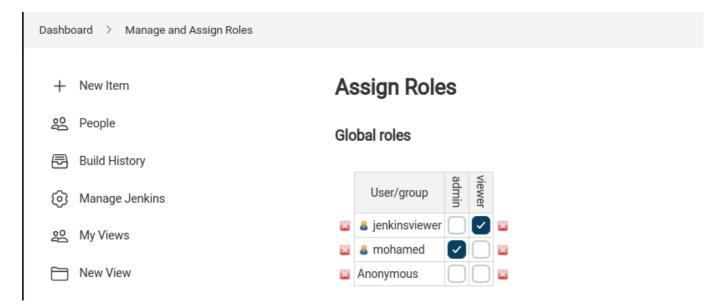
## **Jenkins**

1. install jenkins with docker image

- 2. install role based authorization plugin
- 3. create new user
- 4. create read role and assign it to the new user



5. create free style pipeline and link it to private git repo(inside it create directory and create file with "hello world")

```
23:47:41 Avoid second fetch
23:47:41 > git rev-parse refs/remotes/origin/main^{commit} # timeout=10
23:47:41 Checking out Revision 0a72a35cb393820b806e28d1e4852f499e067ce1 (refs/remotes/origin/main)
23:47:41 > git config core.sparsecheckout # timeout=10
23:47:41 > git checkout -f 0a72a35cb393820b806e28d1e4852f499e067ce1 # timeout=10
23:47:41 Commit message: "first commit"
23:47:41 > git rev-list --no-walk 0a72a35cb393820b806e28d1e4852f499e067ce1 # timeout=10
23:47:41 [freestyle] $ /bin/sh -xe /tmp/jenkins17282188499962367539.sh
23:47:41 + echo ###----Start build-----####
23:47:41 ###----Start build-----###
23:47:41 + echo ###----End build-----###
23:47:41 + echo ###----End build-----###
23:47:41 Finished: SUCCESS
```

1. create declarative in jenkins GUI pipeline for your own repo to do "ls"

```
pipeline {
    agent any
    stages {
        stage('Preparation') {
            steps {
                checkout changelog: false, poll: false, scm: [$class:
'GitSCM', branches: [[name: '*/main']], extensions: [], userRemoteConfigs:
[[credentialsId: 'github', url: 'https://github.com/mohamedanwer006/iti-
lab.git']]]
            }
        }
        stage('Build') {
            steps {
                 sh 'ls -R'
            }
        }
    }
}
```

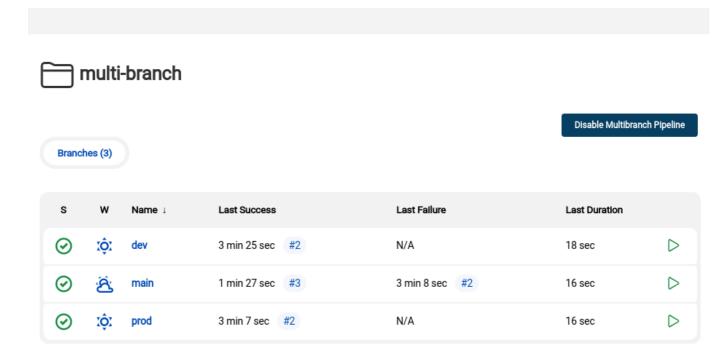
2. create scripted in jenkins GUI pipeline for your own repo to do "ls"

```
node {
    stage('Preparation') { // for display purposes
    // Get some code from a GitHub repository
    checkout changelog: false, poll: false, scm: [$class: 'GitSCM',
branches: [[name: '*/main']], extensions: [], userRemoteConfigs:
```

```
[[credentialsId: 'github', url: 'https://github.com/mohamedanwer006/iti-
lab.git']]]
    }
    stage('Build') {
        sh 'ls -R'
    }
}
```

```
The recommended git tool is: NONE
using credential github
> git rev-parse --resolve-git-dir /var/jenkins home/workspace/declarative/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/mohamedanwer006/iti-lab.git # timeout=10
Fetching upstream changes from https://github.com/mohamedanwer006/iti-lab.git
> git --version # timeout=10
> git --version # 'git version 2.30.2'
using GIT ASKPASS to set credentials
> git fetch --tags --force --progress -- https://github.com/mohamedanwer006/iti-lab.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 40c0b8b2e2ld6c76e206d1302c5l302d5f78daaf (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 40c0b8b2e2ld6c76e206d1302c51302d5f78daaf # timeout=10
Commit message: "Create README.md"
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (build)
[Pipeline] sh
+ ls -R
README.md
dir
./dir:
file.txt
```

3. create the same with jenkinsfile in your branches as multibranch pipeline



- 4. try to create jenkins image with casc and install slack notification plugin and main suggested plugins inside it
- 5. casc will contain creation of user and creation of credential for your dockerhub