## **Threetier studentapp**

### **Steps**

#### Backend:

```
1) docker run -d -p 3306:3306 -e MYSQL_ROOT_PASSWORD=1234 mysql:latest
2) docker ps
3) docker images
4) docker exec -it id mysql -u root -p1234 (id=container id)
5) > create database studentapp;
   >use studentapp;
   > (paste create table code)
   > sesc students;
   > exit
6) git clone (https link of github)
7) Is
8) cd (repo name)
9) Is
10) docker images
11) docker tag id (backend name):latest
12) docker images
13) ls
14) docker run -d -p 8080:8080 (backend name)
15) cd ..
```

#### Frontend:

- 1) Cd frontend/
- 2) Is
- 3) docker build.
- 4) docker tag id (frontend name):latest
- 5) docker Images
- 6) docker run -d -p 80:80 (frontend name)

## Backend:

```
        CREATED
        STATUS
        PORTS
        NAMES

        3 minutes ago
        Up 3 minutes
        0.0.0.0:3306->3306/tcp, :::3306->3306/tcp, 33060/tcp
        hopeful_heyrovsky

i-0ca6104c092ad959c (treetier_studentapp)
```

PublicIPs: 18.232.106.251 PrivateIPs: 172.31.47.12

```
mysql> create database studentapp;
Query OK, 1 row affected (0.00 sec)
mysql> use studentapp;
Database changed
mysql> 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)
   -> );
Query OK, 0 rows affected (0.03 sec)
mysql> desc students;
          | Null | Key | Default | Extra
| Field
                 | Type
| auto increment |
```

```
mysql> exit
root@ip-172-31-47-12:~# git clone https://github.com/Arohi1308/threetier Studentapp.git
Cloning into 'threetier Studentapp'...
remote: Enumerating objects: 43, done.
remote: Counting objects: 100% (43/43), done.
remote: Compressing objects: 100% (38/38), done.
remote: Total 43 (delta 5), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (43/43), 100.51 KiB | 6.70 MiB/s, done.
Resolving deltas: 100% (5/5), done.
root@ip-172-31-47-12:~# ls
snap threetier Studentapp
root@ip-172-31-47-12:~# cd threetier_Studentapp/
root@ip-172-31-47-12:~/threetier Studentapp# cd backend/
root@ip-172-31-47-12:~/threetier Studentapp/backend# ls
Dockerfile context.xml student
root@ip-172-31-47-12:~/threetier_Studentapp/backend# docker build .
[+] Building 43.2s (16/16) FINISHED
```

```
root@ip-172-31-47-12:~/threetier_Studentapp/backend# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
<none> <none> 7c9fa460680d About a minute ago 670MB
              latest 019814493c7a 8 weeks ago
nysql
                                                                         632MB
 coot@ip-172-31-47-12:~/threetier_Studentapp/backend# docker tag 7c9 arohi/backend:latest coot@ip-172-31-47-12:~/threetier_Studentapp/backend# docker images
                              IMAGE ID
REPOSITORY
                  TAG
                                                  CREATED
                                                                      SIZE
arohi/backend latest
                                7c9fa460680d
                                                  2 minutes ago
                              019814493c7a 8 weeks ago
nysql
                   latest
                                                                       632MB
 oot@ip-172-31-47-12:~/threetier Studentapp/backend# docker run -d -p 8080:8080 arohi/backend
16f724147903e771e1a8f2f381f0af644bb21eb7774cb9c9a9e7ab012132c4f1
root@ip-172-31-47-12:~/threetier Studentapp/backend#
```

### Output:



## **Student Registration Form**

Student Name	
Student Address	
Student Age	
Student Qualification	
Student Percentage	
Year Passed	
register	

← → C A	Not secure 18.232.106.25	51:8080/student/viewStudent	5				*	3
Register Student								
Students	List							
Student ID	StudentName	Student Addrs	Student Age	Student Qualification	Student Percentage	Student Year Passed	Edit	Delete

#### Frontend:

```
root@ip-172-31-47-12:~/threetier_Studentapp/backend# docker images
REPOSITORY
            TAG
                        IMAGE ID
                                       CREATED
                                                              SIZE
                        7c9fa460680d
                                       About a minute ago
<none>
             <none>
                                                              670MB
             latest 019814493c7a 8 weeks ago
                                                              632MB
root@ip-172-31-47-12:~/threetier_Studentapp/backend# docker tag 7c9 arohi/backend:latest root@ip-172-31-47-12:~/threetier_Studentapp/backend# docker images
REPOSITORY
               TAG
                           IMAGE ID
                                          CREATED
                                                            SIZE
arohi/backend latest
                           7c9fa460680d 2 minutes ago
                                                            670MB
mysql
                latest
                           019814493c7a 8 weeks ago
                                                            632MB
root@ip-172-31-47-12:~/threetier_Studentapp/backend# docker run -d -p 8080:8080 arohi/backend
16f724147903e771e1a8f2f381f0af644bb21eb7774cb9c9a9e7ab012132c4f1
root@ip-172-31-47-12:~/threetier_Studentapp/backend# cd ..
root@ip-172-31-47-12:~/threetier_Studentapp# ls
README.md backend frontend
root@ip-172-31-47-12:~/threetier Studentapp# cd frontend/
root@ip-172-31-47-12:~/threetier Studentapp/frontend# ls
Dockerfile index.html
root@ip-172-31-47-12:~/threetier_Studentapp/frontend# docker build .
[+] Building 22.1s (8/8) FINISHED
```

```
tag el4 arohi/frontend
ogramming external connectivity on endpoint quizzical_kirch (0869df631d8e35a1974ee55bb92e9190fafe87cd4ecd9720bdb2
        run -d -p 80:80 arohi/frontend
```

# Output:



Welcome to Student Application on AWS.





















