CDEC B24

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Hosting 3 tier studentapp via docker compose

- 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

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

3. Firstly create data base in MySQL for this use command.

- docker run -d -p 3306:3306 MYSQL ROOT PASSWORD=1234 mysql:latest

```
root@ip-172-31-43-219:~ docker run -d -p 3306:3306 -e MYSQL_ROOT_PASSWORD=1234 mysql:latest
Unable to find image 'mysql:latest' locally
latest: Pulling from library/mysql
9a5c778f631f: Pull complete
9e77c3a95bf2: Pull complete
8b279a2086e0: Pull complete
6b5bcde7882: Pull complete
d35b074b68ec: Pull complete
d435b074b68ec: Pull complete
beea5014e6af: Pull complete
dc3791a61558: Pull complete
52f9323b9f0e: Pull complete
7f7391eab49b: Pull complete
8d2f04b287ee: Pull complete
Digest: sha256:9d1c923e5f66a89607285ee2641f8a53430a1ccd5e4a62b35eb8a48b74b9ff48
Status: Downloaded newer image for mysql:latest
be0dc3d9935c8fed58ebf8c87023c6df71bc08a0ed9ee0db8b876623bfbbadc3
```

- docker ps

```
root8ip-172-31-43-219:-# docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
NAME
8
beold3d9935c mysql:latest "docker-entrypoint.s..." 4 seconds ago Up 3 seconds 0.0.0.0:3306->3306/tcp, :::3306->3306/tcp, 33060/tcp gift set ganguly
```

- docker exec -it mysql -u root -p1234
- 4. After entering this command you enter into the mysql use commands to create database.
- create database studentapp;
- use studentapp;

```
root@ip-172-31-43-219:~‡ docker exec -it be0 mysql -u root -p1234
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 8
Server version: 8.3.0 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database studentapp;
Query OK, 1 row affected (0.00 sec)

mysql> create database studentapp;
ERROR 1007 (HY000): Can't create database 'studentapp'; database exists mysql> use studentapp;
Database changed
```

```
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;
- exit

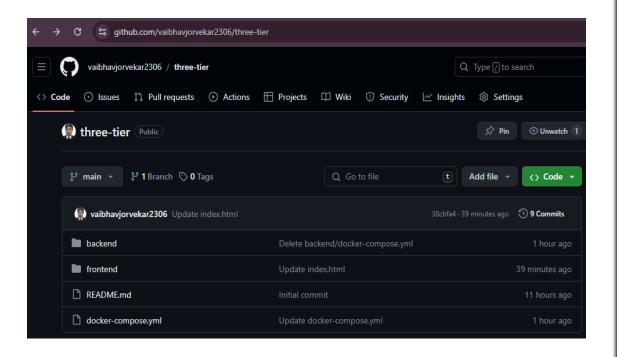
```
ysql> desc students;
 Field
                                      Null | Key | Default |
                      Type
 student_id
                     | int
                                                             auto_increment
                                     l NO
                                            PRI NULL
                       varchar(100)
 student_name
                                    NO
                                                   NULL
 student_addr
                       varchar(100)
                                      NO
                                                   NULL
 student_age
                       varchar(3)
                                      NO
                                                   NULL
 student qual
                     | varchar(20)
                                      NO
                                                   NULL
 student percent
                     | varchar(10)
                                    NO
                                                   NULL
 student_year_passed | varchar(10)
                                     NO
                                                   NULL
 rows in set (0.00 sec)
mysql> exit
```

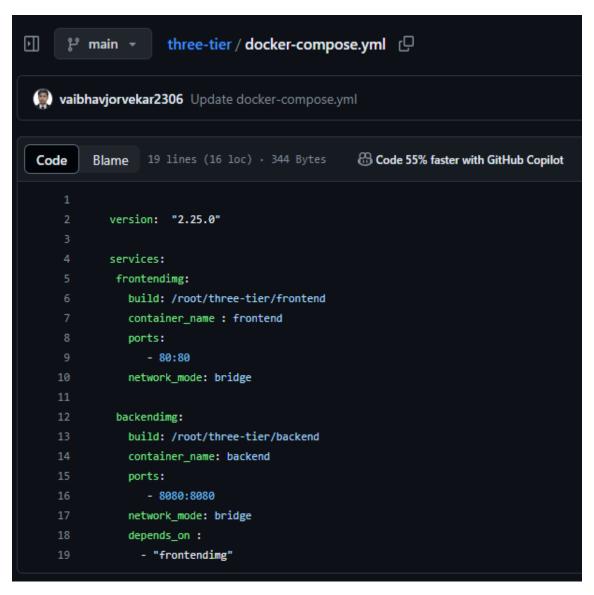
docker inspect | grep "IP"

Database will be created

 Create docker compose file with extension yaml (docker-compose.yml)

 The docker-compose.yml file must be separate as shown in photo.

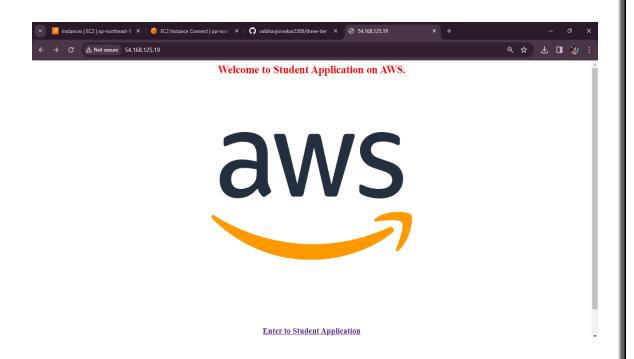


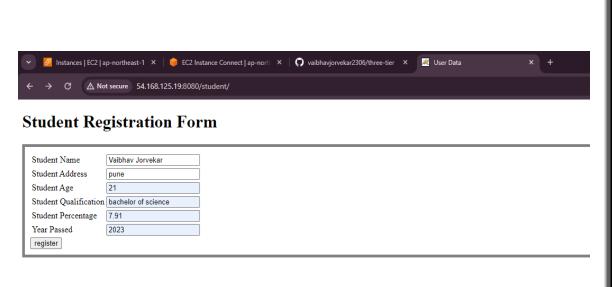


- 1. Git push or pull
- 2. Cd <repo name>
- 3. docker compose up -d -> use command

-docker compose up -d

Hit the ip in web







Students List

	Student ID	StudentName	Student Addrs	Student Age	Student Qualification	Student Percentage	Student Year Passed	Edit	Delete
1		Vaibhav Jorvekar	pune	21	bachelor of science	7.91	2023	<u>edit</u>	delete