the container and to expose port 80. A terminal window at the bottom shows the output of a docker build command for a my-nginx-image, which successfully creates a 3.072kB image from the nginx:1.11-alpine base image.

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The screenshot shows a web-based Dockerfile editor interface. On the left, there's a sidebar with sections like 'Building Container Images', 'Task', and 'Protip'. The main area has tabs for 'Dockerfile' and 'Terminal'. The 'Dockerfile' tab contains the following code:

```
1 # This is your Editor pane. Write the Dockerfile here and
2 # use the command line to execute commands
3 FROM nginx:1.11-alpine
4 COPY index.html /usr/share/nginx/html
5 EXPOSE 80
6 CMD ["nginx", "-g", "daemon off;"]
```

The 'Terminal' tab shows the build process:

```
--> Running in d0cb29d95eb8
Removing intermediate container d0cb29d95eb8
--> 64c4426310f5
Step 4/4 : CMD ["nginx", "-g", "daemon off;"]
--> Running in 29c4f51e84df
Removing intermediate container 29c4f51e84df
--> 01a909414d89
Successfully built 01a909414d89
Successfully tagged my-nginx-image:latest
$ docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
my-nginx-image  latest   01a909414d89  25 minutes ago  54.3MB
redis           latest   4760dc956b2d  3 years ago   107MB
ubuntu          latest   f975c5035748  3 years ago   112MB
alpine          latest   3fd9065ea0f02  3 years ago   4.14MB
nginx           1.11-alpine  bedecef106cc  4 years ago   54.3MB
```

At the bottom, there's a Windows taskbar with icons for File Explorer, Task View, Start, and others.

This screenshot is nearly identical to the one above, showing the same Dockerfile content and terminal output. The terminal shows the successful build of the Docker image and lists the available Docker images. The Windows taskbar at the bottom is also present.

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DOCKER PLAYGROUND

The screenshot shows the Docker Playground landing page. On the left, there's a sidebar with "Helpful Links" and a "CONTINUE" button. On the right, a terminal window displays the following Docker commands and their output:

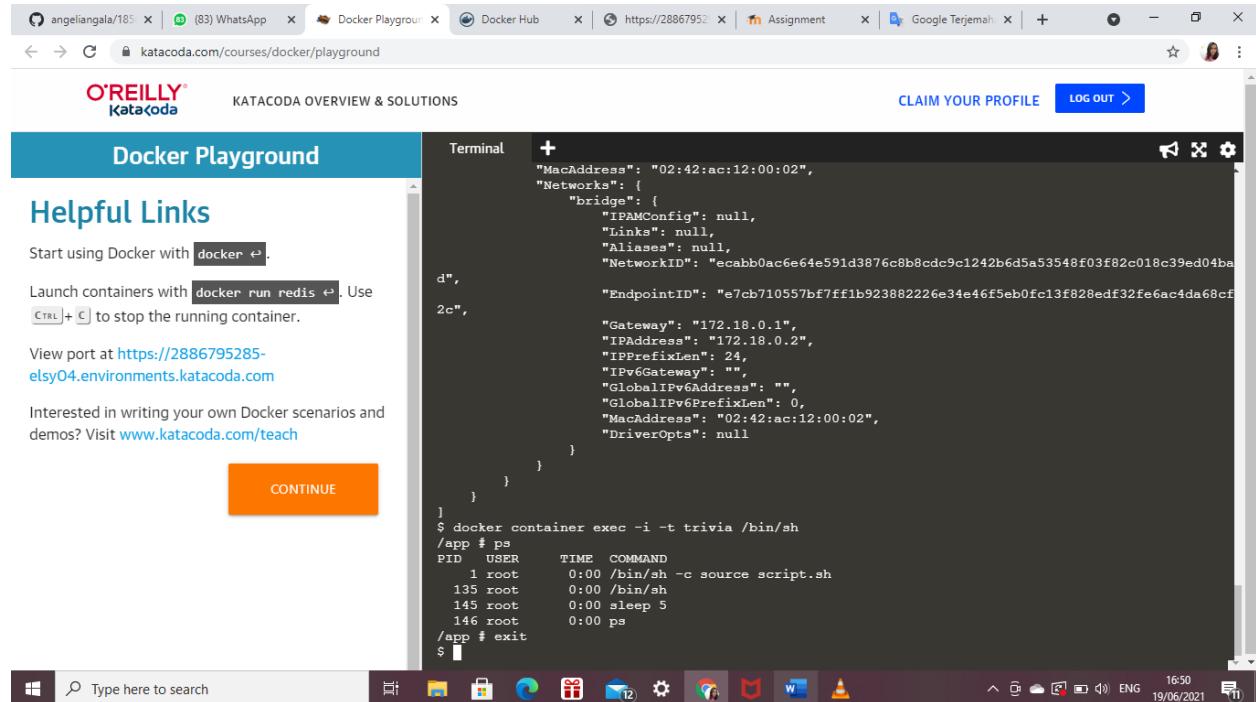
```
$ docker container run -d --name trivia fundamentalsofdocker/trivia:ed2
Unable to find image 'fundamentalsofdocker/trivia:ed2' locally
ed2: Pulling from fundamentalsofdocker/trivia
e7c96db7181b: Pull complete
670c2cf40341: Pull complete
6e1e9c78db0c: Pull complete
la77bd912900: Pull complete
Digest: sha256:0bb60b6958950c25f7946646eaa6deb9f1db1597d8fbe70d869d67123066dfda
Status: Downloaded newer image for fundamentalsofdocker/trivia:ed2
7c255e4c833108eb99725518b9ea3add12880304fac0835eac1065267abaf2ab
$ docker images
REPOSITORY          TAG      IMAGE ID      CREATED       SIZE
fundamentalsofdocker/trivia   ed2      bbc92c8f014d  2 years ago    7.94MB
redis               latest   4760dc956b2d  3 years ago    107MB
ubuntu              latest   f575c5035748  3 years ago    112MB
alpine              latest   3fd906seaf02  3 years ago    4.14MB
$
```

The screenshot shows the Docker Playground landing page. On the left, there's a sidebar with "Helpful Links" and a "CONTINUE" button. On the right, a terminal window displays the following Docker inspect command output:

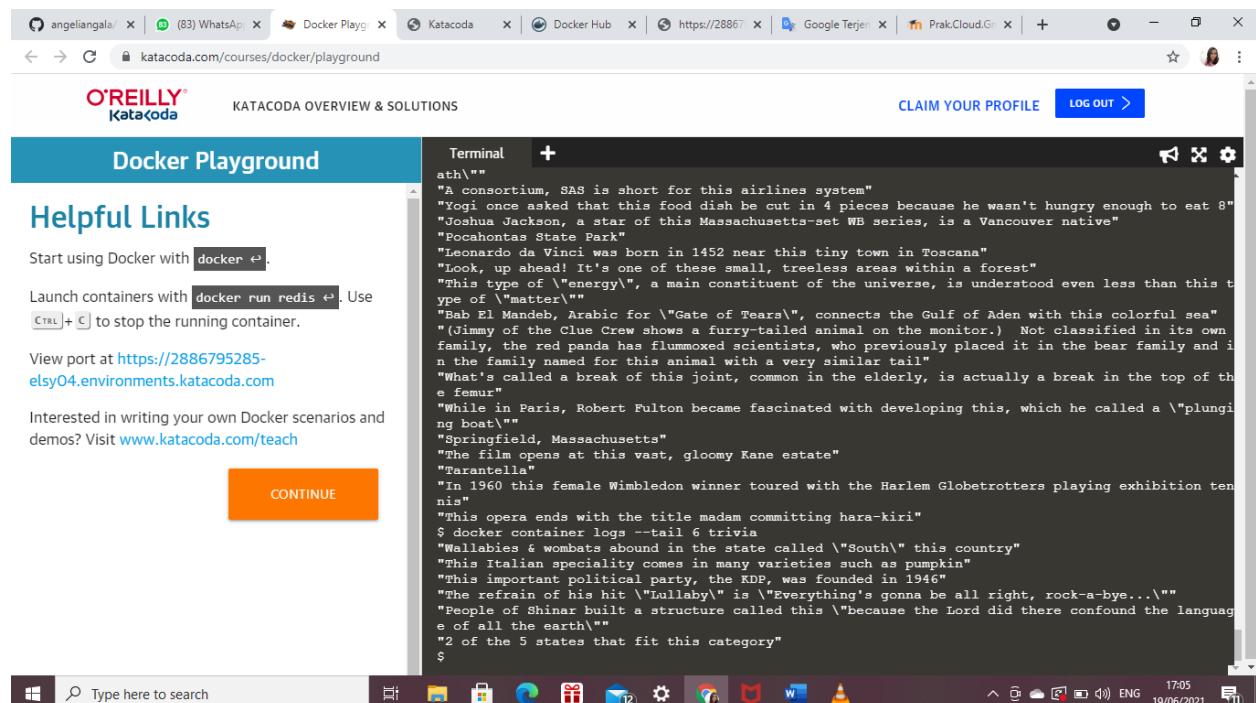
```
$ docker container inspect trivia
[{"Id": "7c255e4c833108eb99725518b9ea3add12880304fac0835eac1065267abaf2ab", "Created": "2021-06-19T21:46:32.432672746Z", "Path": "/bin/sh", "Args": ["-c", "source script.sh"], "State": {"Status": "running", "Running": true, "Paused": false, "Restarting": false, "OOMKilled": false, "Dead": false, "Pid": 536, "ExitCode": 0, "Error": "", "StartedAt": "2021-06-19T21:46:32.808652678Z", "FinishedAt": "0001-01-01T00:00:00Z"}, "Image": "sha256:bbc92c8f014d60507a4b6035efbee312b134e9f5c03c21cc646df9a80f25c2b6", "ResolvConfigPath": "/var/lib/docker/containers/7c255e4c833108eb99725518b9ea3add12880304fac0835eac1065267abaf2ab/resolv.conf", "HostnamePath": "/var/lib/docker/containers/7c255e4c833108eb99725518b9ea3add12880304fac0835eac1065267abaf2ab/hostname", "HostsPath": "/var/lib/docker/containers/7c255e4c833108eb99725518b9ea3add12880304fac0835eac1065267abaf2abhosts", "LogPath": "/var/lib/docker/containers/7c255e4c833108eb99725518b9ea3add12880304fac0835eac1065267abaf2ab/7c255e4c833108eb99725518b9ea3add12880304fac0835eac1065267abaf2ab-json.log", "Name": "trivia"}
```

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NIM : 185610038



```
"MacAddress": "02:42:ac:12:00:02",
"Networks": {
    "bridge": {
        "IPAMConfig": null,
        "Links": null,
        "Aliases": null,
        "NetworkID": "ecabb0ac6e64e591d3876c8b8cdc9c1242b6d5a53548f03f82c018c39ed04ba",
        "EndpointID": "e7cb710557bf7ff1b923802226e34e46f5eb0fc13f828edf32fe6ac4da68cf",
        "Gateway": "172.18.0.1",
        "IPAddress": "172.18.0.2",
        "IPPrefixLen": 24,
        "IPv6Gateway": "",
        "GlobalIPv6Address": "",
        "GlobalIPv6PrefixLen": 0,
        "MacAddress": "02:42:ac:12:00:02",
        "DriverOpts": null
    }
}
]
$ docker container exec -i -t trivia /bin/sh
/app # ps
PID  USER      TIME  COMMAND
  1 root      0:00 /bin/sh -c source script.sh
 135 root      0:00 /bin/sh
 145 root      0:00 sleep 5
 146 root      0:00 ps
/app # exit
$
```



```
ath\""
"A consortium, SAS is short for this airlines system"
"Yogi once asked that this food dish be cut in 4 pieces because he wasn't hungry enough to eat 8"
"Joshua Jackson, a star of this Massachusetts-set WB series, is a Vancouver native"
"Pocahontas State Park"
"Leonardo da Vinci was born in 1452 near this tiny town in Toscana"
"Look, up ahead! It's one of these small, treeless areas within a forest"
"This type of \"energy\", a main constituent of the universe, is understood even less than this type of \"matter\""
"Baby El Mandeb, Arabic for \"Gate of Tears!\", connects the Gulf of Aden with this colorful sea"
"(Jimmy of the Clue Crew shows a fury-tailed animal on the monitor.) Not classified in its own family, the red panda has flummoxed scientists, who previously placed it in the bear family and in the family named for this animal with a very similar tail"
"What's called a break of this joint, common in the elderly, is actually a break in the top of the femur"
"While in Paris, Robert Fulton became fascinated with developing this, which he called a \"plunging boat\""
"Springfield, Massachusetts"
"The film opens at this vast, gloomy Kane estate"
"Tarantella"
"In 1960 this female Wimbledon winner toured with the Harlem Globetrotters playing exhibition tennis"
"This opera ends with the title madam committing hara-kiri"
$ docker container logs --tail 6 trivia
"Wallabies & wombats abound in the state called \"South\" this country"
"This Italian speciality comes in many varieties such as pumpkin"
"This important political party, the KDP, was founded in 1946"
"The refrain of his hit \"Lullaby\" is \"Everything's gonna be all right, rock-a-bye...\""
"People of Shinar built a structure called this \"because the Lord did there confound the language of all the earth\""
"2 of the 5 states that fit this category"
$
```

NAMA : ANGELIA FRANSISKA NGALA

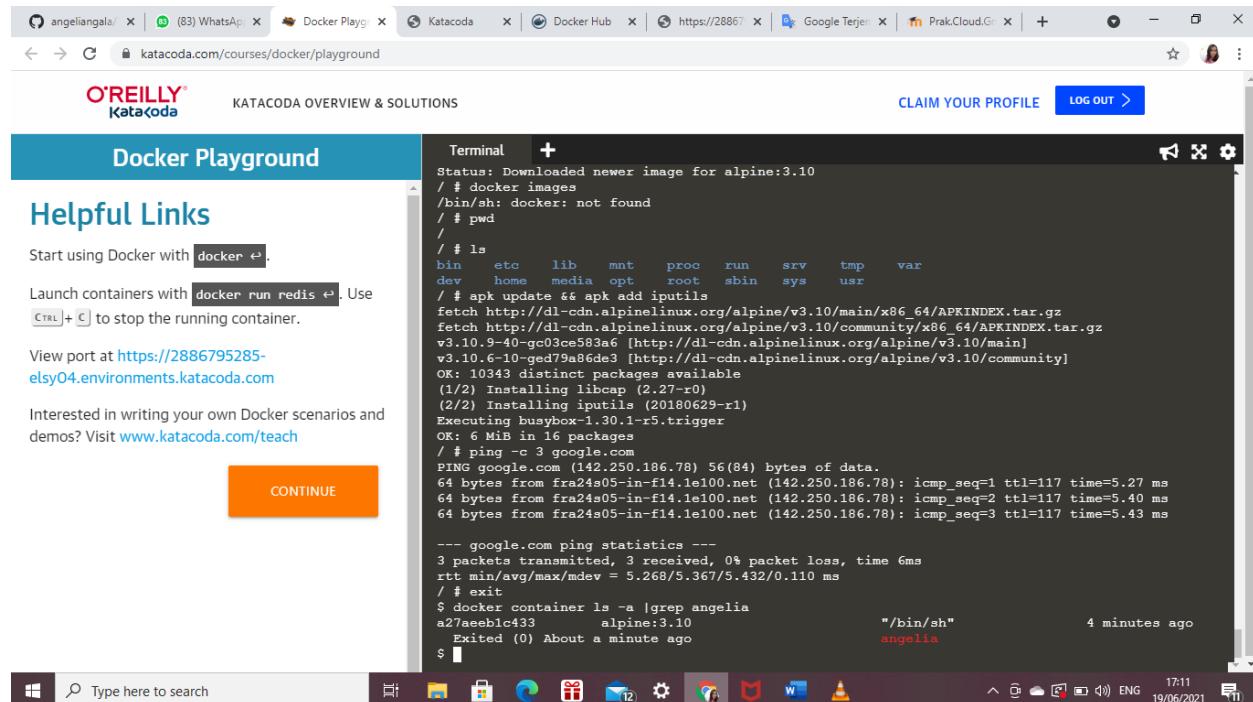
NIM : 185610038

```
"What's called a break of this joint, common in the elderly, is actually a break in the top of the femur"
"While in Paris, Robert Fulton became fascinated with developing this, which he called a \"plunging boat\""
"Springfield, Massachusetts"
"The film opens at this vast, gloomy Kane estate"
"In 1960 this female Wimbledon winner toured with the Harlem Globetrotters playing exhibition tennis"
"This opera ends with the title madam committing hara-kiri"
$ docker container logs --tail 6 trivia
"Wallabies & wombats abound in the state called \"South\" this country"
"This Italian speciality comes in many varieties such as pumpkin"
"This important political party, the KDP, was founded in 1946"
"The refrain of his hit \"Lullaby\" is \"Everything's gonna be all right, rock-a-bye...\""
"People of Shinar built a structure called this \"because the Lord did there confound the language of all the earth\""
"2 of the 5 states that fit this category"
$ docker container run -it --name angelia alpine:3.10 /bin/sh
Unable to find image 'alpine:3.10' locally
3.10: Pulling from library/alpine
396c31837116: Pull complete
Digest: sha256:451eee8bedcb2f029756dc3e9d73bab0e7943c1ac55cff3a4861c52a0fdd3e98
Status: Downloaded newer image for alpine:3.10
/ # docker images
/bin/sh: docker: not found
/ # pwd
/
/ # ls
bin etc lib mnt proc run srv tmp var
dev home media opt root sbin sys usr
/ # ping google.com (142.250.186.78) 56(84) bytes of data.
64 bytes from fra24s05-in-f14.1e100.net (142.250.186.78): icmp_seq=1 ttl=117 time=5.27 ms
64 bytes from fra24s05-in-f14.1e100.net (142.250.186.78): icmp_seq=2 ttl=117 time=5.40 ms
64 bytes from fra24s05-in-f14.1e100.net (142.250.186.78): icmp_seq=3 ttl=117 time=5.43 ms
--- google.com ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 6ms
rtt min/avg/max/mdev = 5.268/5.367/5.432/0.110 ms
/ #
```

```
Unable to find image 'alpine:3.10' locally
3.10: Pulling from library/alpine
396c31837116: Pull complete
Digest: sha256:451eee8bedcb2f029756dc3e9d73bab0e7943c1ac55cff3a4861c52a0fdd3e98
Status: Downloaded newer image for alpine:3.10
/ # docker images
/bin/sh: docker: not found
/ # pwd
/
/ # ls
bin etc lib mnt proc run srv tmp var
dev home media opt root sbin sys usr
/ # apk update && apk add iputils
fetch http://dl-cdn.alpinelinux.org/alpine/v3.10/main/x86_64/APKINDEX.tar.gz
fetch http://dl-cdn.alpinelinux.org/alpine/v3.10/community/x86_64/APKINDEX.tar.gz
v3.10.9-40-gc03ce583a6 [http://dl-cdn.alpinelinux.org/alpine/v3.10/main]
v3.10.6-10-ged79a86de3 [http://dl-cdn.alpinelinux.org/alpine/v3.10/community]
OK: 10343 distinct packages available
(1/2) Installing libcap (2.27-r0)
(2/2) Installing iputils (20180629-r1)
Executing busybox-1.30.1-r5.trigger
OK: 6 MiB in 16 packages
/ # ping -c 3 google.com
PING google.com (142.250.186.78) 56(84) bytes of data.
64 bytes from fra24s05-in-f14.1e100.net (142.250.186.78): icmp_seq=1 ttl=117 time=5.27 ms
64 bytes from fra24s05-in-f14.1e100.net (142.250.186.78): icmp_seq=2 ttl=117 time=5.40 ms
64 bytes from fra24s05-in-f14.1e100.net (142.250.186.78): icmp_seq=3 ttl=117 time=5.43 ms
--- google.com ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 6ms
rtt min/avg/max/mdev = 5.268/5.367/5.432/0.110 ms
/ #
```

NAMA : ANGELIA FRANSISKA NGALA

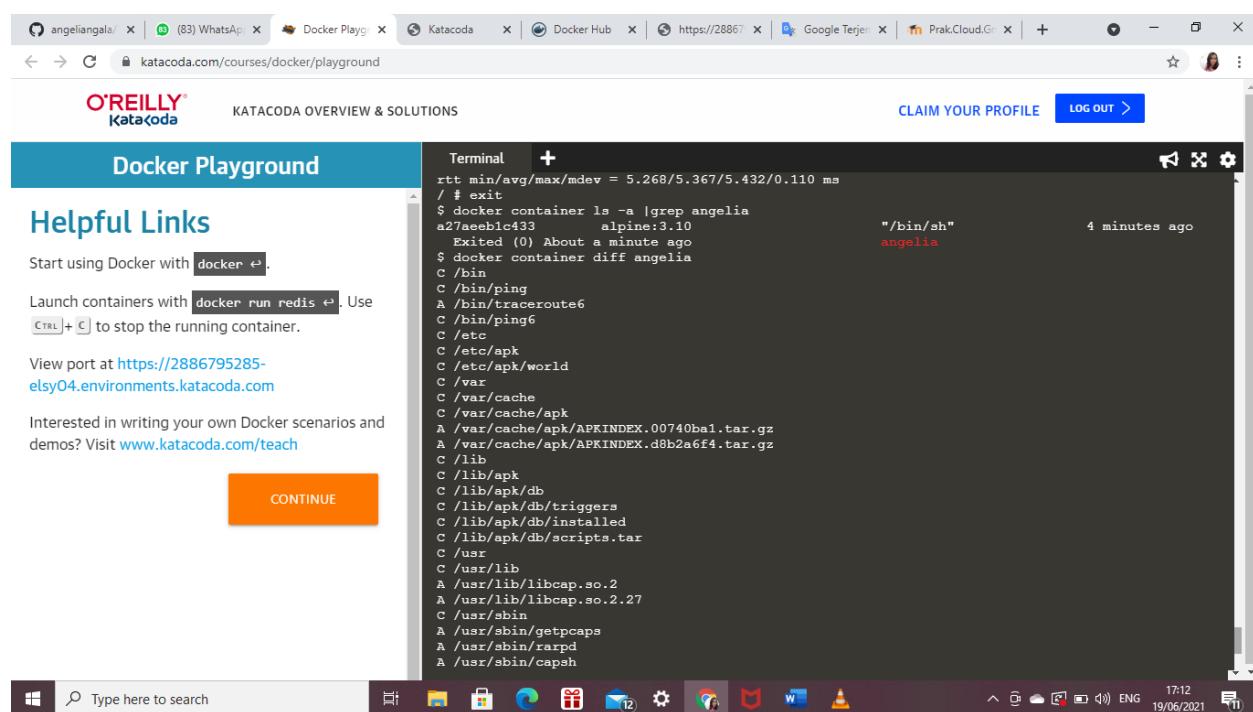
NIM : 185610038



The screenshot shows a web browser window with multiple tabs open. The active tab is 'Docker Playground' on the Katacoda website. The terminal window on the right shows the following command history:

```
Status: Downloaded newer image for alpine:3.10
/ # docker images
/bin/sh: docker: not found
/ # pwd
/
/ # ls
bin etc lib mnt proc run srv tmp var
dev home media opt root sbin sys usr
/ # apk update && apk add iputils
fetch http://dl-cdn.alpinelinux.org/alpine/v3.10/main/x86_64/APKINDEX.tar.gz
fetch http://dl-cdn.alpinelinux.org/alpine/v3.10/community/x86_64/APKINDEX.tar.gz
v3.10.9-40-gc03ce583a6 [http://dl-cdn.alpinelinux.org/alpine/v3.10/main]
v3.10.6-10-ged79a86de3 [http://dl-cdn.alpinelinux.org/alpine/v3.10/community]
OK: 10343 distinct packages available
(1/2) Installing libcap (2.27-r0)
(2/2) Installing iputils (20180629-r1)
Executing busybox-1.30.1-r5.trigger
OK: 6 MiB in 16 packages
/ # ping -c 3 google.com
PING google.com (142.250.186.78) 56(84) bytes of data.
64 bytes from fra24s05-in-f14.1e100.net (142.250.186.78): icmp_seq=1 ttl=117 time=5.27 ms
64 bytes from fra24s05-in-f14.1e100.net (142.250.186.78): icmp_seq=2 ttl=117 time=5.40 ms
64 bytes from fra24s05-in-f14.1e100.net (142.250.186.78): icmp_seq=3 ttl=117 time=5.43 ms

--- google.com ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 6ms
rtt min/avg/max/mdev = 5.268/5.367/5.432/0.110 ms
/ # exit
$ docker container ls -a |grep angelia
a27aeeb1c433           alpine:3.10                         "/bin/sh"          angelia
    Exited (0) About a minute ago                           4 minutes ago
$
```

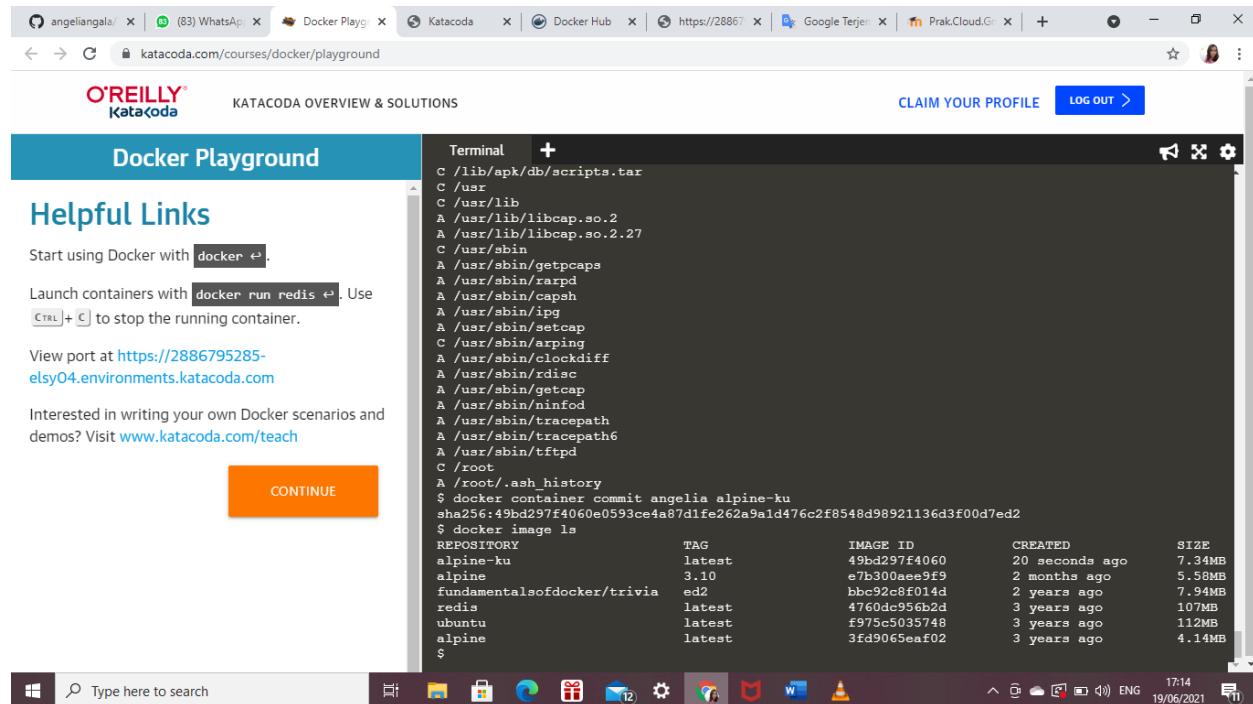


The screenshot shows a second instance of a web browser with the same setup. The terminal window on the right shows the following command history:

```
rtt min/avg/max/mdev = 5.268/5.367/5.432/0.110 ms
/ # exit
$ docker container ls -a |grep angelia
a27aeeb1c433           alpine:3.10                         "/bin/sh"          angelia
    Exited (0) About a minute ago                           4 minutes ago
$ docker container diff angelia
C /bin
C /bin/ping
A /bin/traceroute6
C /bin/ping6
C /etc
C /etc/apk
C /etc/apk/world
C /var
C /var/cache
C /var/cache/apk
A /var/cache/apk/APKINDEX.00740ba1.tar.gz
A /var/cache/apk/APKINDEX.d8b2a6f4.tar.gz
C /lib
C /lib/apk
C /lib/apk/db
C /lib/apk/db/triggers
C /lib/apk/db/installed
C /lib/apk/db/scripts.tar
C /usr
C /usr/lib
A /usr/lib/libcap.so.2
A /usr/lib/libcap.so.2.22
C /usr/sbin
A /usr/sbin/getpcaps
A /usr/sbin/rarpd
A /usr/sbin/capsh
```

NAMA : ANGELIA FRANSISKA NGALA

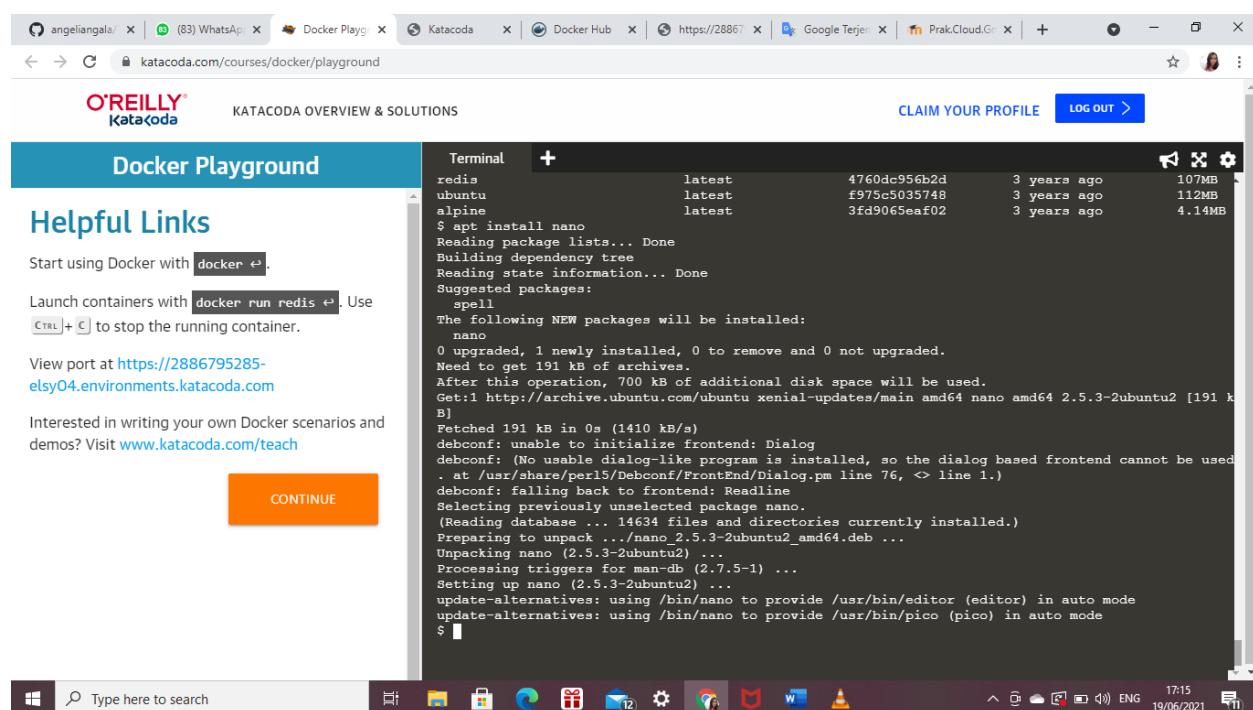
NIM : 185610038



Terminal +

```
C /lib/apk/db/scripts.tar
C /usr
C /usr/lib
A /usr/lib/libcap.so.2
A /usr/lib/libcap.so.2.22
C /usr/sbin
A /usr/sbin/getpcaps
A /usr/sbin/rarpd
A /usr/sbin/capsh
A /usr/sbin/igp
A /usr/sbin/setcap
C /usr/sbin/arping
A /usr/sbin/clockdiff
A /usr/sbin/rdisc
A /usr/sbin/getcap
A /usr/sbin/ninfod
A /usr/sbin/tracepath
A /usr/sbin/tracepath6
A /usr/sbin/tftpd
C /root
A /root/.ash_history
$ docker container commit angelia alpine-ku
sha256:49bd297f4060e0593ce4a87d1fe262a9a1d476c2f8548d98921136d3f00d7ed2
$ docker image ls
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
alpine-ku	latest	49bd297f4060	20 seconds ago	7.34MB
alpine	3.10	e7b300aee9f9	2 months ago	5.58MB
fundamentalsofdocker/trivia	ed2	bbc92c8f014d	2 years ago	7.94MB
redis	latest	4760dc956b2d	3 years ago	107MB
ubuntu	latest	f975c5035748	3 years ago	112MB
alpine	latest	3fd9065eaf02	3 years ago	4.14MB
\$				



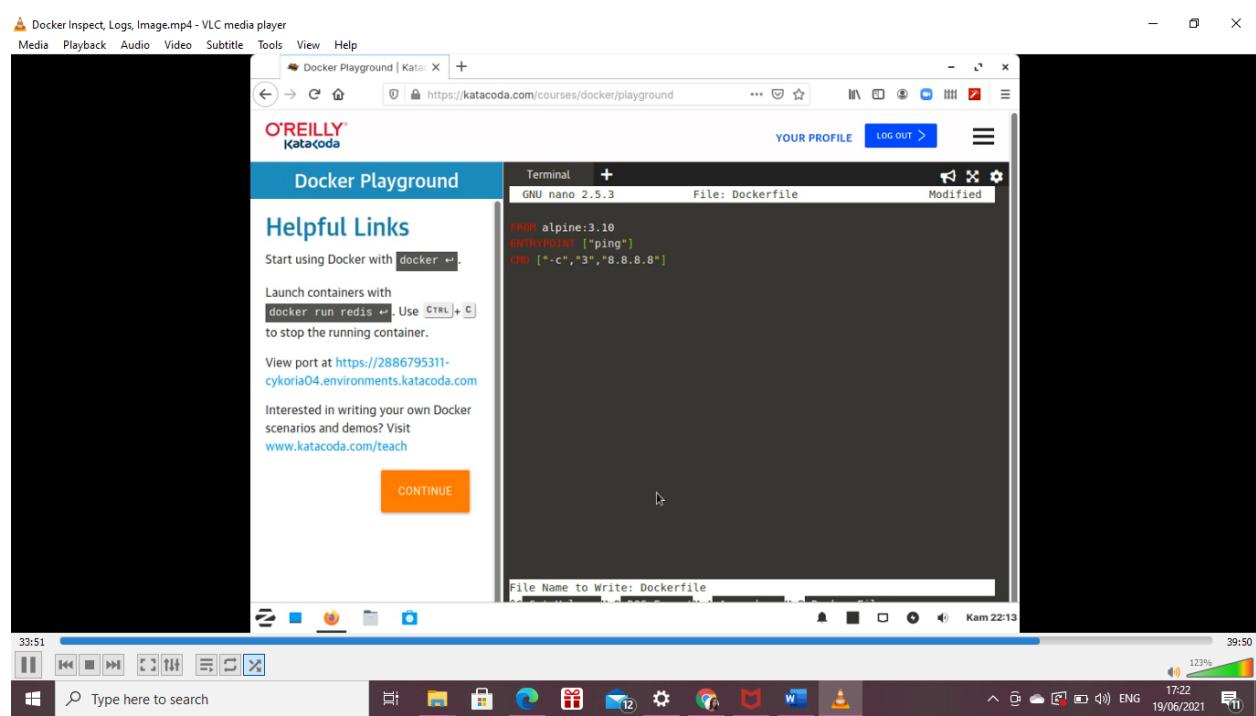
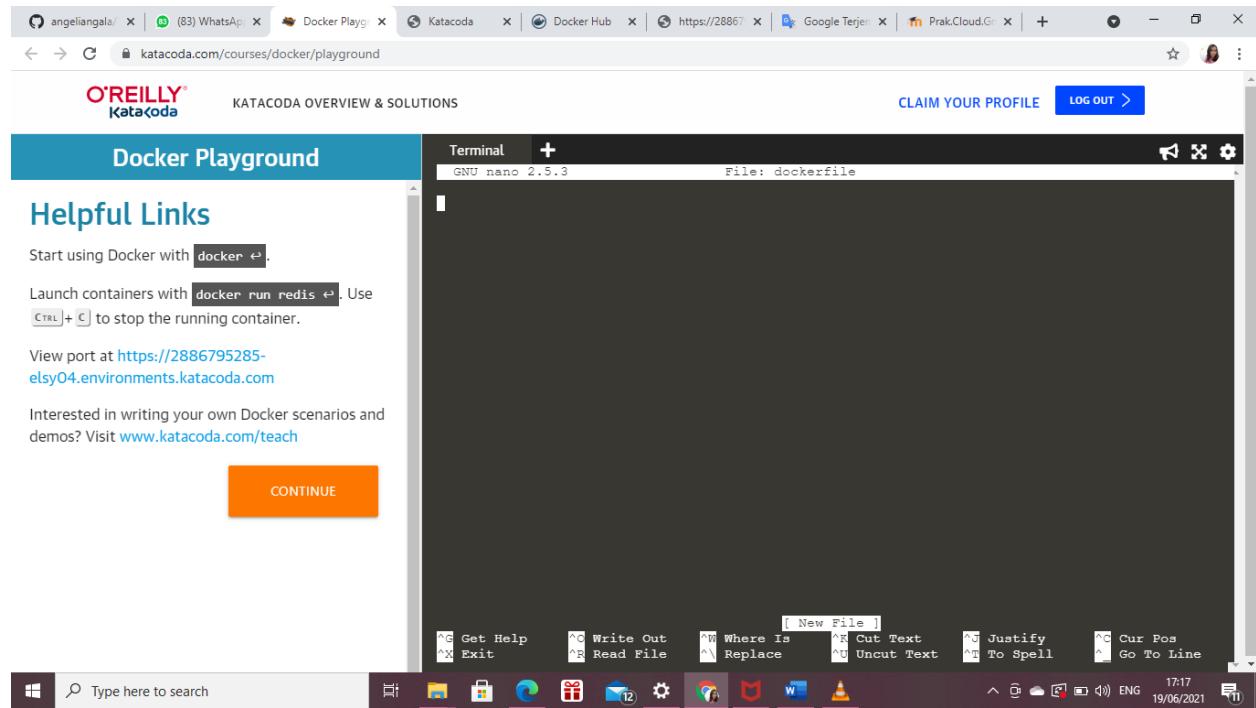
Terminal +

```
redis      latest      4760dc956b2d      3 years ago     107MB
ubuntu     latest      f975c5035748      3 years ago     112MB
alpine     latest      3fd9065eaf02      3 years ago     4.14MB

$ apt install nano
Reading package lists... Done
Building dependency tree
Reading state information... Done
Suggested packages:
  spell
The following NEW packages will be installed:
  nano
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 191 kB of archives.
After this operation, 700 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 nano amd64 2.5.3-2ubuntu2 [191 kB]
[...]
Fetched 191 kB in 0s (1410 kB/s)
debconf: unable to initialize frontend: Dialog
debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used.
  at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 76, < line 1.)
debconf: falling back to frontend: Readline
Selecting previously unselected package nano.
(Reading database ... 14634 files and directories currently installed.)
Preparing to unpack .../nano_2.5.3-2ubuntu2_amd64.deb ...
Unpacking nano (2.5.3-2ubuntu2) ...
Processing triggers for man-db (2.7.5-1) ...
Setting up nano (2.5.3-2ubuntu2) ...
update-alternatives: using /bin/nano to provide /usr/bin/editor (editor) in auto mode
update-alternatives: using /bin/nano to provide /usr/bin/pico (pico) in auto mode
$
```

NAMA : ANGELIA FRANSISKA NGALA

NIM : 185610038



NAMA : ANGELIA FRANSISKA NGALA

NIM : 185610038

The screenshot shows the Katacoda Docker Playground interface. On the left, there's a sidebar with "Helpful Links" and instructions for using Docker. A large orange "CONTINUE" button is at the bottom. On the right is a terminal window displaying a command-line session:

```
Terminal +  
nano  
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.  
Need to get 191 kB of archives.  
After this operation, 700 kB of additional disk space will be used.  
Get:1 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 nano amd64 2.5.3-2ubuntu2 [191 kB]  
Fetched 191 kB in 0s (1410 kB/s)  
debconf: unable to initialize frontend: Dialog  
debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used  
.. at /usr/share/perl5/Debconf/FrontEnd/dialog.pm line 76, < line 1.)  
debconf: falling back to frontend: Readline  
Selecting previously unselected package nano.  
(Reading database ... 14634 files and directories currently installed.)  
Preparing to unpack .../nano_2.5.3-2ubuntu2_amd64.deb ...  
Unpacking nano (2.5.3-2ubuntu2) ...  
Processing triggers for man-db (2.7.5-1) ...  
Setting up nano (2.5.3-2ubuntu2) ...  
update-alternatives: using /bin/nano to provide /usr/bin/editor (editor) in auto mode  
update-alternatives: using /bin/nano to provide /usr/bin/pico (pico) in auto mode  
$ mkdir appsping  
$ cd appsping/  
$ pwd  
/home/scrapbook/tutorial/appsping  
$ nano Dockerfile  
$ cat Dockerfile  
cat: Dockerfile: No such file or directory  
$ cat dockerfile  
FROM alpine:3.10  
ENTRYPOINT ["ping"]  
CMD ["-c","3","8.8.8.8"]  
$
```

This screenshot shows the same Docker Playground interface as the first one, but with a longer command history in the terminal window. The terminal output is as follows:

```
Terminal +  
Unpacking nano (2.5.3-2ubuntu2) ...  
Processing triggers for man-db (2.7.5-1) ...  
Setting up nano (2.5.3-2ubuntu2) ...  
update-alternatives: using /bin/nano to provide /usr/bin/editor (editor) in auto mode  
update-alternatives: using /bin/nano to provide /usr/bin/pico (pico) in auto mode  
$ mkdir appsping  
$ cd appsping/  
$ pwd  
/home/scrapbook/tutorial/appsping  
$ nano Dockerfile  
$ cat Dockerfile  
cat: Dockerfile: No such file or directory  
$ cat dockerfile  
FROM alpine:3.10  
ENTRYPOINT ["ping"]  
CMD ["-c","3","8.8.8.8"]  
  
$ docker image build -t appsping .  
Sending build context to Docker daemon 2.048kB  
Step 1/3 : FROM alpine:3.10  
--> e7b300aae9f9  
Step 2/3 : ENTRYPOINT ["ping"]  
--> Running in 125f80aec5f5  
Removing intermediate container 125f80aec5f5  
--> a33624d1501a  
Step 3/3 : CMD ["-c","3","8.8.8.8"]  
--> Running in f470a910ff09  
Removing intermediate container f470a910ff09  
--> 3282def38424  
Successfully built 3282def38424  
Successfully tagged appsping:latest  
$
```

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NIM : 185610038

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Docker Playground

Helpful Links

Start using Docker with `docker`.

Launch containers with `docker run redis`. Use `CTRL+C` to stop the running container.

View port at <https://2886795285-elsy04.environments.katacoda.com>

Interested in writing your own Docker scenarios and demos? Visit www.katacoda.com/teach

CONTINUE

```
$ nano Dockerfile
$ cat Dockerfile
cat: Dockerfile: No such file or directory
$ cat dockerfile
FROM alpine:3.10
ENTRYPOINT ["ping"]
CMD ["-c", "3", "8.8.8.8"]

$ docker image build -t appsping .
Sending build context to Docker daemon 2.048kB
Step 1/3 : FROM alpine:3.10
--> e7b300aae9f9
Step 2/3 : ENTRYPOINT ["ping"]
--> Running in 125f80aec5f5
Removing intermediate container 125f80aec5f5
--> a33624d1501a
Step 3/3 : CMD ["-c", "3", "8.8.8.8"]
--> Running in f470a910ff09
Removing intermediate container f470a910ff09
--> 3282def38424
Successfully built 3282def38424
Successfully tagged appsping:latest
$ docker container run --rm -it appsping
PING 8.8.8.8 (8.8.8.8) 56 data bytes
64 bytes from 8.8.8.8: seq=0 ttl=116 time=5.222 ms
64 bytes from 8.8.8.8: seq=1 ttl=116 time=5.214 ms
64 bytes from 8.8.8.8: seq=2 ttl=116 time=5.385 ms
--- 8.8.8.8 ping statistics ---
3 packets transmitted, 3 packets received, 0% packet loss
round-trip min/avg/max = 5.214/5.273/5.385 ms
$
```

Data containers

NAMA : ANGELIA FRANSISKA NGALA

NIM : 185610038

The screenshot shows a web browser window with multiple tabs open. The main content is a Katacoda tutorial titled "Data Containers". The terminal window displays the following Docker commands:

```
$ docker create -v /config --name dataContainer busybox
Unable to find image 'busybox:latest' locally
latest: Pulling from library/busybox
b71f96345d44: Pull complete
Digest: sha256:930490f97e5b921535c153e0e7110d251134cc4b72bbb8133c6a5065cc68580d
Status: Downloaded newer image for busybox:latest
926f1016acaefefb381cee3e276d985ec0477a580db86df00de57979d67de8d9
$ docker images
REPOSITORY      TAG          IMAGE ID       CREATED        SIZE
busybox         latest        69593048aa3a   12 days ago   1.24MB
redis           latest        4760dc956b2d   3 years ago   107MB
ubuntu          latest        f975c5035748   3 years ago   112MB
alpine          latest        3fd9065ea02    3 years ago   4.14MB
$
```

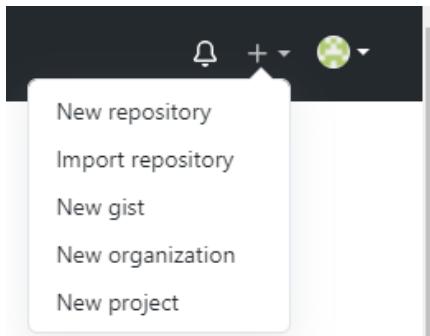
The screenshot shows a web browser window with multiple tabs open. The main content is a Katacoda tutorial titled "Data Containers". The terminal window displays the following Docker commands:

```
Unable to find image 'busybox:latest' locally
latest: Pulling from library/busybox
b71f96345d44: Pull complete
Digest: sha256:930490f97e5b921535c153e0e7110d251134cc4b72bbb8133c6a5065cc68580d
Status: Downloaded newer image for busybox:latest
926f1016acaefefb381cee3e276d985ec0477a580db86df00de57979d67de8d9
$ docker images
REPOSITORY      TAG          IMAGE ID       CREATED        SIZE
busybox         latest        69593048aa3a   12 days ago   1.24MB
redis           latest        4760dc956b2d   3 years ago   107MB
ubuntu          latest        f975c5035748   3 years ago   112MB
alpine          latest        3fd9065ea02    3 years ago   4.14MB
$ docker container ps
CONTAINER ID   IMAGE          COMMAND       CREATED        STATUS
$ ls
config.conf
$ docker create -v /config --name dataContainer busybox
Error response from daemon: Conflict. The container name "/dataContainer" is already in use by container "926f1016acaefefb381cee3e276d985ec0477a580db86df00de57979d67de8d9". You have to remove (or rename) that container to be able to reuse that name.
$ ls
config.conf
$ docker cp config.conf dataContainer:/config/
$ docker run --volumes-from dataContainer ubuntu ls /config
docker: Error response from daemon: No such container: dataContainer.
See 'docker run --help'.
$ docker run --volumes-from dataContainer ubuntu ls /config
config.conf
$ docker import dataContainer.tar
open dataContainer.tar: no such file or directory
$
```

NAMA : ANGELIA FRANSISKA NGALA

NIM : 185610038

Yang pertama kita membuat repo di github dengan menekan tanda (+) lalu pilih new repository, kemudian akan tampil tampilan seperti dibawah ini, dan kita mengisikan repository name dengan NIM kita sendiri



Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?
[Import a repository.](#)

Owner *



Repository name *

/ 185610038 ✓

Great repository names are simple. 185610038 is available. Need inspiration? How about [cuddly-invention](#)?

Description (optional)



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

NAMA : ANGELIA FRANSISKA NGALA
NIM : 185610038

Add .gitignore
Choose which files not to track from a list of templates. [Learn more](#).

Choose a license
A license tells others what they can and can't do with your code. [Learn more](#).

This will set `main` as the default branch. Change the default name in your [settings](#).

Create repository

Ketika kita menetakan tombol Create Repository maka akan muncul tampilan dibawah ini

The screenshot shows a GitHub repository page. At the top, the URL is `github.com/angeliangala/185610038`. The repository name is `angeliangala / 185610038`. The main navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the navigation, there's a summary: `main` branch, 1 branch, 0 tags. A green "Code" button is highlighted. The repository has 1 commit by `angeliangala` titled "Initial commit" made 3 minutes ago. A file named `README.md` is listed with the same timestamp. On the right side, there are sections for About (no description), Releases (no releases published), and Packages (no packages published). A sidebar on the left shows a list of recent commits and files.

<https://github.com/angeliangala/185610038>

<https://hub.docker.com/u/angeliangala>

NAMA : ANGELIA FRANSISKA NGALA

NIM : 185610038

Please check your inbox to verify the email associated with this account. You won't be able to create a repository or configure your Docker Hub without verifying your email address.

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Repositories Starred Contributed

No repositories

This profile does not have any public repositories

Type here to search

10:53 20/06/2021