# Task =Hosting 3 tire studentvia docker file

NAME = Akshay choudhary

1) Create EC2 instance with ubuntu image and connect it.
2) Install docker in the instance terminal using root user (sudo -i) and after installing docker start the docker using
   systemctl start docker

3) Firstly create data base im my sql for this use command.
   - docker run -d -p 3306:3306 -e MYSQL_ROOT_PASSWORD=1234 mysql:latest
   - docker ps ( show the running container)
   - docker exec -it <container-id> mysql -u root -p1234

4) After the mysql use command to create database.
   - create database studentapp;

use studentapp;

CREATE TABLE if not exists students(student_id INT NOT NULL AUTO_INCREMENT,

   student_name VARCHAR(100) NOT NULL,

   student_addr VARCHAR(100) NOT NULL,

   student_age VARCHAR(3) NOT NULL,

   student_qual VARCHAR(20) NOT NULL,

   student_percent VARCHAR(10) NOT NULL,

   student_year_passed VARCHAR(10) NOT NULL,

   PRIMARY KEY (student_id)

);

   - desc students;   (show the table )



5) docker inspect < container -id>   | grep "

6) Copy mysql ip for the further use

Note : backend & fronted file my repo   https://github.com/Akshay-7693032755/docker.git

# • Backend

1) Creating repo in git or use existing     and make  two folder in the repo

1:  fronted

2: backend

2) In backend create three file.

1: docker file    =

2:  context.xml    =

3:   student.war

3) Make  git clone and build  docker image

Docker build.

Docker images

Assign ip to  image  > docker run = -d -p 8080:8080 < image ip >

- • Docker ps
- • Hit ip to see hosting

# • Fronted

- • Create  two file in fronted folder

1:   docker file   your image

2:    index.html

- • Git push or pull

1:   build docker image   (docker build)

2:    docker images

3:    assign  ip   docker run -d -p 80:80 < image id >

4:    docker ps

**Students List**

| Student ID | Student Name | Student Address | Student Age | Student Qualification | Student Percentage | Student Year Passed | Edit | Delete |
|---|---|---|---|---|---|---|---|---|
| 1 | akshay chaudhary | pune | 22 | mba | 75 | 2023 | edit | delete |



Enter to Student Application

**Student Registration Form**

| Student Name | akshay choudhary |
|---|---|
| Student Address | pune |
| Student Age | 22 |
| Student Qualification | MBA |
| Student Percentage | 70 |
| Year Passed | 2023 |

register

- Login the docker hub account and pull from file

  1) Login docker hub account

     Docker login

User name

Password

Docker push <docker hub-username >/<docker hub-repo> [tags]