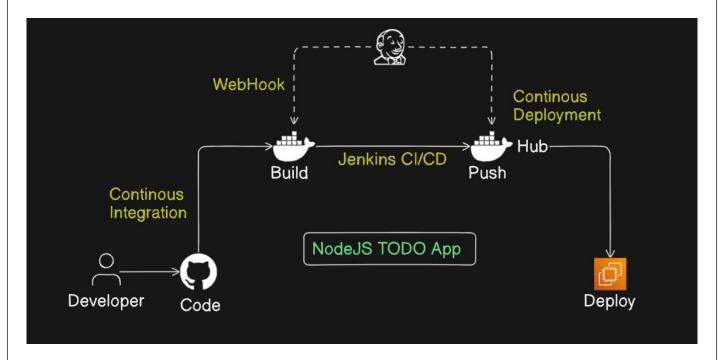
NodeJS application deployment using Jenkins CI/CD

Find detailed blog at ->

1. Architecture of Project-

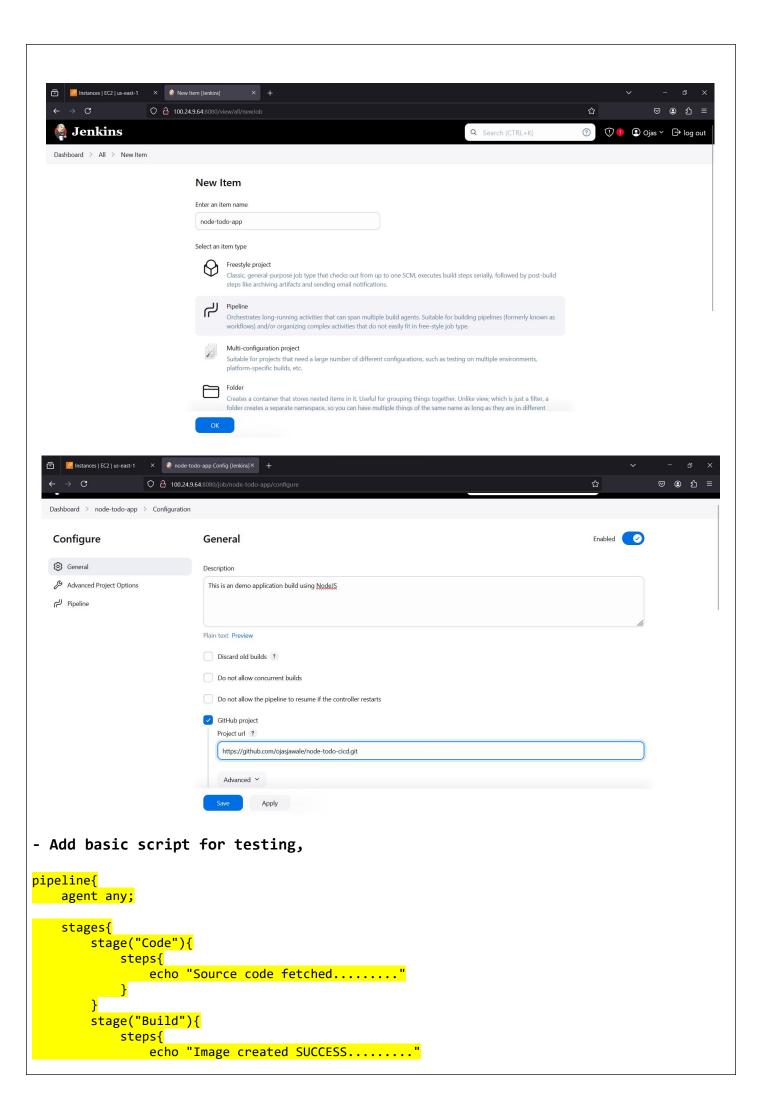


2. Setup GitHub repository for source code and CI

- GitHub repository used -> node-todo
- Note: If you need detailed overview you can also view this Blog.

3. Setup Job on Jenkins for application

- Create EC2 instance for Jenkins server
- Update repository packages
- Create Job,



```
}
        stage("Push"){
                steps{
                       echo "Pushing to dockerhub....."
        stage("Deploy"){
                steps{
                     echo "Deployement done....."
                        X 👰 Node-App [Jenkins]
    Instances | EC2 | us-east-1
                                                                                                                                                      ତ 😉 ପ୍ର
Dashboard > Node-App >

✓ Node-App

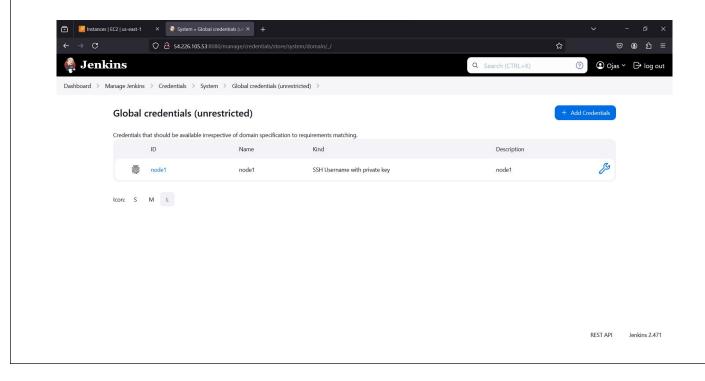
                                                                                                                                                    Edit description
 </>
Changes
                                      Project name: node-todo-app
This is an demo application build using NodeJS
 D Build Now
                                      Permalinks
 (Configure
 Delete Pipeline
                                         • Last build (#2), 3 min 14 sec ago

Last stable build (#2), 3 min 14 sec ago
Last successful build (#2), 3 min 14 sec ago

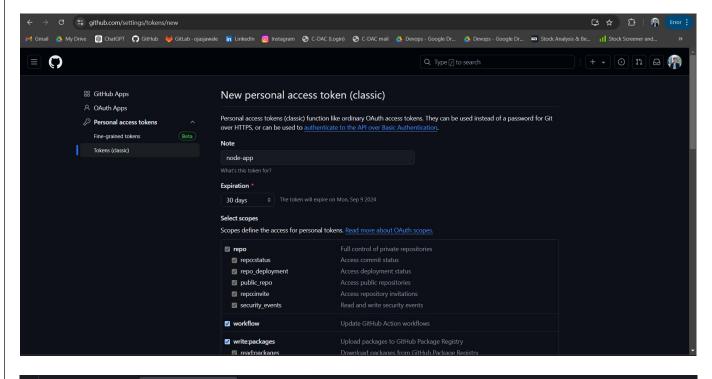
 GitHub
                                         • Last completed build (#2), 3 min 14 sec ago
 Stages
 Rename
 Pipeline Syntax
 GitHub Hook Log
```

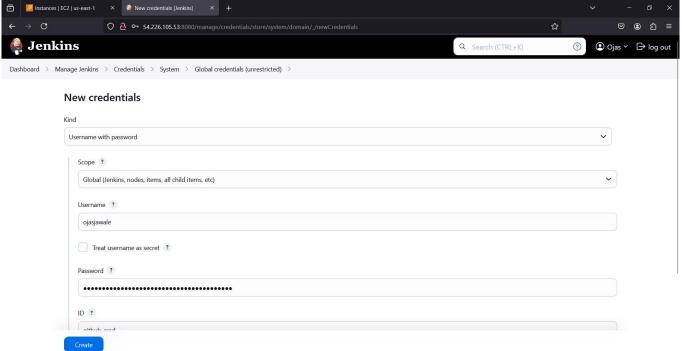
4. Setup security credentials in Jenkins

I. GitHub credentials



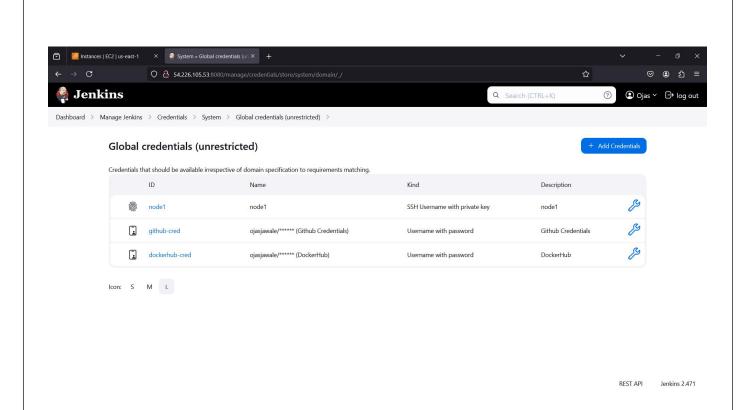
- Go to Github.com and create Personal Access Token.

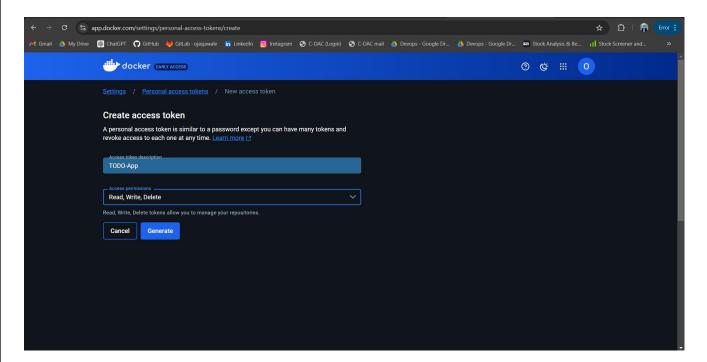




II. DockerHub Credentials

Go to, Dashboard -> Manage Jenkins -> Credentials -> System -> Global credentials -> Add Credentials

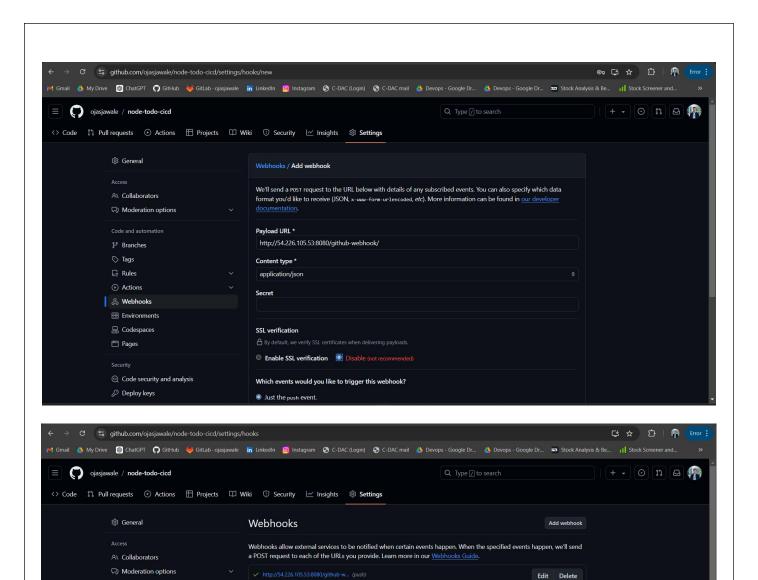




5. Setup GitHub WebHook

Go to repository -> Setting -> Webhook -> Add WebHook

Payload URL -: http://IP_of_Jenkins:8080/github-webhook/



6. Setup CI/CD pipeline

Code security and analysisDeploy keys

Code and automation

P Branches

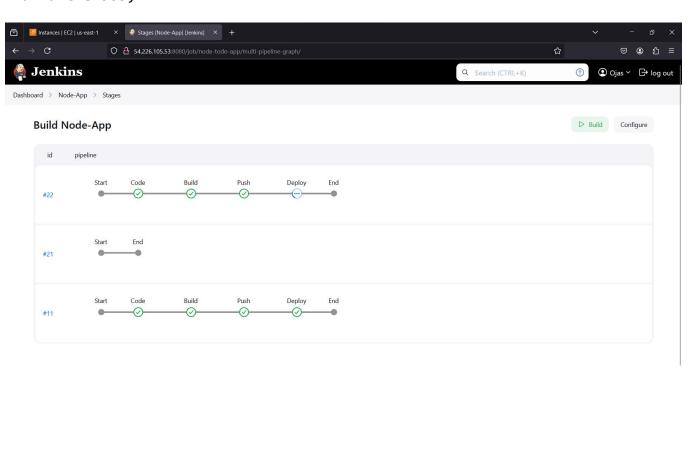
Rules
Actions

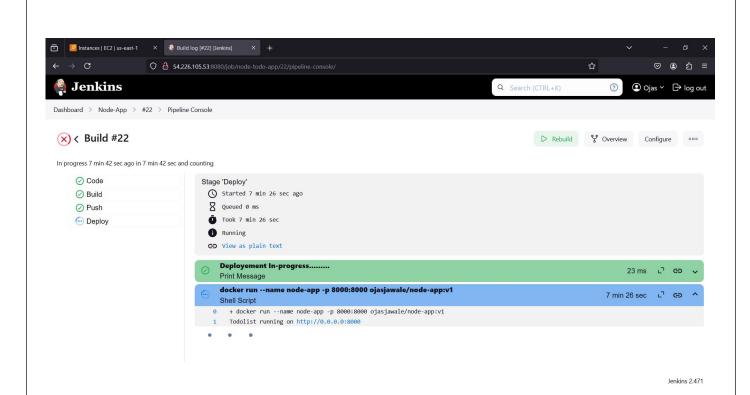
Webhooks

☐ Codespaces

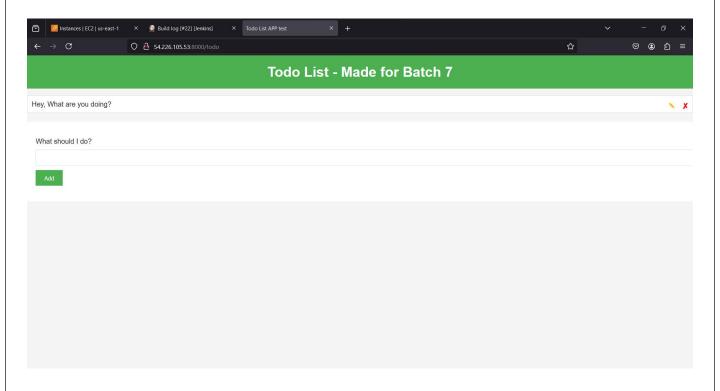
```
sh 'docker build -t node-app:v1 .'
             echo "Image Build SUCCESS....."
       stage("Push"){
          steps{
              withCredentials([usernamePassword(credentialsId: 'dockerhub-cred',
sh 'docker image tag node-app:v1 ${DOCKER_USER}/node-app:v1'
              sh 'docker push ${DOCKER USER}/node-app:v1'
              echo "Image pushed to DockerHub successfully....."
       stage("Deploy"){
          steps{
              echo "Deployement In-progress....."
              sh 'docker stop node-app && docker rm node-app'
              sh 'docker run --name node-app -p 8000:8000 ojasjawale/node-app:v1'
              echo "Deployement SUCCESS....."
}
```

- Build the Job,





- Access application,



Ojas Jawale





