How to setup Gerrit on Jenkins and Jenkins voter on Gerrit

How to setup Gerrit on Jenkins

1. install Gerrit trigger plugin (https://wiki.jenkins-ci.org/display/JENKINS/Gerrit+Trigger)
2. Go to Jenkins > Manage Jenkins > Gerrit Trigger
3. Create Gerrit Server
4. Fill in the details as shown in the picture

Gerrit Connection Setting

Name	cbnode_voter
No Connection On Startup	☐
Hostname	prod-gerrit.alucloud.local
Frontend URL	http://prod-gerrit.alucloud.local:8080/
SSH Port	29418
Proxy	
Username	cbnode_voter
E-mail	cb_node@jenkins.voter
SSH Keyfile	/root/.ssh/id_rsa_jenkins_voter
SSH Keyfile Password		

☐ Build Current Patches Only

How to setup Jenkins Job to work with Gerrit

1. Create a free-style job
2. For SCM, Choose git and Fill in the details as shown in the picture

⦿ Git
Repositories

Repository URL | ssh://cbnode_voter@135.248.16.21:29418/gerrit_main.git

Credentials | - none - ▼ | 🔌 Add

Name | origin

Refspec | $GERRIT_REFSPEC

Branches to build

Branch Specifier (blank for 'any') | $GERRIT_BRANCH

Repository browser

gitweb

URL | http://prod-gerrit.alucloud.local:8080/gitweb?p=test.git

Additional Behaviours

▦ **Strategy for choosing what to build**

Choosing strategy | Gerrit Trigger

> ⊘ IMPORTANT - the address of the Gerrit server **MUST** be the same as it is configured in the config file in the **"Configure a new voter for a project"** section below

How to setup Jenkins voter on Gerrit

It is possible to send commands to Gerrit via ssh from another server - from the Gerrit server I didn't test it

Set Admin User with SSH Key

1. In order to work with Gerrit command line tools, we need to create a new SSH Key pair for the Gerrit Admin Server. (This key pair is for **Gerrit Administrator**)

```
ssh-keygen -t rsa -C "<GERRIT_ADMIN_EMAIL_ADDRESS>"
```

2. Now we will add the public key (.pub) to the SSH Keys of the admin user via the Gerrit Web UI
   a. Login to Gerrit with administrator (the first user that logs in to Gerrit after it is installed, is set to be the admin. Then he is able to set also others as admins)
   b. go to settings > SSH Public Keys
   c. Add the public key that you created

3. Add the following section to the config file that you have under ~/.ssh (if you do not have this file, create it and chmod it with 0644)

```
host gerrit-admin                        ##<- This is the alias that we will
use when sending commands to Gerrit>
   user dshai                            ##<- Login name of the gerrit Admin
   hostname prod-gerrit.alucloud.local   ##<- This is the full qualified
Domain of the Gerrit server
   identityfile ~/.ssh/id_rsa_gerrit_admin  ##<- This is the full path to the
public key that you added to your user before
   port 29418                            ##<- This is the port
```

Configure a new voter for a project

1. Create a new account on gerrit, called **cbnode_voter** with this command

```
ssh gerrit-admin gerrit create-account cbnode_voter
```

2. Create a new SSH key pair. (This key pair is for **Jenkins Voter** - Here we will name it **id_rsa_jenkins_voter**)

```
ssh-keygen -t rsa -C "<JENKINS_VOTER_EMAIL_ADDRESS>"
```

3. Once you have the keys, copy the value of the Public key
4. Use the value you copied in this command in order to add to the new user this keyl

```
cat id_rsa_jenkins_voter.pub | ssh gerrit-admin gerrit set-account cbnode_voter
--add-ssh-key -
```

5. in order that cbnode_voter will be able to act as real voter, we will have to add this user to the AAA group in Gerrit UI
    a. Login to Gerrit http://prod-gerrit.alucloud.local:8080/#/admin/groups/
    b.   Add this user to the Non-Interactive Users Group
6. Add this section to the config file under **~.ssh** folder

```
host 135.248.16.21
    user cbnode_voter
    hostname 135.248.16.21
    identityfile ~/.ssh/id_rsa_jenkins_voter
    port 29418
```