

Gerrit and Jenkins setup

We are performing a setup with gerrit and jenkins using docker

Docker install

We use *docker-ce-cli* as package

```
apt-get install docker-ce-cli
```

create env.sh

```
export IP=10.0.3.1
```

Run gerrit with persistance

```
. env.sh
docker run -it --rm -p $IP:8080:8080 -p $IP:29418:29418 \
  -v gerrit-a:/var/gerrit/etc \
  -v gerrit-b:/var/gerrit/git \
  -v gerrit-c:/var/gerrit/db \
  -v gerrit-d:/var/gerrit/index \
  -v gerrit:/var/gerrit/cache \
  -e CANONICAL_WEB_URL=http://$IP:8080/ \
  gerritcodereview/gerrit
```

Run jenkins with persistance

```
. env.sh
docker run -it --rm -p $IP:8090:8080 -v jenkins_home:/var/jenkins_home jenkins/jenkins
```

Configure gerrit

go to <http://10.0.3.1:8080/>

>> skip intro >> Admin settings ssh key (upload key)

```
cat .ssh/id_rsa.pub | xclip -selection clipboard
```

Clone the All-project to add the verified label

```
git clone "ssh://admin@10.0.3.1:29418/All-Projects"
cd All-Projects
git fetch origin refs/meta/config:refs/remotes/origin/meta/config
git config user.name "admin"
git config user.email "admin@example.com"
```

Edit project.config to add the Verified block at the end

```
[label "Verified"]
  function = MaxWithBlock
  value = -1 Fails
  value = 0 No score
  value = +1 Verified
```

Push back the changes

```
git add project.config
git commit -m "Adding a verified label"
git push origin HEAD:meta/config
```

Create a jenkins user

```
ssh -p 29418 admin@$IP gerrit create-account jenkins
```

Create an ssh key

```
. env.sh
ID=`docker ps | grep jen | sed "s,.*,,g"`
docker exec -it $ID bash
cd
ssh-keygen
```

Upload it to gerrit

```
. env.sh
ID=`docker ps | grep jen | sed "s,.*,,g"`
docker cp $ID:/var/jenkins_home/.ssh/id_rsa.pub .
cat id_rsa.pub | ssh -p 29418 admin@$IP gerrit set-account --add-ssh-key - jenkins
```

Allow to connect between jenkins and gerrit

```
ufw allow from 172.17.0.3/24 to 10.0.3.1/24
```

Add jenkins to the non interactive users

```
. env.sh
ssh -p 29418 admin@10.0.3.1 gerrit set-members "Non-Interactive\ Users" --add jenkins
```

Try connecting to gerrit from the jenkins user

```
. env.sh
ID=`docker ps | grep jen | sed "s,.*,,g"`
docker exec -it $ID ssh -p 29418 jenkins@$IP gerrit ls-projects
```

Following the [Gerrit trigger official documentation](#)

```
Admin > Projects > ...■ > Access > Edit
Reference: refs/*
  Read: ALLOW for Non-Interactive Users
Reference: refs/heads/*
  Label Code-Review: -1, +1 for Non-Interactive Users
  Label Verified: -1, +1 for Non-Interactive Users
```

Create a gerrit_test project

```
. env.sh
ssh -p 29418 admin@10.0.3.1 gerrit create-project gerrit_test
```

Upload the test repo

```
. env.sh
cd repo
git remote rm origin
git remote add origin ssh://admin@$IP:29418/gerrit_test
git push origin master

gitdir=$(git rev-parse --git-dir); scp -p -P 29418 admin@$IP:hooks/commit-msg ${gitdir}/hooks/
```

Setup jenkins

open to <http://10.0.3.1:8080/>

```
. env.sh
ID=`docker ps | grep jen | sed "s,.*, ,g"`
docker exec -it $ID cat /var/jenkins_home/secrets/initialAdminPassword | xclip -selection clipboard
```

Login

Select install suggested plugins create the admin account

user

admin

passwd

admin2k

Install the gerrit-trigger plugin

Configure the plugin by adding a server (select the few options to enable the abort functionality)

▲ Gerrit Missed Events Playback is not supported. Verify if the connection has the REST API enabled and that the Gerrit Events-log plugin is installed and configured on the Gerrit Server.

Gerrit Connection Setting

Name	<input type="text" value="gerrit"/>	?
No Connection On Startup	<input type="checkbox"/>	?
Hostname	<input type="text" value="10.0.3.1"/>	?
Frontend URL	<input type="text" value="http://10.0.3.1:8080/"/>	?
SSH Port	<input type="text" value="29418"/>	?
Proxy	<input type="text"/>	?
Username	<input type="text" value="jenkins"/>	?
E-mail	<input type="text"/>	?
SSH Keyfile	<input type="text" value="/var/jenkins_home/ssh/id_rsa"/>	?
SSH Keyfile Password	<div>Concealed</div> <div>Change Password</div>	?
<input checked="" type="checkbox"/> Build Current Patches Only		?
Abort new patch sets	<input checked="" type="checkbox"/>	?
Abort manual patch sets	<input checked="" type="checkbox"/>	?
Abort patch sets with same topic	<input checked="" type="checkbox"/>	?

Success

Test Connection

Create a new job gerrit_test_builder FreeStyle project

Jenkins plugin setup