Jenkins-Project-2

BUILDING DOCKERFILE AND CONTAINER USING JENKINS PIPELINE: DEVOPS PROJECT 2

Objectives

- i. Create a new job in Jenkins
- ii. Give a name and select Pipeline template
- iii. Write the Jenkins pipeline with the following instructions:
 - 1. Fetch the code using Github plugin
 - 2. Build the code using maven plugin
 - 3. Write a shell command to build an image out of .war file using Docker commands
 - 4. Push the image into the Docker Hub repo
 - 5. Deploy the image
- iv. Run the Jenkins Job
- v. Check the results on each of Terminal, Web browser, Docker hub website.

Jenkins Pipeline Code

```
pipeline{
  tools{
```

```
maven 'mymaven'
    }
    agent any
    stages{
        stage('Fetch the code')
        {
            steps{
                git 'https://github.com/Sonal0409/MavenBuild-
Docker-GitHubActions.git'
            }
        }
        stage('Build the Code'){
            steps{
                sh 'mvn package'
            }
        }
        stage('Build the dockerfile')
        {
            steps{
                sh 'docker build -t mycontimage .'
            }
        }
        stage('Push the image to Docker hub')
        {
            steps{
              sh 'docker tag mycontimage mahmouuud123123/dev
opsproject'
              sh 'docker login --username mahmouuud123123 --p
assword mahmouuud123123'
```

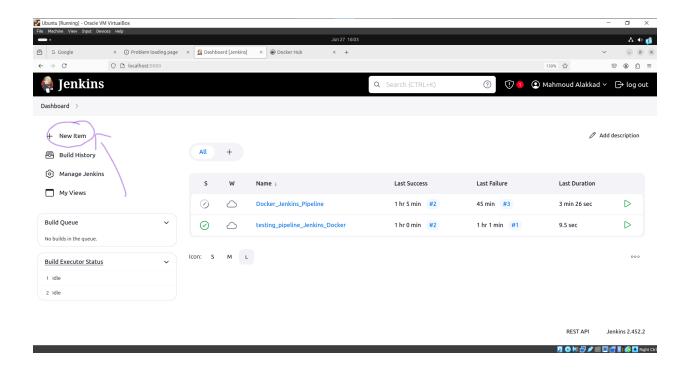
```
sh 'docker push mahmouuud123123/devopsproject'

}

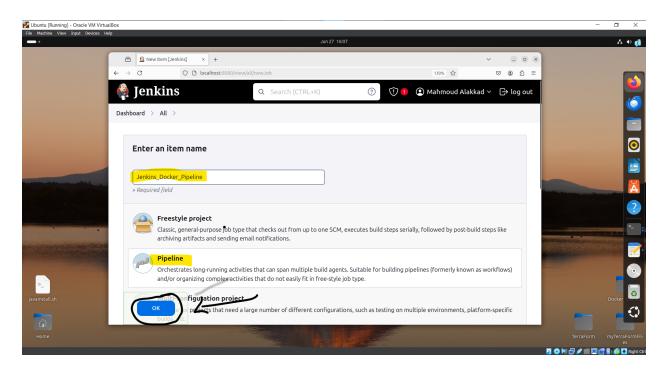
stage('Deploy the Image')
{
    steps{
       sh 'docker run -d -P mycontimage '
      }
}
```

Project Implementation

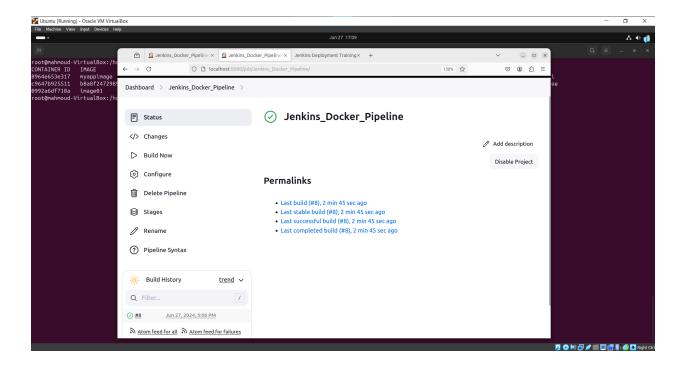
i. Creating a new Job in Jenkins



ii. Give a name and select Pipeline template

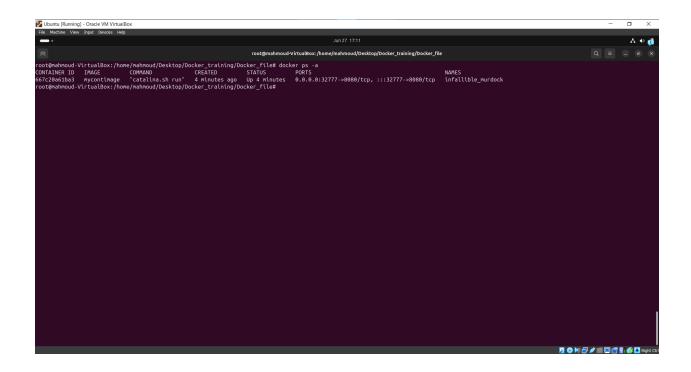


iii. Implementing Jenkins Pipeline

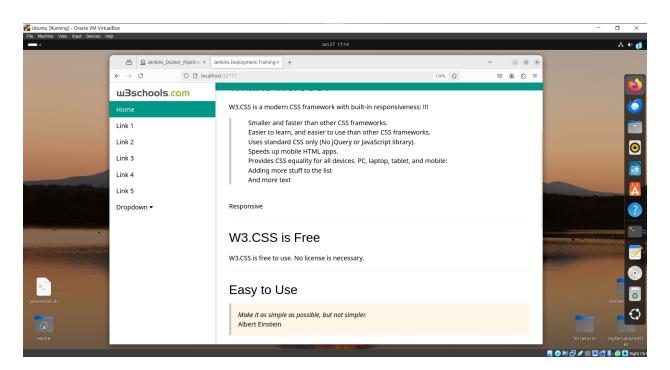


Checking Results:

Terminal



Web Browser



Docker Hub

