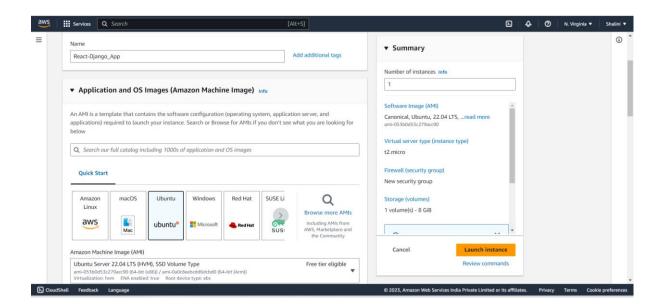
# React\_Django\_App

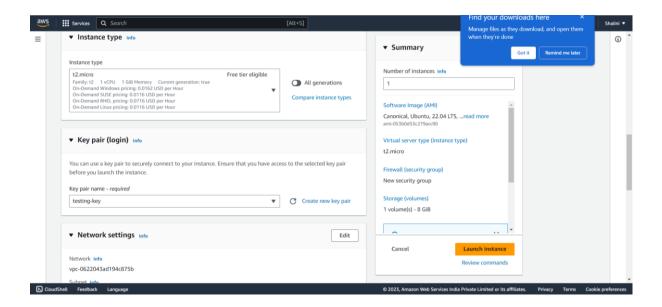
## Create a sample project help of a docker file

## Lab - 1: Creating an EC2 Instance

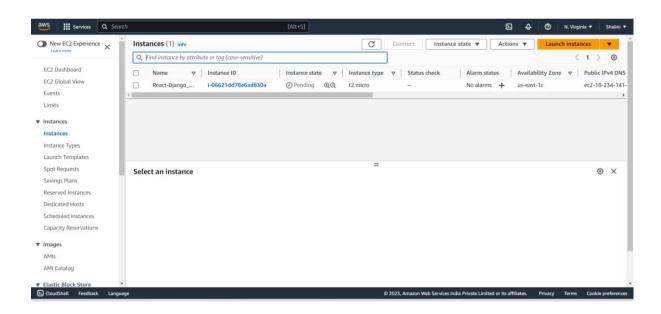
- 1. To create your EC2 instance, go to Amazon EC2 in the AWS console.
- 2. Click the button that says Launch instance to open the instance creation.



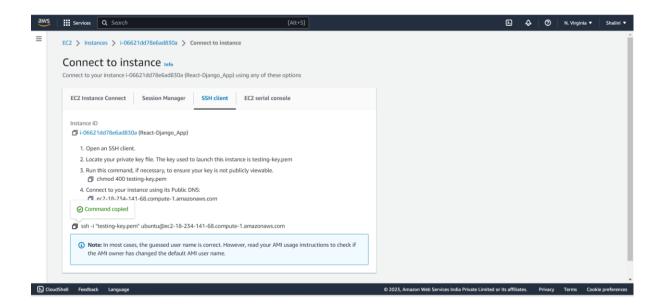
- 3. I have given the instance name React Django-app
- 4. For this I choose the amazon linux operating system



- 4. I have taken my existing key pair that is testing-key
- 5. Selected the existing security group with allowing port 8001



Successfully launched the ec2 instance.



6. Copied the ssh address to connect to the terminal

## **SSH into your EC2 Instance**

1. We are accessing the command line interface with ssh command

```
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\kotap> cd .\Downloads\
PS C:\Users\kotap> cd .\Downloads\kotap> compated and pole contapp> cd .\Downloads\kotapp> cd .\D
```

Module - 2: Installing Docker

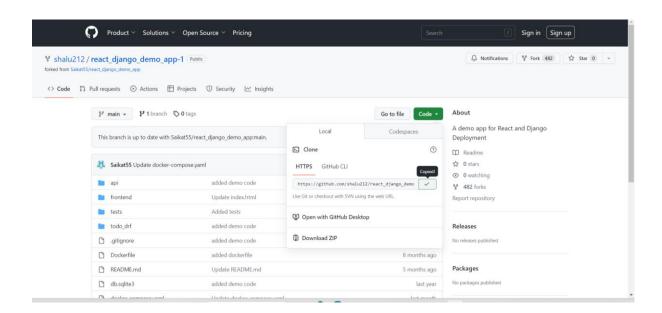
- 1. we have to install the docker in our instance by using below command.
- sudo apt install docker.io

#### start the docker service:

- **2.** After installing docker, start the docker service by running the following command.
- sudo systemctl start docker
- **3.** I haven given the permission to the docker demon in oder to work with docker by running the below command.
- sudo chmod 666 /var/run/docker.sock

## Cloning project source code from github

1. I copied the code from from github.



- 2. Cloned the project source code using the command.
  - git clone <a href="https://github.com/shalu212/react\_django\_demo\_app-1.git">https://github.com/shalu212/react\_django\_demo\_app-1.git</a>

```
ubuntuBjp-172-31-94-8:-$
```

3. change the directory to the project directory where your application code is located.

```
react_django_demo_app-1
ubuntu@ip-172-31-94-0;-$
ubuntu@ip-172-31-94-0;-$ cd react_django_demo_app-1/
ubuntu@ip-172-31-94-0;-$ cd react_django_demo_app-1/
ubuntu@ip-372-31-94-0;-$ cd react_django_demo_app-15 cdd_vi_Dockerfile
```

## cd react\_django\_demo\_app-1

4. In project directory create a new file named "Dockerfile" by running the following command .

#### touch Dockerfile

5. By using **sudo vi Dockerfile** command opened the vim editor.

```
ubuntu@ip-1/2-31-94-9:~$
ubuntu@ip-1/2-31-94-9:~$ cd react_django_demo_app-1/
ubuntu@ip-172-31-94-0:~/react_django_demo_app-1$ sudo vi Dockerfile
ubuntu@ip-172-31-94-0:~/react_django_demo_app-1$ 7L, 1448 written
ubuntu@ip-172-31-94-0:~/react_django_demo_app-1$
ubuntu@ip-172-31-94-0:~/react_django_demo_app-1$
```

6. Edit the Dockerfile and spcify the instructions for building the docker image.

You can see my dockerfile below.

FROM: To pull the base image. FROM is the mandatory keyword specifies the base image.

WORKDIR: workdir is used to specify the default directory where the command will be excuted . setting the working directory inside container.

COPY: COPY is used to copy files from host mechine to the container directory .

RUN: it excutes command. That can be repeated multiple times. It is used to provide the linux commands like installing packages, uninstalling, upgrading and creating directories.

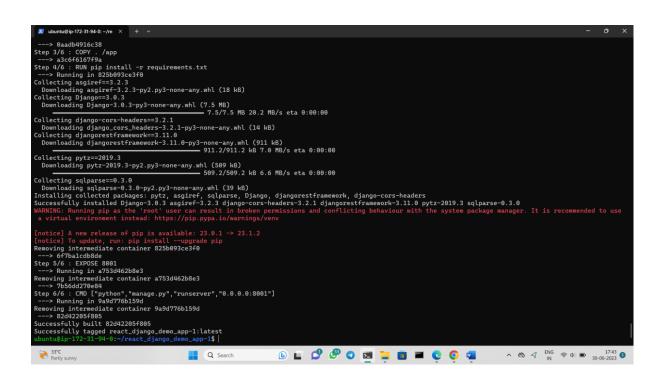
EXPOSE: The keyword EXPOSE specifies the port number that's need to be exposed on the container.

CMD: it provides defaults for an excuting container . if you want run commands during execution you can use CMD . whatever we mention it is replaceable.

```
### Q ubwntw@p=772-31-94e-1-5 gst clone https://github.com/shalu212/react_django_demo_app-1.git
Cloning into 'react_django_demo_app-1'...
remote: Facet_diango_demo_app-1'...
remote: Facet_diango_demo_app-1'...
remote: Facet_diango_demo_app-1'...
remote: Facet_diango_demo_app-1'...
remote: Facet_diango_demo_app-1'...
remote: Facet_diango_demo_app-1'...
remote: Total 179 (dalta 48), reused 155 (dalta 34), pack-reused 0
Receiving deltas: 1898 (48/48), done.
Resolving deltas: 1898 (48/48), done.

#### Abuntw@p=772-31-94e-1-5
### A
```

- 7. Save the docker file and exit the text editor by using :wq!.
- 8. After creating the dockerfile, run the following command to build the docker image.
- 9. The command to create docker image
  - > docker build -t react-Django-app-1.

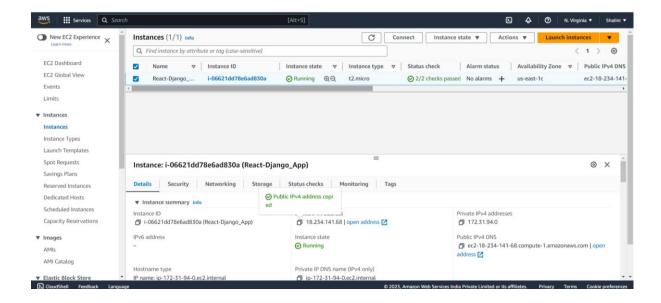


### Successfully created the docker image

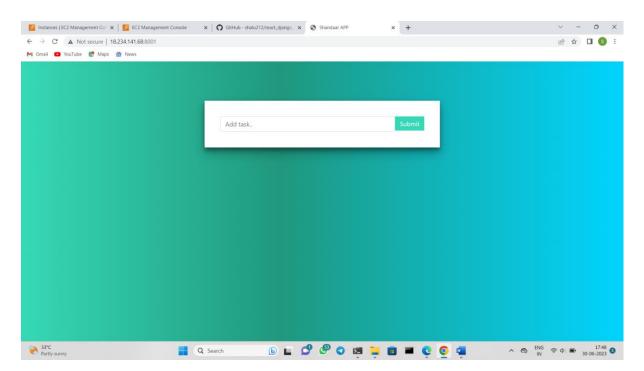
- 10. After building the docker image run the following command the to start the docker container.
- 11. The command to create container from docker image is.
  - docker run -t -d --name web -p 8001:8001 react\_django\_demo\_app-1

```
| Secretary | Part | Pa
```

- 12. To see if container is successfully created or not run the **docker ps** command it will shows the running containers.
- 13. My docker container is successfully created you can see in the above image and Browse the app. 19. Once the docker container is running. you can browse the app by opening web browser and navigating to the public ip of your instance, followed by the **port 8001.**



#### http://18.234.141.68:8001/



And the lastly, I had look to see that this was running correctly