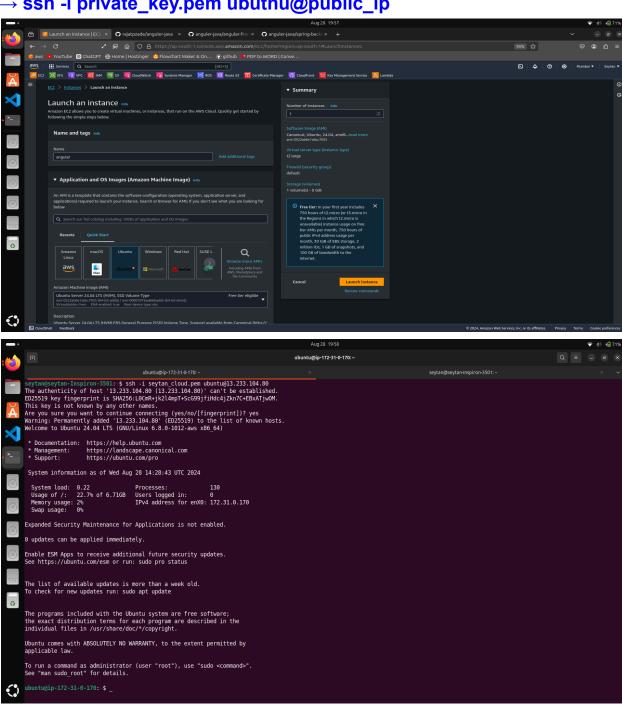
Task: Angular-Java App Deployment on EC2 Instance.

### Step 1:Create an EC2 Instance and get its connection by using following command

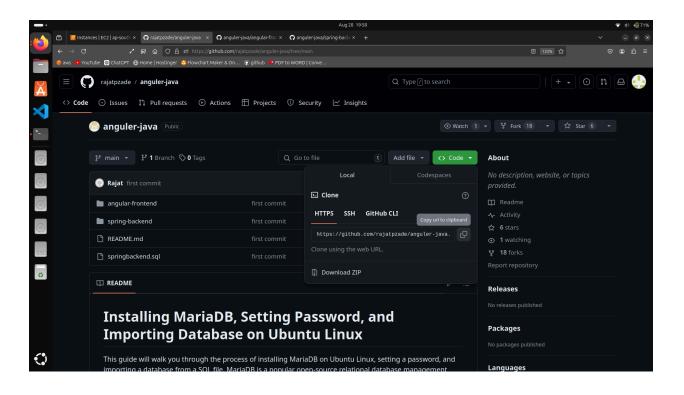
→ ssh -i private\_key.pem ubutnu@public\_ip



#### Step 2:

Now Clone the git repository on ec2.

git clone <a href="https://github.com/rajatpzade/anguler-java.git">https://github.com/rajatpzade/anguler-java.git</a>



```
ubuntu@ip-172-31-0-170:~

ubuntu@ip-172-31-0-170:~

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 | 10.72 MiB/s, done.
Resolving deltas: 100% (3/3), done.
ubuntu@ip-172-31-0-170:~$
```

Step 3: Update the system and install mariadb database.

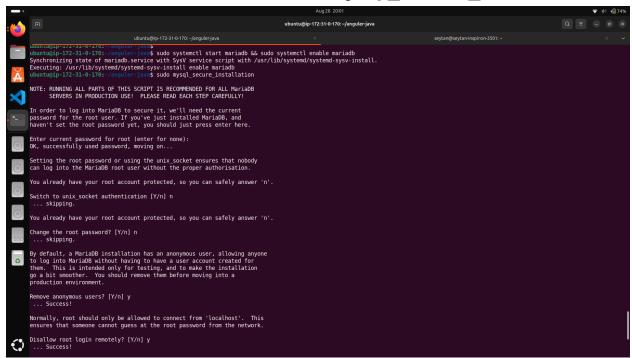
Commands:

sudo ant update

sudo apt update sudo apt install mariadb-server sudo systemctl start mariadb sudo systemctl enable mariadb

```
intu@ip-172-31-0-170:~$ cd anguler-java/
intu@ip-172-31-0-170:~/anguler-java$ sudo apt update && sudo apt install mariadb-server -y
::1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
::2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
::3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
::4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
[4 Packages 6881 kB/15.0 MB 46%] [Waiting for headers]_
```

#### Now use the command → sudo mysql\_secure\_installation



Step 4: Now login to database and use following commands. Login command: sudo mysql -u root -p

## Database commands: CREATE DATABASE springbackend; GRANT ALL PRIVILEGES ON springbackend.\* TO 'root'@'localhost' IDENTIFIED BY '123';

Now, exit.

Then import the database from angular-java directory to our database.

#### **Use command:**

sudo mysql -u root -p springbackend < springbackend.sql

```
ubuntu@ip-172-31-0-170:~/anguler-java$ ls
README.md angular-frontend spring-backend springbackend.sql
ubuntu@ip-172-31-0-170:~/anguler-java$ sudo mysql -u root -p springbackend < springbackend.sql
Enter password:
ubuntu@ip-172-31-0-170:~/anguler-java$ _</pre>
```

## **Step 5:** Now go to springbackend folder and follow the next instructions.

#### **Use command:**

sudo apt update && sudo apt install openjdk-8-jdk -y && sudo apt install maven -y

```
ubuntu@ip-172-31-0-170:-/anguler-java$ sudo apt update && sudo apt install openjdk-8-jdk -y && sudo apt install maven -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... 7%
```

#### Step 6:

Now go to /angular-java/springbackend/src/main/resources/

And edit the application.properties there set the username to root and password to what you set during mariadb installation.



## Step 7: Now go back to springbackend directory and run the following command .

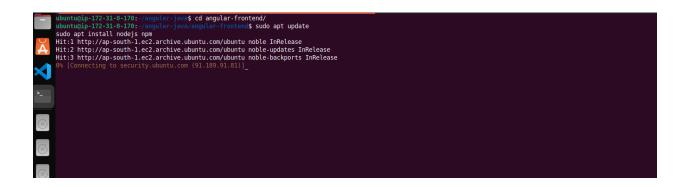
 $\longrightarrow$ 

### mvn clean package -Dmaven.test.skip=true



# Step 8: Now go to the angular-frontend directory and run the following command.

# sudo apt update sudo apt install nodejs npm



#### Step 9: Now install angular cli globally by the command:

### sudo npm install -g @angular/cli@14.2.1

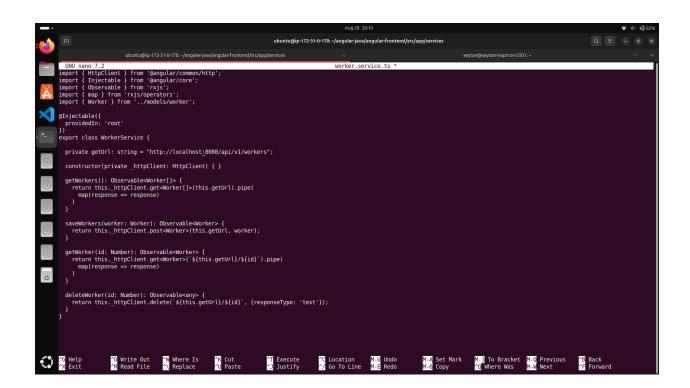
```
ubuntu@ip-172-31-0-170:-/anguler-java/angular-frontend$ sudo npm install -g @angular/cli@14.2.1

( idealTree:inquirer: timing idealTree:node_modules/@angular/cli/node_modules/inquirer Completed in 78ms
```

Step 10:Now go to the src/app/services directory and edit the worker.service.ts file .

```
ubuntu@ip-172-31-0-170:-/anguler-java/angular-frontend$ cd src/app/services/
ubuntu@ip-172-31-0-170:-/anguler-java/angular-frontend/src/app/services$ sudo nano worker.service.ts _
```

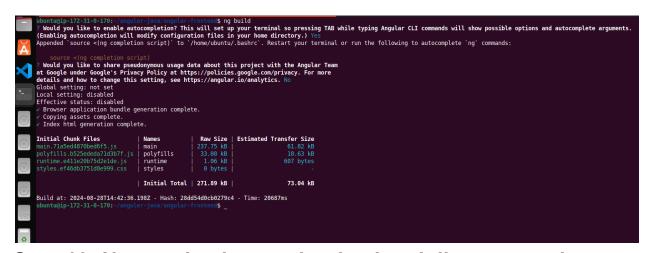
Replace the localhost in the file with public ip of instance.



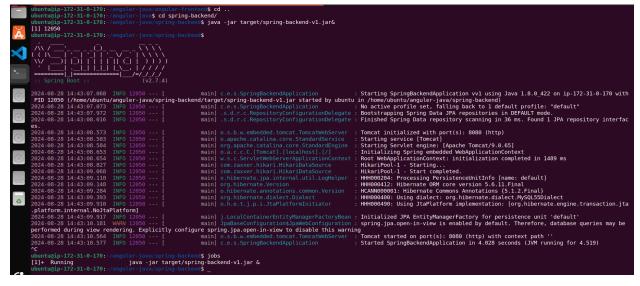
## Step 11: Now go back to angular-frontend and run the npm install command.



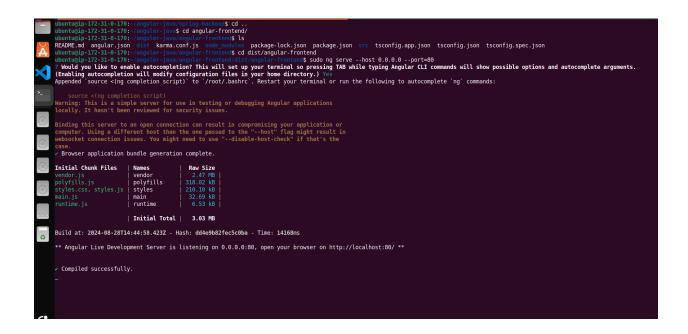
Step 12: Now run the <u>ng build</u> command it will create a dist/angular-frontend in the directory of angular-java/angular-frontend



Step 13: Now go back to spring-backend directory and run the following command in background. java -jar target/spring-backend-v1.jar &



Step 14: After this go to the newly created directory dist/angular-frontend in the angular-java/angular-frontend And run the <u>sudo ng serve --host 0.0.0.0 --port=80</u> command.



Step 15: Now You can paste the public ip in the browser and see the output.

#### **Output:**

		Wor	kers		
dd Worker					Search by Name
Order	First Name	Last Name	Status	Edit Button	Delete Button
1.	Ivan	Holicek	Working	Edit	Delete
2.	Marko	Markovic	Vacation	Edit	Delete
3.	Ivo	Ivica	Working	Edit	Delete
4.	Luka	Lukovic	Working	Edit	Delete
5.	Filip	Filipovic	Working	Edit	Delete
		Modified E	y Cloudniitz		

#### You can add worker and see the result as bellow.

