Pratik Chandrakant Borge

Node js web app in docker

Step 1:- Create an EC2 instancePorts:22, 3000

Step 2:- Connect to EC2 instance

Step 3:- Install Docker Engine latest version
   https://docs.docker.com/engine/install/ubuntu/   (for ubuntu)

Step 4:- Create Dockerfile

```
FROM ubuntu:22.04
LABEL engg="prat"

USER root
RUN apt update
RUN apt install nodejs npm -y
RUN git clone https://github.com/owanhunte/nodejs-chat-app.git
WORKDIR /nodejs-chat-app
RUN npm install
EXPOSE 3000
CMD [ "npm" ,"start" ]
```

Build image from dockerfile

```
root@ip-172-31-30-167:~/Pract/nodejs# docker build .
[+] Building 161.2s (10/10) FINISHED
 => [internal] load build definition from Dockerfile
 => => transferring dockerfile: 270B
 => [internal] load metadata for docker.io/library/ubuntu:22.04
 => [internal] load .dockerignore
 => => transferring context: 2B
 => CACHED [1/6] FROM docker.io/library/ubuntu:22.04@sha256:77906da86b60585ce12215807090eb327e7386c8fafb5402369e421f44eff17e
 => [2/6] RUN apt update
 => [3/6] RUN apt install nodejs npm -y
 => [4/6] RUN git clone https://github.com/owanhunte/nodejs-chat-app.git
 => [5/6] WORKDIR /nodejs-chat-app
 => [6/6] RUN npm install
 => exporting to image
 => => exporting layers
 => => writing image sha256:3c505896b3f64288f4949e53d97c6021dbc354cac6d710d34fc005857118c929
root@ip-172-31-30-167:~/Pract/nodejs# docker images
REPOSITORY    TAG        IMAGE ID       CREATED          SIZE
<none>        <none>     3c505896b3f6   About a minute ago   965MB
```

Step 5:- Create container using Image

docker run -d -p 3000:3000 <imageID>

```
<none>        <none>     3c505896b3f6   About a minute ago   965MB
root@ip-172-31-30-167:~/Pract/nodejs# docker run -d -p 3000:3000 3c5
3b70fa341374c81e36d7f70bc3af71bfcee53413c2c57a37faa48453fa985b3e
root@ip-172-31-30-167:~/Pract/nodejs# docker ps
CONTAINER ID   IMAGE   COMMAND       CREATED        STATUS        PORTS                                          NAMES
3b70fa341374   3c5     "npm start"   2 seconds ago  Up 2 seconds  0.0.0.0:3000->3000/tcp, :::3000->3000/tcp     eager_bhabha
```

Step 6:- Copy instanceIP and paste into browser