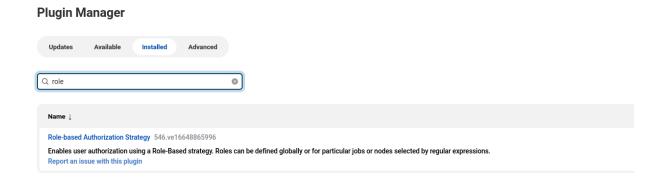
Jenkins

1) install jenkins with docker image.



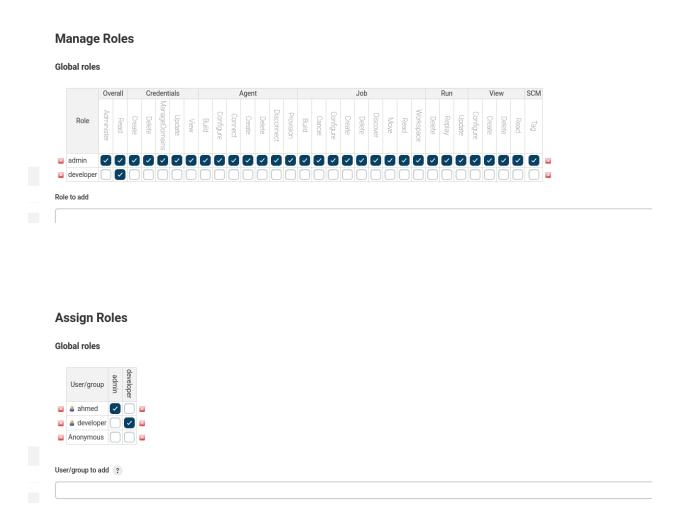
2) install role based authorization plugin.



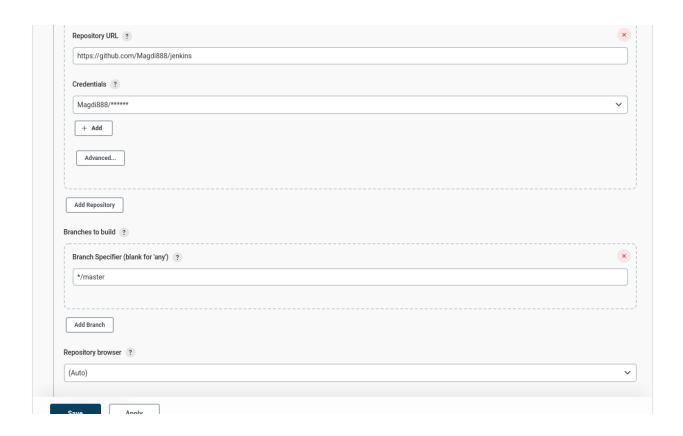
3) create new user.



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").





Console Output

```
Started by user ahmed
Running as SYSTEM
Building in workspace /var/jenkins_home/workspace/lab-1
The recommended git tool is: NONE
using credential git-token
> git rev-parse --resolve-git-dir /var/jenkins_home/workspace/lab-1/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/Magdi888/jenkins # timeout=10
Fetching upstream changes from https://github.com/Magdi888/jenkins
> 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/Magdi888/jenkins +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision clcf759e8393da9378f7b75ebe333af8ac5d4706 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f c1cf759e8393da9378f7b75ebe333af8ac5d4706 # timeout=10
Commit message: "Create read.txt"
First time build. Skipping changelog.
[lab-1] $ /bin/sh -xe /tmp/jenkins7981502310826555311.sh
+ mkdir dev
+ echo hello world
Finished: SUCCESS
```

6) create declarative in jenkins GUI pipeline for your own repo to do "Is".

```
[Pipeline] Start of Pipeline [Pipeline] node
Running on <code>Jenkins</code> in <code>/var/jenkins_home/workspace/declarative</code>
[Pipeline] stage
[Pipeline] { (code)
[Pipeline] git
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/Magdi888/Terraform > git init /var/jenkins_home/workspace/declarative # timeout=10
Fetching upstream changes from https://github.com/Magdi888/Terraform > git --version # timeout=10 > git --version # 'git version 2.30.2'
 > git feth -tags -force -progress -- https://github.com/Magdi888/Terraform +refs/heads/*:refs/remotes/origin/* # timeout=10 >> git config remote.origin.url https://github.com/Magdi888/Terraform # timeout=10
> jit config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10 Avoid second fetch
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10 Checking out Revision 18f47d79f48ae5728123dbe93c3f2c469dff613d (refs/remotes/origin/master)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f 18f47d79f48ae5728123dbe93c3f2c469dff613d # timeout=10 > git branch -a -v --no-abbrev # timeout=10
> git checkout -b master 18f47d79f48ae5728123dbe93c3f2c469dff613d # timeout=10 Commit message: "lambda func to SES"
First time build. Skipping changelog.
[Pipeline] sh
+ ls
backend.tf
database.tf
ec2-enctances.tf
key-pairs.tf
lambdaFuncForSES
main.tf
prod.tfvars
```

7) create scripted in jenkins GUI pipeline for your own repo to do "Is".



```
Started by user ahmed
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/jenkins_home/workspace/declarative
[Pipeline] {
[Pipeline] stage
[Pipeline] { (code)
[Pipeline] git
The recommended git tool is: NONE
No credentials specified
 > 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/Magdi888/Terraform # timeout=10
Fetching upstream changes from https://github.com/Magdi888/Terraform
 > git --version # timeout=10
 > git --version # 'git version 2.30.2'
 - git fetch --tags --force --progress -- https://github.com/Magdi888/Terraform +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking \ out \ Revision \ 18f47d79f48ae5728123dbe93c3f2c469dff613d \ (refs/remotes/origin/master)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f 18f47d79f48ae5728123dbe93c3f2c469dff613d # timeout=10
 > git branch -a -v --no-abbrev # timeout=10
 > git branch -D master # timeout=10
 > git checkout -b master 18f47d79f48ae5728123dbe93c3f2c469dff613d # timeout=10
Commit message: "lambda func to SES"
> git rev-list --no-walk 18f47d79f48ae5728123dbe93c3f2c469dff613d # timeout=10
[Pipeline] sh
+ ls
backend.tf
database.tf
dev.tfvars
ec2-enctances.tf
key-pairs.tf
lambdaFuncForSES
main.tf
network
```

8)Multibranch

