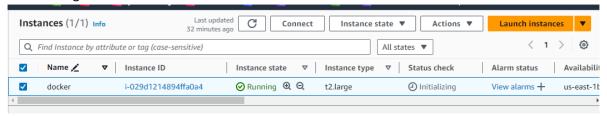
### **ANGULER JAVA PROJECT**

### creating the instance



Login with ssh using public ip of created instance using command

### Ssh -I key username@public ip

```
shivam@DESKTOP-1BLG2M6:~$ ssh -i gargi.pem ubuntu@35.175.233.29
The authenticity of host '35.175.233.29 (35.175.233.29)' can't be established.
ED25519 key fingerprint is SHA256:FeeHQcFCTQQVtiszcAcJsRcw52kzNiFWNndfYuAxPcQ.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '35.175.233.29' (ED25519) to the list of known hosts.
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1012-aws x86_64)

* Decumentation: https://bolo.ubuntu.com
```

Cloning the repository from the provided documentation using command

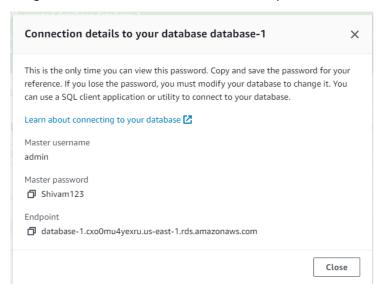
## Git clone https://github.com/rajatpzade/anguler-java.git

```
root@ip-172-31-88-34:~# git clone https://github.com/rajatpzade/anguler-java.git
Cloning into 'anguler-java'...
remote: Enumerating objects: 80, done.
remote: Counting objects: 100% (80/80), done.
remote: Compressing objects: 100% (62/62), done.
remote: Total 80 (delta 3), reused 80 (delta 3), pack-reused 0 (from 0)
Receiving objects: 100% (80/80), 268.11 KiB | 17.87 MiB/s, done.
Resolving deltas: 100% (3/3), done.
root@ip-172-31-88-34:~# ls
anguler-java snap
```

Installing mariadb-server

```
README.md angular-frontend spring-backend springbackend.sql
root@ip-172-31-88-34:~/anguler-java# sudo apt update
sudo apt install mariadb-server
sudo systemctl start mariadb
sudo systemctl enable mariadb
```

Using RDS server we made a database which provided us a end point username and password



Login to mariadb database using endpoint and credential using command

Mysql -h database endpoint -u username -p password

```
root@ip-172-31-88-34:~/anguler-java# mysql -h database-1.cxo0mu4yexru.us-east-1.rds.amazonaws.com -u admin -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 27
Server version: 10.11.8-MariaDB-log managed by https://aws.amazon.com/rds/
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]>
```

Creating a database called springbackend;

Granting all privileges editing username localhost and pass by giving the public ip at localhost admin at username and password which u give to rds database

After creating database we use the database and add the all data given in the documentation

# Checking the data using the given command

```
MariaDB [springbackend]> select * from tbl_workers;
  id
       status
                 | workerfname | workerlname
  1
       Working
                  Ivan
                                 Holicek
  37
       Vacation
                  Marko
                                 Markovic
  40
       Working
                  Ιvο
                                 Ivica
  41
       Working
                  Luka
                                 Lukovic
  42
       Working
                  Filip
                                 Filipovic
5 rows in set (0.003 sec)
```

#### Install docker

```
root@ip-172-31-88-34:~/anguler-java# # Add Docker's official GPG key:
sudo apt-get update
sudo apt-get install ca-certificates curl
sudo install -m 0755 -d /etc/apt/keyrings
sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
sudo chmod a+r /etc/apt/keyrings/docker.asc

# Add the repository to Apt sources:
echo \
   "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \
$(. /etc/os-release && echo "$VERSION_CODENAME") stable" | \
sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
```

Firstly make change in the spring backend;

Create a dockerfile and copying script in the file giving execution permission

```
root@ip-172-31-88-34:~/anguler-java# cd spring-backend/
root@ip-172-31-88-34:~/anguler-java/spring-backend# ls
README.md mvnw mvnw.cmd pom.xml src
root@ip-172-31-88-34:~/anguler-java/spring-backend# touch Dockerfile
root@ip-172-31-88-34:~/anguler-java/spring-backend# ls
Dockerfile README.md mvnw mvnw.cmd pom.xml src
root@ip-172-31-88-34:~/anguler-java/spring-backend# vim Dockerfile
root@ip-172-31-88-34:~/anguler-java/spring-backend# chmod o+x Dockerfile
root@ip-172-31-88-34:~/anguler-java/spring-backend# cd src/
root@ip-172-31-88-34:~/anguler-java/spring-backend/src# ls
main test
root@ip-172-31-88-34:~/anguler-java/spring-backend/src# cd main/
root@ip-172-31-88-34:~/anguler-java/spring-backend/src/main# ls
iava resources
root@ip-172-31-88-34:~/anguler-java/spring-backend/src/main# cd resources/
root@ip-172-31-88-34:~/anguler-java/spring-backend/src/main/resources# ls
application.properties
root@ip-172-31-88-34:~/anguler-java/spring-backend/src/main/resources# vim application.properties
```

Giving RDS endpoint and credentials in the application.properties;

Path cd anguler-java/spring-backend/src/main/resources /application.properties

```
spring.datasource.url=jdbc:mysql://database-1.cxo0mu4yexru.us-east-1.rds.amazonaws.co|m:3306/springbackend?useSSL=false
spring.datasource.username=admin
spring.datasource.password=Shivam123
spring.jpa.generate-ddl=true
~
```

Coming back to spring backend build and run the spring:backend by 8080 port using the commands Docker build -t spring:backend.

Docker run -d -p 8080:8080 spring:backend

```
Dockerfile README.md mvnw mvnw.cmd pom.xml src
root@ip-172-31-88-34:-/anguler-java/spring-backend# docker build -t spring:backend .

[+] Building 74.65 (10/10) FINISHED

=> [internal] load build definition from Dockerfile

=> > transferring dockerfile: 5538

=> [internal] load metadata for docker.io/library/ubuntu:latest

=> [internal] load .dockerignore

=> > transferring context: 2B

=> [i75] FROM docker.io/library/ubuntu:latest@sha256:dfc10878be8d8fc9c61cbff33166cbld1fe44391539243703c72766894fa834a

=> > resolve docker.io/library/ubuntu:latest@sha256:dfc10878be8d8fc9c61cbff33166cbld1fe44391539243703c72766894fa834a

=> > sha256:dfc10878be8d8fc9c61cbff33166cbld1fe44391539243703c72766894fa834a 1.34kB / 1.34kB

=> > sha256:f7d57fd89366f7d16615794a8b53e124d74240402e9f935c22032233f1826bd6a 424B / 424B

=> > sha256:ble9cef3f2977f8bdd19eb9ace04f83b315f80fe4f856551fedf41482c12432f7 2.36kB / 2.36kB

=> > sha256:dafa2b0c44d2cfb0be6721f079092ddf15dc8bc537fb07fe7c3264c15cb2e8e6 29.75MB / 29.75MB

=> extracting sha256:dafa2b0c44d2cfb0be6721f079092ddf15dc8bc537fb07fe7c3264c15cb2e8e6

=> [internal] load build context

=> > transferring context: 87.03kB

=> (2/5) RUN apt-get update && apt-get install -y openjdk-8-jdk maven && rm -rf /var/lib/apt/lists/*

=> [3/5] WORKOIR /app

=> [4/5] COPY . /app

=> (5/5) RUN mvn clean package -Dmaven.test.skip=true

=> exporting to image

=> > writing image sha256:99124eb9674df2d741f32140712b8b50e093e47f4ad29c7b7b6ce1be14351f7c

=> naming to docker.io/library/spring-backend# docker run -d -p 8080:8080 spring:backend

bcbfd6a2fe0de99b7f77044f58dd2a9b11060e974b5a5d5eb8d3cda74e05797d
```

Edit the worker.service.ts file in anguler-frontend/src/app/services/worker.service.ts Give the public ip at the localhost

```
root@ip-17/2-31-88-34:~/anguler-java/angular-frontend# cd src/
root@ip-172-31-88-34:~/anguler-java/angular-frontend/src# ls
app assets environments favicon.ico index.html main.ts polyfills.ts styles.css test.ts
root@ip-172-31-88-34:~/anguler-java/angular-frontend/src# cd app
root@ip-172-31-88-34:~/anguler-java/angular-frontend/src/app# ls
app.component.css app.component.html app.component.spec.ts app.component.ts app.module.ts components models services
root@ip-172-31-88-34:~/anguler-java/angular-frontend/src/app# cd services/
root@ip-172-31-88-34:~/anguler-java/angular-frontend/src/app# cd services# ls
worker.service.ts
root@ip-172-31-88-34:~/anguler-java/angular-frontend/src/app/services# vim worker.service.ts
root@ip-172-31-88-34:~/anguler-java/angular-frontend/src/app/services# cd ./.././
root@ip-172-31-88-34:~/anguler-java/angular-frontend/src/app/services# cd ./../
README.md angular.json karma.conf.js package-lock.json package.json src tsconfig.app.json tsconfig.json tsconfig.spe
root@ip-172-31-88-34:~/anguler-java/angular-frontend# touch Dockerfile
root@ip-172-31-88-34:~/anguler-java/angular-frontend# ts
Dockerfile README.md angular.json karma.conf.js package-lock.json package.json src tsconfig.app.json tsconfig.json
root@ip-172-31-88-34:~/anguler-java/angular-frontend# vim Dockerfile
root@ip-172-31-88-34:~/anguler-java/angular-frontend# vim Dockerfile
root@ip-172-31-88-34:~/anguler-java/angular-frontend# ll

drwxr-xr-x 3 root root 4096 Sep 19 16:07 ../
drwxr-xr-x 5 root root 4096 Sep 19 16:07 ../
-rw-r---1 root root 500 Sep 19 16:07 .browserslistrc
-rw-r---1 root root 717 Sep 19 16:08 Dockerfile*
```

## root@ip-172-31-88-34:~/anguler-java/angular-frontend/src/app/services# vim worker.service.ts

```
Injectable }
         Observable }
         map } from
       { Worker } from
@Injectable({
    providedIn:
 cport class WorkerService {
 private getUrl: string = "http://35.175.233.29:8080/api/v1/workers";
 constructor(private _httpClient: HttpClient) { }
 getWorkers(): Observable<Worker[]> {
      eturn this._httpClient.gettWorker[]>(this.getUrl).pipe(
map(response => response)
   )
 saveWorkers(worker: Worker): Observable<Worker> {
   return this._httpClient.post<Worker>(this.getUrl, worker);
 getWorker(id: Number): Observable<Worker> {
      eturn this._httpClient.get<Worker>('${this.getUrl}/${id}').pipe(
map(response => response)
 deleteWorker(id: Number): Observable<any> {
    return this._httpClient.delete(`${this.getUrl}/${id}`, {responseType: 'text'});
worker.service.ts" 35L, 962B
```

Build and run the anguler-frontend using the command

Docker build -t anguler: frontend .

Docker run -d -p 80:80 anguler:frontend

```
root@ip-172-31-88-34:~/anguler-java/angular-frontend# docker build -t anguler:frontend .
[+] Building 83.4s (14/14) FINISHED

> [internal] load build definition from Dockerfile

> > transferring dockerfile: 7568

> WARN: FromAsCasing: 'as' and 'FROM' keywords' casing do not match (line 2)

=> [internal] load metadata for docker.io/library/nginx:alpine

=> [internal] load detadata for docker.io/library/nginx:alpine

>> transferring context: 2B

=> [stage-1 1/2] FROM docker.io/library/nginx:alpine@sha256:a5127daff3d6f4606be3100a252419bfa84fd6ee5cd74d0feacala5068f97dcf

>> resolve docker.io/library/nginx:alpine@sha256:a5127daff3d6f4606be3100a252419bfa84fd6ee5cd74d0feacala5068f97dcf

>> sha256:0746604130336e3c431b7c6b5b551b5a6ae5b67db13b3d223c6db638f85c7ff56 2.50kB / 2.50kB

>> sha256:074664130336e3c431b7c6b5b551b5a6ae5b67db13b3d223c6db638f85c7ff56 9.07kB / 9.07kB

>> sha256:07b4f2da7d93f4f1f276c5ladb03ef0df54482de89f254a9aec5c18bf6e4See9 11.21kB / 11.21kB

>> sha256:43c44264eed91be63b206e17d93e75256a60997070ce643c5e8f0379998b44f170 3.62MB / 3.62MB

>> extracting sha256:43c44264eed91be63b206e17d93e75256a60997070ce643c5e8f0379998b44f170
```

Check the images using the command docker ps

It show the container

```
root@ip-172-31-88-34:~/anguler-java/angular-frontend# docker run -d -p 80:80 anguler:frontend
07fe74ebc2ad092148c94lbdff0e6ffb9159d8a8696d6faf11398ed1eb10827d
root@ip-172-31-88-34:~/anguler-java/angular-frontend# docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
07fe74ebc2ad anguler:frontend "/docker-entrypoint..." 4 seconds ago Up 4 seconds 0.0.0.880->80/tcp, :::80->80/tcp nervous_mccart
hy
bcbfd6a2fe0d spring:backend "java -jar target/sp..." 6 minutes ago Up 6 minutes 0.0.0.8808->8080/tcp, :::8080->8080/tcp youthful_babba
```

Hit the public ip address provided by the instance

# Successfully hosted



Workers				
	<u>teturn</u>			
	rushi	magar	сео	Add Worker
				Delete
Modified By CloudBlitz				

Successfully adding the data to the worker table

#### Workers Add Worker Search by Name **First Name Last Name** Status **E**dit Button **Delete Button** Order Delete 1. Ivan Holicek Working <u>Edit</u> 2. Markovic Vacation Delete Marko <u>Edit</u> 3. Ivo lvica Working <u>Edit</u> Delete 4. Luka Lukovic Working <u>Edit</u> Delete 5. Filip **Filipovic** Working <u>Edit</u> Delete 6. shivam godambe ceo <u>Edit</u> Delete 7. rushi <u>Edit</u> Delete magar ceo