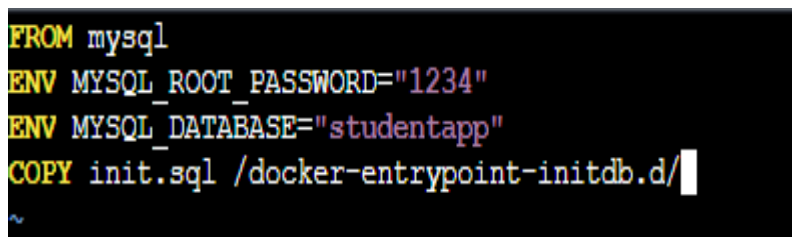


Hosting Tomcat Website in a Docker Container using Dockerfile

- First we need to create a container for mysql and then create a database.
- Create a directory mysql.
- Create a file called Dockerfile in the mysql directory.
- Add the following content in the Dockerfile of mysql.

```
FROM mysql
ENV MYSQL_ROOT_PASSWORD="1234"
ENV MYSQL_DATABASE="studentapp"
COPY init.sql /docker-entrypoint-initdb.d/
```

A screenshot of a terminal window with a black background and yellow and green text. The text is the same Dockerfile content shown in the previous block: FROM mysql, ENV MYSQL_ROOT_PASSWORD="1234", ENV MYSQL_DATABASE="studentapp", and COPY init.sql /docker-entrypoint-initdb.d/. A cursor is visible at the end of the last line.

```
FROM mysql
ENV MYSQL_ROOT_PASSWORD="1234"
ENV MYSQL_DATABASE="studentapp"
COPY init.sql /docker-entrypoint-initdb.d/
```

Dockerfile Explanation :

FROM mysql: -> This line specifies the base image to use, which is the official MySQL Docker image. This image includes all the necessary software and configurations needed to run a MySQL server.

ENV -> These lines set environment variables within the Docker container:

MYSQL_ROOT_PASSWORD is used to set the root password for the MySQL server to "1234".

MYSQL_DATABASE specifies the name of the default database to be created when the MySQL server starts.

COPY init.sql /docker-entrypoint-initdb.d/ -> This line copies an SQL script (init.sql) from the host environment to the docker-entrypoint-initdb.d/ directory in the Docker container.

- The init.sql file contains MySQL commands such as creating a database and tables, and inserting data.
- The docker-entrypoint-initdb.d/ directory is a special directory in the MySQL Docker image that automatically processes any scripts it contains when the container starts.
- This setup allows you to automate the initialization of the MySQL database with your specific schema and data when the container starts.

- Now we need to Create a init.sql file in the mysql directory.
- init.sql file

```
CREATE DATABASE IF NOT EXISTS 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)
);
```

- Now come back to the /home/ec2-user.
- Create a Dockerfile here for our application.

```
FROM tomcat:9.0-slim

WORKDIR /opt

# Set environment variables (consider injecting from outside)
ENV APP_HOME=/usr/local/tomcat
ENV PORT=8080

# Copy application WAR
ADD https://webapp2-akashapp.s3.amazonaws.com/student.war $APP_HOME/webapps/

# Copy database connector
ADD https://webapp-akash.s3.amazonaws.com/mysql-connector-j-8.3.0.jar $APP_HOME/lib

# Copy configuration (consider alternative to sed in multi-stage build)
COPY config /opt
RUN sed -i '20r /opt/config' /usr/local/tomcat/conf/context.xml

EXPOSE $PORT

CMD ["catalina.sh", "run"]
```

Dockerfile Explanation:

- **Base Image: FROM tomcat:9.0-slim :**
- This line specifies the base image as Tomcat 9.0-slim, which is a lightweight version of the official Tomcat 9.0 image.
- **Working Directory: WORKDIR /opt:**
- This line sets the working directory to `/opt` within the Docker container. All subsequent commands that involve file paths will operate relative to this directory.

- **Environment Variables: ENV APP_HOME=/usr/local/tomcat and ENV PORT=8080:**
 - APP_HOME is set to /usr/local/tomcat, specifying the Tomcat home directory where the server is installed.
 - PORT is set to 8080, indicating the default port for the Tomcat server.
-
- **Copying Application WAR File: ADD https://webapp2-akashapp.s3.amazonaws.com/student.war \$APP_HOME/webapps/:**
 - This line downloads the `student.war` file from a specified URL and copies it to the Tomcat webapps directory (`\$APP_HOME/webapps/`).
 - The WAR file contains the application that Tomcat will deploy and run.
-
- **Copying Database Connector: ADD https://webapp-akash.s3.amazonaws.com/mysql-connector-j-8.3.0.jar \$APP_HOME/lib:**
 - This line downloads the MySQL JDBC driver (mysql-connector-j-8.3.0.jar) from a specified URL and places it in the Tomcat lib directory (`\$APP_HOME/lib`).
 - This allows the application to connect to a MySQL database.
-
- **Copying Configuration: COPY config /opt:**
 - This line copies a config file from the host to the /opt directory in the Docker container.
 - This configuration file may contain custom settings or properties needed by the application.
-
- **Injecting Configuration: RUN sed -i '20r /opt/config' /usr/local/tomcat/conf/context.xml:**
 - This line uses the `sed` command to modify the `context.xml` file located in the Tomcat configuration directory (`/usr/local/tomcat/conf/`).
 - The -i flag allows sed to modify the file in place.
 - The 20r /opt/config option tells sed to read the config file and insert its contents into context.xml at line 20.
 - This allows you to inject configuration settings into the context.xml file.
-
- **Exposing Port: EXPOSE \$PORT:**
 - This line exposes the specified port (`\$PORT`, which is set to `8080`) to allow access to the application running in the Tomcat container.

- **Command to Start Tomcat**:** `CMD ["catalina.sh", "run"]:`
- This line specifies the command to start the Tomcat server when the container runs, using the `catalina.sh` script with the `run` argument.
- Now we need to create a file named config in `/home/ec2-user`.
- Add the configuration in config file

```
<Resource name="jdbc/TestDB" auth="Container" type="javax.sql.DataSource"
maxTotal="100" maxIdle="30" maxWaitMillis="10000" username="root"
password="1234" driverClassName="com.mysql.jdbc.Driver"
url="jdbc:mysql://172.17.0.2:3306/studentapp"/>
~
~
```

- Here I have given the IP address of the mysql container.
- When mysql container is created for the first time it has the same IP as given.
- And if there is already one mysql container present and again you create another mysql container the IP increases by 1.
- Now save the file and exit.
- Now our both Dockerfiles and configuration is ready.
- Change directory to mysql.
- Hit command `'docker build -t "database" .'`

```
[root@ip-172-31-26-112 ec2-user]# cd mysql/
[root@ip-172-31-26-112 mysql]# ls
Dockerfile  init.sql
[root@ip-172-31-26-112 mysql]# docker build -t "database" .
[+] Building 16.2s (7/7) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 213B
=> [internal] load metadata for docker.io/library/mysql:latest
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build context
=> => transferring context: 513B
=> [1/2] FROM docker.io/library/mysql:latest@sha256:0f2a15fb8b47db2518b1428239ed3e3fe6a6693401b2cf19552063562cfc2fc4
=> resolve docker.io/library/mysql:latest@sha256:0f2a15fb8b47db2518b1428239ed3e3fe6a6693401b2cf19552063562cfc2fc4
=> sha256:0f2a15fb8b47db2518b1428239ed3e3fe6a6693401b2cf19552063562cfc2fc4 2.51kB / 2.51kB
=> sha256:076e3b41d4fa9b184815b1239e37dd709b6fddfb0e425eebb17c740708915b52 2.86kB / 2.86kB
=> sha256:dd1a4da808dd02e76718ff6f7ac40eb217687bd0fcd253d88238a39da21dc5f4 884B / 884B
=> sha256:3292fb4adf41458b3405e4fab39ac956e9b0f416e99d47965f29da3bd9e69aa 983.00kB / 983.00kB
=> sha256:65f3f983cb09830e9fe51eb4d8855c4c353f7afae9f035e9553148cf6b665eaf 6.53kB / 6.53kB
=> sha256:2ba873cb070a415e56d6738ae3d788d885c6c5f1ff7e83f992de040a8e758b46 51.32MB / 51.32MB
=> sha256:3811c45068cdd835ac871817eea43ac59bfe8495799508c3a2b14892d9a5293e 4.59MB / 4.59MB
=> sha256:6a34d702f2813fc3cf78dabf8d762fe3af066b682a2a968e6ffcfef9482588d4 340B / 340B
=> sha256:e13320244c05a40c7dbd1a258b070d485426553b22eaba4859320d8d3908f327 2.61kB / 2.61kB
=> sha256:de90f448147740b877cd5a67ad605595d4cdca350ee3d1ee6ab9a09062f42b6 63.08MB / 63.08MB
=> sha256:d575200ae3755746a3740ff1224a9cabd56187b00a76f67a02b02d8ec2a8fc48 324B / 324B
=> sha256:aaa400be5707154f3b61c33ae937ff92fd75991ee6e4aa90a1aef9d83ba3087b 63.39MB / 63.39MB
=> sha256:38c930606a4f11cfa2329527166ba39c9ae607166fe9ea129f7f501c2a765d4a 5.18kB / 5.18kB
=> extracting sha256:2ba873cb070a415e56d6738ae3d788d885c6c5f1ff7e83f992de040a8e758b46 3.6s
=> extracting sha256:dd1a4da808dd02e76718ff6f7ac40eb217687bd0fcd253d88238a39da21dc5f4 0.0s
=> extracting sha256:3292fb4adf41458b3405e4fab39ac956e9b0f416e99d47965f29da3bd9e69aa 0.0s
=> extracting sha256:3811c45068cdd835ac871817eea43ac59bfe8495799508c3a2b14892d9a5293e 0.3s
=> extracting sha256:e13320244c05a40c7dbd1a258b070d485426553b22eaba4859320d8d3908f327 0.0s
=> extracting sha256:6a34d702f2813fc3cf78dabf8d762fe3af066b682a2a968e6ffcfef9482588d4 0.0s
=> extracting sha256:de90f448147740b877cd5a67ad605595d4cdca350ee3d1ee6ab9a09062f42b6 2.7s
=> extracting sha256:d575200ae3755746a3740ff1224a9cabd56187b00a76f67a02b02d8ec2a8fc48 0.0s
=> extracting sha256:aaa400be5707154f3b61c33ae937ff92fd75991ee6e4aa90a1aef9d83ba3087b 7.3s
=> extracting sha256:38c930606a4f11cfa2329527166ba39c9ae607166fe9ea129f7f501c2a765d4a 0.0s
[2/2] COPY init.sql /docker-entrypoint-initdb.d/
=> exporting to image
=> exporting layers
=> writing image sha256:80506b4c7c29670bec6dffa0576aa0174b8ba627b5973fa06b9a9f8687595d8
=> naming to docker.io/library/database
[root@ip-172-31-26-112 mysql]# []
```

i-0a3fd32ac32888fea (Dockerfile-3-tier-project)

PublicIPs: 184.72.90.23 PrivateIPs: 172.31.26.112

- Now the image is created from Dockerfile.
- Hit command “docker images” to check the image.
- Hit command “docker run -d -p 3306:3306 database” to run the image in background to create a container.

```
[root@ip-172-31-26-112 mysql]# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
database latest 80506b4c7c29 3 minutes ago 632MB
[root@ip-172-31-26-112 mysql]# docker run -d -p 3306:3306 database
c9cd10bcfe12f69dc061f2181f88afa7b8dd38ac195819f25ab432ae46e0e
[root@ip-172-31-26-112 mysql]# docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
c9cd10bcfe12 database "docker-entrypoint.s..." 4 seconds ago Up 3 seconds 0.0.0.0:3306->3306/tcp, :::3306->3306/tcp, 33060/tcp focused_panini
[root@ip-172-31-26-112 mysql]#
```

i-Oa3fd32ac32888fea (Dockerfile-3-tier-project)

PublicIPs: 184.72.90.23 PrivateIPs: 172.31.26.112

- Now go back to /home/ec2-user.
- Here also we have to run the Dockerfile for our application.
- Hit command ‘docker build -t “app” .’

```
[root@ip-172-31-26-112 mysql]# cd ..
[root@ip-172-31-26-112 ec2-user]# ls
Dockerfile config mysql
[root@ip-172-31-26-112 ec2-user]# docker build -t "app" .
[+] Building 13.1s (13/13) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 649B
=> [internal] load metadata for docker.io/library/tomcat:9.0-slim
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/6] FROM docker.io/library/tomcat:9.0-slim@sha256:d3aa4b550788a079da6fb15017e5eda26225d0c68159c8ac46debbd6df55b647
=> resolve docker.io/library/tomcat:9.0-slim@sha256:d3aa4b550788a079da6fb15017e5eda26225d0c68159c8ac46debbd6df55b647
=> sha256:fc7181108d403205fda45b28dbddfa1cf07e772fa41244e44f53a341b8b1893d 22.49MB / 22.49MB
=> sha256:73f08ce352c86de44048828a8c20f22011f46ef4d03cab7269354f97b131688 2.91MB / 2.91MB
=> sha256:d3aa4b550788a079da6fb15017e5eda26225d0c68159c8ac46debbd6df55b647 549B / 549B
=> sha256:a143857a8fdb10de084c48a9ba3ef40941caf3f1ea065f88b6491f191997d9dc 2.21kB / 2.21kB
=> sha256:a57baec0421e9f20728eac6d21ddfac0e67dcb692d48b39d5db3bc8d6056fed1 17.40kB / 17.40kB
=> sha256:aaa63d497adb0eff8140381f087204abe75558ecb7adc0a7fef0777daee9f9e2 220B / 220B
=> sha256:b9d35e7964a7711a4202c62b9951020562d1033f5a014f8e5b7a109ca321f283 195.21MB / 195.21MB
=> extracting sha256:fc7181108d403205fda45b28dbddfa1cf07e772fa41244e44f53a341b8b1893d 3.3s
=> sha256:0b4fc0b78f4cc7e140b2ab164ef353712fea8bb700507fdf65c514aede9b534e 149B / 149B
=> sha256:9a4fd6e515d047c91c3410346ccdf7794dfcbf402011faa87d8f71d9799a8fee 12.54MB / 12.54MB
=> sha256:39198b2e84f818a21cef3c8c54ed2e8e3af152f1f93dddfef395687aad954b0 374.59kB / 374.59kB
=> sha256:36c698556ef6bba5f59fa4d22c9ede8d8352a8a73448ffff3770503aa29e609c4 11.71MB / 11.71MB
=> sha256:9f3d34868e4dfeaa012ccc0e142f82c9865e4960d2f0a9826491de26d14a5460 130B / 130B
=> extracting sha256:73f08ce352c86de44048828a8c20f22011f46ef4d03cab7269354f97b131688 0.6s
=> extracting sha256:aaa63d497adb0eff8140381f087204abe75558ecb7adc0a7fef0777daee9f9e2 0.0s
=> extracting sha256:b9d35e7964a7711a4202c62b9951020562d1033f5a014f8e5b7a109ca321f283 4.8s
=> extracting sha256:0b4fc0b78f4cc7e140b2ab164ef353712fea8bb700507fdf65c514aede9b534e 0.0s
=> extracting sha256:9a4fd6e515d047c91c3410346ccdf7794dfcbf402011faa87d8f71d9799a8fee 0.3s
=> extracting sha256:39198b2e84f818a21cef3c8c54ed2e8e3af152f1f93dddfef395687aad954b0 0.0s
=> extracting sha256:36c698556ef6bba5f59fa4d22c9ede8d8352a8a73448ffff3770503aa29e609c4 0.4s
=> extracting sha256:9f3d34868e4dfeaa012ccc0e142f82c9865e4960d2f0a9826491de26d14a5460 0.0s
=> [internal] load build context
=> => transferring context: 338B
=> https://webapp2-akash.s3.amazonaws.com/mysql-connector-j-8.3.0.jar
=> https://webapp2-akash.s3.amazonaws.com/student.war
=> [2/6] WORKDIR /opt
=> [3/6] ADD https://webapp2-akash.s3.amazonaws.com/student.war /usr/local/tomcat/webapps/
=> [4/6] ADD https://webapp2-akash.s3.amazonaws.com/mysql-connector-j-8.3.0.jar /usr/local/tomcat/lib
=> [5/6] COPY config /opt
=> [6/6] RUN sed -i '20r /opt/config' /usr/local/tomcat/conf/context.xml
=> exporting to image
=> => exporting layers
=> => writing image sha256:dclaf5509282bc2c9b05397dfdd8b3a1fba6003d23a9fae0b7c6b00bc7d0c48d
=> => naming to docker.io/library/app
[root@ip-172-31-26-112 ec2-user]#
```

i-Oa3fd32ac32888fea (Dockerfile-3-tier-project)

PublicIPs: 184.72.90.23 PrivateIPs: 172.31.26.112

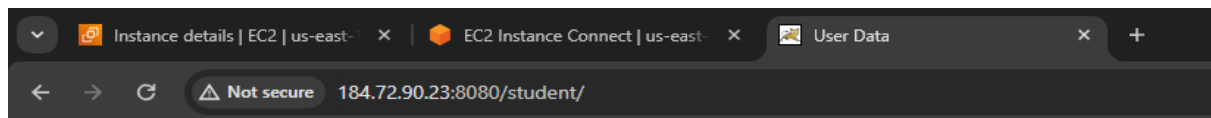
- Now the image is created.
- To check hit command “docker images”.
- Now we need to run the image so that the container will be created.
- Hit command “docker run -d -p 8080:8080 app”.

- To check if the container is running hit command “docker ps”.

```
[root@ip-172-31-26-112 ec2-user]# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
app           latest    dc1af5509282   About a minute ago  424MB
database      latest    80506b4c7c29   8 minutes ago   632MB
[root@ip-172-31-26-112 ec2-user]# docker run -d -p 8080:8080 app
4b8624c5753e2096297c4f82146daad5e5ec9f9d37d8f6ec6950a8e13cd59dc4
[root@ip-172-31-26-112 ec2-user]# docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                                                                 NAMES
4b8624c5753e   app      "catalina.sh run"        8 seconds ago Up 7 seconds  0.0.0.0:8080->8080/tcp, :::8080->8080/tcp  vigorous_colden
c9cd10bcfe12   database "docker-entrypoint.s..." 5 minutes ago Up 5 minutes  0.0.0.0:3306->3306/tcp, :::3306->3306/tcp, 33060/tcp  focused_panini
```

i-0a3fd32ac32888fea (Dockerfile-3-tier-project)
PublicIPs: 184.72.90.23 PrivateIPs: 172.31.26.112

- Now hit the IP address of the instance with port 8080/student.



Student Registration Form

Student Name

Student Address

Student Age

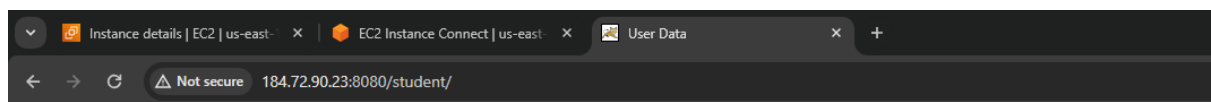
Student Qualification

Student Percentage

Year Passed

register

- Page is loading successfully.
- Now fill the form and click register to check if our data is going to database.



Student Registration Form

Student Name

Student Address

Student Age

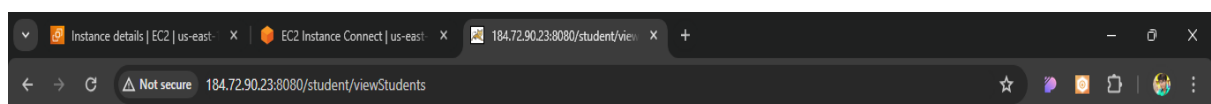
Student Qualification

Student Percentage

Year Passed

register

- Our data is going to the database.



[Register Student](#)

Students List

Student ID	StudentName	Student Addr	Student Age	Student Qualification	Student Percentage	Student Year Passed	Edit	Delete
1	Akash Shinde	PUNE	24	B.E. Mechanical	88	2022	edit	delete

- Here we are building the Docker images from the Dockerfile separately by typing commands.
- We can do the same with script.
- We can write all the commands in a script and execute the script.
- To do the same follow the steps.
- First we need to stop the containers and remove them.

```
[root@ip-172-31-26-112 ec2-user]# docker stop vigorous_colden focused_panini
vigorous_colden
focused_panini
[root@ip-172-31-26-112 ec2-user]# docker rm vigorous_colden focused_panini
vigorous_colden
focused_panini
[root@ip-172-31-26-112 ec2-user]# docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
[root@ip-172-31-26-112 ec2-user]#
```

i-Oa3fd32ac32888fea (Dockerfile-3-tier-project)

PublicIPs: 184.72.90.23 PrivateIPs: 172.31.26.112

- We also need to remove the images.

```
[root@ip-172-31-26-112 ec2-user]# docker images
REPOSITORY    TAG       IMAGE ID       CREATED          SIZE
app            latest    dc1af5509282   10 minutes ago   424MB
database       latest    80506b4c7c29   17 minutes ago   632MB
[root@ip-172-31-26-112 ec2-user]# docker rmi app database
Untagged: app:latest
Deleted: sha256:dc1af5509282bc2c9b05397dfdd8b3a1fbe6003d23a9fae0b7c6b00bc7d0c48d
Untagged: database:latest
Deleted: sha256:80506b4c7c29670becc6dffa0576aa0174b8ba627b5973fa06b9a9f8687595d8
[root@ip-172-31-26-112 ec2-user]# docker images
REPOSITORY    TAG       IMAGE ID       CREATED          SIZE
[root@ip-172-31-26-112 ec2-user]#
```

- Now create a file named script.sh in /home/ec2-user.
- Add the commands in the script.sh file.

```
#!/bin/bash
cd mysql
docker build -t "database" .
docker run -d --name mysql-container -p 3306:3306 database
cd ..
docker build -t "app" .
docker run -d --name app -p 8080:8080 app
```

- Now we need to give the execute permissions to the script.sh file.
- Hit command "chmod +x script.sh" to give execute permissions.

```
[root@ip-172-31-26-112 ec2-user]# vim script.sh
[root@ip-172-31-26-112 ec2-user]# chmod +x script.sh
[root@ip-172-31-26-112 ec2-user]# ll
total 12
-rw-r--r--. 1 root root 551 Apr 16 09:06 Dockerfile
-rw-r--r--. 1 root root 244 Apr 16 09:07 config
drwxr-xr-x. 2 root root 40 Apr 16 08:50 mysql
-rwxr-xr-x. 1 root root 181 Apr 16 10:12 script.sh
[root@ip-172-31-26-112 ec2-user]#
```

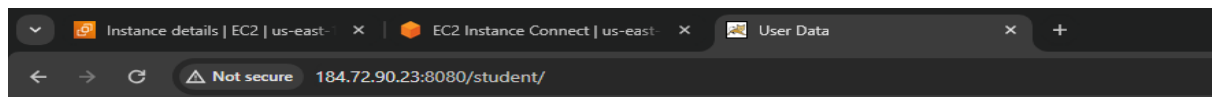

- Now run the script.
- Hit command “./script.sh” to run the script.

```
[root@ip-172-31-26-112 ec2-user]# ./script.sh
[+] Building 0.5s (7/7) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 213B
=> [internal] load metadata for docker.io/library/mysql:latest
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build context
=> => transferring context: 89B
=> [1/2] FROM docker.io/library/mysql:latest@sha256:0f2e15fb8b47db2518b1428239ed3e3fe6a6693401b2cf19552063562cfc2fc4
=> CACHED [2/2] COPY init.sql /docker-entrypoint-initdb.d/
=> exporting to image
=> => exporting layers
=> => writing image sha256:80506b4c7c29670bec6dffa0576aa0174b8ba627b5973fa06b9a9f8687595d8
=> => naming to docker.io/library/database
012fb637faa3d1c27dbf54bf6082de2b6fa5b6ab1d0eda78ed2eef4ac259c99
[+] Building 0.3s (13/13) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 649B
=> [internal] load metadata for docker.io/library/tomcat:9.0-slim
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/6] FROM docker.io/library/tomcat:9.0-slim@sha256:d3aa4b550788a079da6fb15017a5eda26225d0c68159c8ac46debbd6df55b647
=> [internal] load build context
=> => transferring context: 87B
=> https://webapp-akash.s3.amazonaws.com/mysql-connector-j-8.3.0.jar
=> https://webapp2-akash.s3.amazonaws.com/student.war
=> CACHED [2/6] WORKDIR /opt
=> CACHED [3/6] ADD https://webapp2-akash.s3.amazonaws.com/student.war /usr/local/tomcat/webapps/
=> CACHED [4/6] ADD https://webapp-akash.s3.amazonaws.com/mysql-connector-j-8.3.0.jar /usr/local/tomcat/lib
=> CACHED [5/6] COPY config /opt
=> CACHED [6/6] RUN sed -i '20r /opt/config' /usr/local/tomcat/conf/context.xml
=> exporting to image
=> => exporting layers
=> => writing image sha256:dclaf5509282bc2c9b05397dfdd8b3a1fba6003d23a9fae0b7c6b00bc7d0c48d
=> => naming to docker.io/library/app
6071265d211e4e6da8d84370913b9862038bc7453ebf881b9170acab6e7d483e
[root@ip-172-31-26-112 ec2-user]#
```

i-0a3fd32ac32888fea (Dockerfile-3-tier-project)

PublicIPs: 184.72.90.23 PrivateIPs: 172.31.26.112

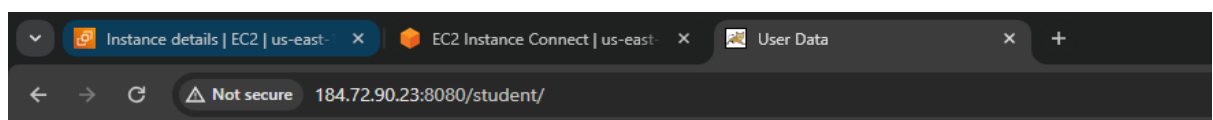
- Now hit the IP address of the instance with port 8080/student.



Student Registration Form

Student Name	<input type="text"/>
Student Address	<input type="text"/>
Student Age	<input type="text"/>
Student Qualification	<input type="text"/>
Student Percentage	<input type="text"/>
Year Passed	<input type="text"/>
<input type="button" value="register"/>	

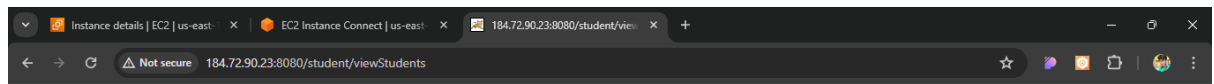
- Page is visible now fill the form and click register to check if the data is being saved in the database.



Student Registration Form

Student Name	<input type="text" value="Akash"/>
Student Address	<input type="text" value="PUNE"/>
Student Age	<input type="text" value="24"/>
Student Qualification	<input type="text" value="B.E. Mechanical"/>
Student Percentage	<input type="text" value="88"/>
Year Passed	<input type="text" value="2022"/>
<input type="button" value="register"/>	

- Data is being saved successfully in the database.



Students List

Student ID	StudentName	Student Addr	Student Age	Student Qualification	Student Percentage	Student Year Passed	Edit	Delete
1	Akash	PUNE	24	B.E. Mechanical	88	2022	edit	delete