Dockerizing the Jenkins Pipeline - Project 1

This project is built using below tools/softwares.

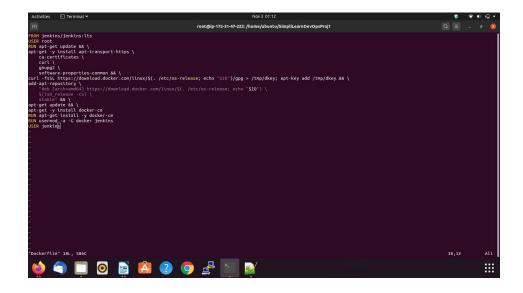
- Docker To build the application in a Docker container and push it to Docker Hub
- Docker Hub You need the account and one repository to push the docker image
- GitHub to store application code
- Git to pull and push the app code
- Linux (Ubuntu) As a base operating system to start and execute the project
- Jenkins To automate the deployment process during continuous integration

Before going to step 1 make sure you have Jenkins installed and configured with required plug-ins

*2 Plug-ins required for this project, NodeJS and Docker Pipeline, steps are listed below.

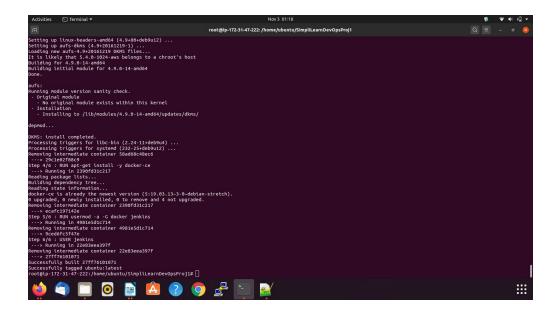
Step 1 - Create the Dockerfile

https://github.com/anisha-thakkar2020/SimpliLearnDevOpsProj1/blob/main/Dockerfile



Step 2 Build Docker image with below command

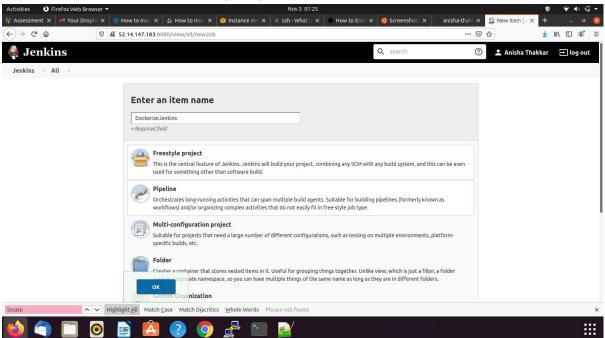
docker build -t ubuntu .



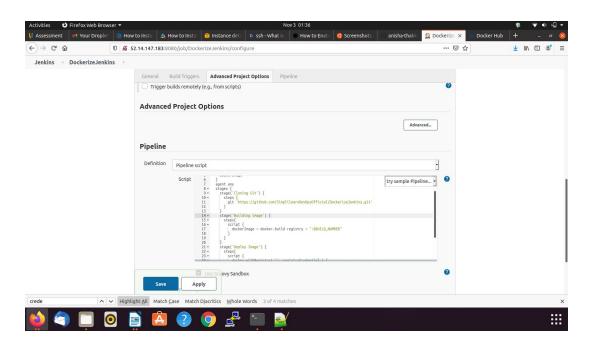
Step 3 - Create the Pipeline in Jenkins

3.1 Jenkins->New Item->

Give the project name DockeringJenkins Select the Pipeline as a project type



3.2 Copy the script from below link in the Pipeline script in Jenkins and click Save https://github.com/anisha-thakkar2020/SimpliLearnDevOpsProj1/blob/main/PipelineScript_DockerImage



Step 4. Add Dockerhub credential

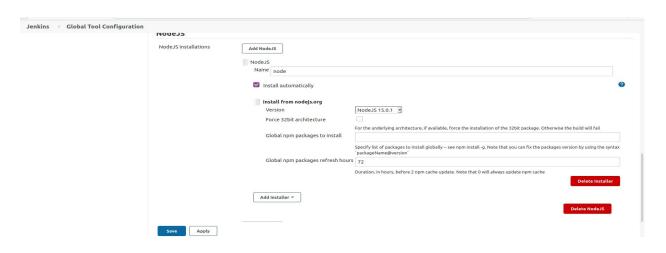
- 4.1 Go to Manage Jenkins->Manage Credentials->Global Credentials
- 4.2 Add your Docker hub credentials, give "dockerhb" for ID and description field and save it.

Step 5. Download NodeJs and Docker Pipeline plug-ins

- 5.1 Go to Manage Jenkins->Manage Plug-ins->Available
- 5.2 Search for "NodeJS", and install the plug-in
- 5.3 Search for "Docker Pileline" and install it
- 5.4 Restart Jenkins once plug-ins are installed.

Step 6 Configure Node.js

- 6.1 Go to Manage Jenkins->Global Tool Configuration
- 6.2 Under NodeJs, give the name as "node" and select nodejs 9+ version to install



Step 7. Build the Pipeline Project

7.1 Go to Jenkins->DockerizeJenkins->Build Now

