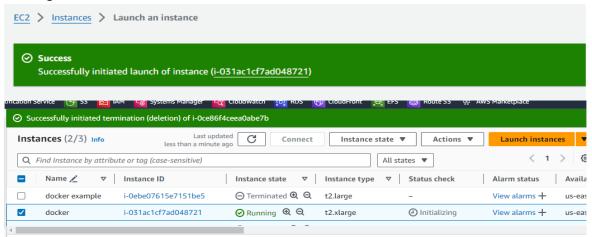
## Student app project using docker

## Creating a instance



Login to the user using the command

Ssh -I keyname username@public ip

```
hivam@DESKTOP-1BLG2M6:~$ ssh -i gargi.pem ubuntu@35.172.228.213
The authenticity of host '35.172.228.213 (35.172.228.213)' can't be established.
ED25519 key fingerprint is SHA256:3TDyvNQhxxPwttZrQSDUUfU896z5FJwtOtUom/pszPQ.
This key is not known by any other names
```

After login go to the root

Cloning the directory from the documentation using command git clone

Git clone https://github.com/rajatpzade/CDECB39-Demo.git

```
ubuntu@ip-172-31-24-47:~$ sudo -i
root@ip-172-31-24-47:~$ git clone https://github.com/rajatpzade/CDECB39-Demo.git
Cloning into 'CDECB39-Demo'...
remote: Enumerating objects: 329, done.
remote: Counting objects: 100% (184/184), done.
remote: Compressing objects: 100% (138/138), done.
remote: Total 329 (delta 99), reused 125 (delta 43), pack-reused 145 (from 1)
Receiving objects: 100% (329/329), 31.94 KiB | 4.56 MiB/s, done.
Resolving deltas: 100% (163/163), done.
root@ip-172-31-24-47:~# |s
CDECB39-Demo snap
root@ip-172-31-24-47:~# |
```

Getting docker started by activating ./docker.sh file (permission- chmod o+x docker.sh)

```
No VM guests are running outdated bynamies.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

root@ip-172-31-24-47:~/CDECB39-Demo# ls

README.md Students-Docker docker.sh dockerfile index.html

root@ip-172-31-24-47:~/CDECB39-Demo# |
```

In DB give execution permission to the Dockerfile Build the

file and create a container docker build -t students-db.

docker run -d -p 3306:3306 --name students-db students-db

```
BE DB FE README.MD

root@ip-172-31-24-47:~/CDECB39-Demo/Students-Docker# cd DB

root@ip-172-31-24-47:~/CDECB39-Demo/Students-Docker/DB# ls

Dockerfile init-db.sql

root@ip-172-31-24-47:~/CDECB39-Demo/Students-Docker/DB# chmod o+x Dockerfile

root@ip-172-31-24-47:~/CDECB39-Demo/Students-Docker/DB# ^C

root@ip-172-31-24-47:~/CDECB39-Demo/Students-Docker/DB# docker build -t students-db .

[+] Building 8.7s (4/6)
```

```
=> => naming to docker.io/library/students-db

1 warning found (use docker --debug to expand):
- SecretsUsedInArgOrEnv: Do not use ARG or ENV instructions for sensitive data (ENV "MYSQL_ROOT_PASSWORD") (line 5) root@ip-172-31-24-47:~/CDECB39-Demo/Students-Docker/DB# docker run -d -p 3306:3306 --name students-db students-db e645ed716fccf16911c8434154b6d197e78a5f444afea8d906dba85f050448e63 root@ip-172-31-24-47:~/CDECB39-Demo/Students-Docker/DB#
```

In BE execution permission to the Dockerfile

Build the file and create a container docker

build -t students-backend.

docker run -d -p 8080:8080 --name students-backend --link students-db students-backend link the db with the backend

```
oot@ip-172-31-24-47:~/CDECB39-Demo/Students-Docker/BE# vim context.xml
oot@ip-172-31-24-47:~/CDECB39-Demo/Students-Docker/BE# ll
otal 16
rwxr-xr-x 2 root root 4096 Sep 19 10:13 ./
rwxr-xr-x 5 root root 4096 Sep 19 10:09 ../
rw-r-rx 1 root root 829 Sep 19 10:09 Dockerfile*
rw-r-rx 1 root root 1529 Sep 19 10:13 context.xml
oot@ip-172-31-24-47:~/CDECB39-Demo/Students-Docker/BE# vim Dockerfile
oot@ip-172-31-24-47:~/CDECB39-Demo/Students-Docker/BE# docker build -t students-backend .
+] Building 0.9s (5/16)
=> internal load build definition from Dockerfile
=> transferring dockerfile: 869B
=> [internal] load metadata for docker.io/library/ubuntu:20.04
=> [internal] load dockerignore
=> transferring context: 2B
=> [internal] load build context
=> [6/9] ADD https://s3-us-west-2.amazonaws.com/studentapi-cit/student.war /opt/apache-tomcat-9.0.95/webapps/
=> [1/9] FROM docker.io/library/ubuntu:20.04@sha256:fa17826afb526a9fc7250e0fbcbfd18d03fe7a548494472f86879d8bf562c62
=> resolve docker.io/library/ubuntu:20.04@sha256:fa17826afb526a9fc7250e0fbcbfd18d03fe7a548494472f86879d8bf562c62
=> sha256:fa17826afb526a9fc7250e0fbcbfd18d03fe7a548494472f86879d8bf562c62e
=> sha256:fa17826afb526a9fc7250e0fbcbfd18d03fe7a548494472f86879d8bf562c62e
=> sha256:fa17826afb526a9fc7250e0fbcbfd18d03fe7a548494472f86879d8bf562c62e
=> sha256:fa17826afb526a9fc7250e0fbcbfd18d03fe7a548494472f86879d8bf502c62e
=> sha256:fa17826afb526a9fc7250e0fbcbfd18d03fe7a548494472f86879d8bf502c62e
=> sha256:fa17826afb526a9fc7250e0fbcbfd18d03fe7a548494472f86879d8bf502c62e
=> sha256:fa17826afb526a9fc7250e0fbcbfd18d03fe7a548494472f86879d8bf502c62e
=> sha256:fa17826afb526a9fc7250e0fbcbfd18d03fe7a548494472f86879d8bf502c62e
=> sha256:fa17826afb526a9fc7250e0fbcbfd18d03fe7a548494472f86879d8bf502c62e
=> sha256:fa17826afb5263fc7250e0fbcbfd18d03fe7a548494472f86879d8bf502c62e
=> sha256:fa17826afb526a9fc7250e0fbcbfd18d03fe7a548494472f86879d8bf502c62e
=> sha256:fa17826afb526a9fc7250e0fbcbfd18d03fe7a548494472f86879d8bf502c62e
=> sha256:fa17826afb526a9fc7250e0fbcbfd18d03fe7a548494472
```

In FE execution permission to the Dockerfile

Build the file and create a container

Give public ip in the index.html file

```
lt="" width="1200" height="630" />

panbsp;
<h2 style="text-align: center;"><a href="http://35.172.228.213:8080/student/"><strong>Enter to Student Application</strong></a></h2>
```

docker build -t students-frontend . docker run -d -p 80:80 --name

students-frontend students-frontend

```
=> = xtracting shaz86:589789394C2a1986127ea7ef86677c619dae6aa7157672578elba02ef602a485
=> [2/2] COPY ./index.html / /usr/local/apache2/htdocs/
=> exporting to image
=> => exporting to image
=> => exporting layers
=> => maxing to docker.io/library/students-Frontend
root@ip-172-31-24-47:~/CDECB39-Demo/Students-Docker/FE# docker run -d -p 80:80 --name students-frontend students-frontend fivate Windo
26a13843b6c613199289b072516c375136f927e4e8b4445437ef11a6b86ca7de5
root@ip-172-31-24-47:~/CDECB39-Demo/Students-Docker/FE# |
```

hit the public ip on the web



Welcome to Student Application on AWS.



Enter to Student Application



## Student Registration Form



## Successfully adding the data

