**Git Hub Link: https://github.com/sanyogyadav/Dockerizing-Angular.git**

**Repository Name**: Dockerizing-Angular

**Project Details:**

1. First we will create a folder named **ANGULAR-DOCKER.**
2. Create a repository inside github named “Dockerizing-Angular”.
3. Create angular project by running command “ng new Dockerizing-Angular”.
4. Connect angular project with github using above mentioned github link.
5. Write some line of codes inside “app.component.html”.
6. Now commit the changes on github.
7. We will now build the angular application using “ng build” command. It will create one folder named dist which will be used for creating docker image file later on.
8. Next we will commit the changes and create a dockerfile using nginx server.
9. Run the Docker Desktop application at your machine to let docker start running.
10. Now to create docker image run the command as follows: docker build -t my-docker-phase4-2023 . -f Dockerfile
11. After creating the image run the image with follow command: docker run -d -p 81:80 my-docker-phase4-2023
12. After successfully running the image, we can view our project by using following URL at browser <http://localhost:81>
13. As image is running fine login to docker hub by using command docker login inside command prompt and providing the username and password details.
14. By running the docker ps command we can see the current running images and to view all present images run command “docker images”.
15. Now we will tag our docker image by running following command: docker tag my-docker-phase4-2023 markheavens/my-docker-phase4-2023:1.0
16. Now our image is ready to publish into docker hub account and to do that run the following command: docker push markheavens/my-docker-phase4-2023:1.0
17. As soon as we run above command and refresh the docker hub account page in browser you can view the image is being pushed and ready to use by others.
18. Now, login with your AWS account and create and EC2 instance.
19. As we have now created instance with name “Docker\_Instance\_phase4”
20. While creating instance make sure to save the file with extension .pem saved properly.
21. Now, open the git bash where .pem file is saved and connect it with your EC2 terminal using SSH key which was received after creating instance under connect section.
22. As soon as it connected run below commands to install necessary things for our project.
23. sudo yum -y update : To update the EC2 instance
24. sudo yum install git -y : To install the git
25. curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.39.3/install.sh | bash : To install node
26. . ~/.nvm/nvm.sh : Install node version manager
27. nvm install –lts : To enable node version manager
28. nvm install 16 : To install specific version
29. sudo yum -y install docker
30. sudo service docker start
31. sudo usermod enable --now docker
32. sudo usermod -a -G docker ec2-user
33. sudo usermod -aG docker ec2-user
34. After running all the above commands run the docker pull and run command to run the application.
35. When application is up you can access by ip address provided by ec2 followed by expose port number. In our case it is mentioned below: <http://35.168.23.195:81/>
36. Pull command: docker pull markheavens/my-docker-phase4- 2023:1.0
37. Run command: docker run -d -p 81:80 markheavens/my-docker-phase4-2023:1.0