Gerrit 搭建、运行

By Volshell

Gerrit 安装

安装前

        JDK1.6 +

        从http://code.google.com/p/gerrit/下载Gerrit。

```
cpeiot@IOT-GP3:~/gerrit$ ll
total 43660
-rw-r--r--  1 cpeiot cpeiot 44701651  8?28 12:56  gerrit-2.11.2.war
```

开始安装

cpeiot@IOT-GP3:~/gerrit$

        java -jar gerrit-2.11.2.war init -d review-site

Gerrit 安装（续）

需要注意：
*** SQL Database*** 可以是默认H2，建议变更。
*** User Authentication*** 多种验证方式选择
                                development_become_any_account
Java runtime   [/usr/lib/jvm/java-7-openjdk-amd64/jre]:
Listen on port   [29418]: **SSH port**
Listen on port   [8080]: 8088 **HTTP port**
Create administrator user   [Y/n]? y
username   [admin]:
name   [Administrator]:
email   [admin@example.com]:

Gerrit start/stop/restart

gerrit是自动启动的
手动启停
　　在gerrit目录下bin
　　./gerrit.sh start/stop/restart

Gerrit Administrator

打开浏览器输入 http://localhost:8088
根据个人设置的端口来配置。

Sign In

Username:		Become Account
Email Address:		Become Account
Account ID:		Become Account
Choose:	Administrator	

Register

New Account

Gerrit Administrator

Add SSH public-key

Gerrit other users

Gerrit manage

gsql

重启Gerrit

Mysql

```
+----------------------------------+
| Tables_in_gerrit                 |
+----------------------------------+
| account_diff_preferences         |
| account_external_ids             |
| account_group_by_id              |
| account_group_by_id_aud          |
| account_group_id                 |
| account_group_members            |
| account_group_members_audit      |
| account_group_names              |
| account_groups                   |
| account_id                       |
| account_patch_reviews            |
| account_project_watches          |
| account_ssh_keys                 |
| accounts                         |
| change_id                        |
| change_message_id                |
| change_messages                  |
| changes                          |
| patch_comments                   |
| patch_set_ancestors              |
| patch_set_approvals              |
| patch_sets                       |
| schema_version                   |
| starred_changes                  |
```

```
cpeiot@IOT-GP3:~/gerrit/review-site/etc$ vi gerrit.config
[gerrit]
        basePath = git
        canonicalWebUrl = http://IOT-GP3:8088/
[database]
        type = mysql
        hostname = localhost
        database = gerrit
        username = cpeiot
[index]
        type = LUCENE
[auth]
        type = DEVELOPMENT_BECOME_ANY_ACCOUNT
[sendemail]
        smtpServer = localhost
[container]
        user = cpeiot
        javaHome = /usr/lib/jvm/java-7-openjdk-amd64/jre
[sshd]
        listenAddress = *:29418
[httpd]
        listenUrl = http://*:8088/
[cache]
        directory = cache
~
```

Gerrit 验证安装

使用命令： ssh –p 29418 -i ~/.ssh/id_rsa localhost - l admin

```
cpeiot@IOT-GP3:~$ ssh -p 29418 -i ~/.ssh/id_rsa  localhost -l admin
The authenticity of host '[localhost]:29418 ([127.0.0.1]:29418)' can't be established
RSA key fingerprint is 7e:43:c7:06:46:32:98:33:29:80:89:f4:bc:40:18:bb.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '[localhost]:29418' (RSA) to the list of known hosts.

  ****     Welcome to Gerrit Code Review     ****

  Hi Administrator, you have successfully connected over SSH.

  Unfortunately, interactive shells are disabled.
  To clone a hosted Git repository, use:

  git clone ssh://admin@IOT-GP3:29418/REPOSITORY_NAME.git

Connection to localhost closed.
cpeiot@IOT-GP3:~$
```

Gerrit 验证安装

```
cpeiot@IOT-GP3:~/workspace/test$ cd ~/.ssh
cpeiot@IOT-GP3:~/.ssh$ ll
total 16
-rw-rw-r-- 1 cpeiot cpeiot   91  9? 1 11:25 config
-rw------- 1 cpeiot cpeiot 1675  9? 2 12:21 id_rsa
-rw-r--r-- 1 cpeiot cpeiot  396  9? 6 16:53 id_rsa.pub
-rw-r--r-- 1 cpeiot cpeiot  274  9? 7 09:52 known_hosts
cpeiot@IOT-GP3:~/.ssh$ cat config
Host admin
        HostName
        User admin
        Port 29418
        IdentityFile ~/.ssh/id_rsa

cpeiot@IOT-GP3:~/.ssh$
```

HostName : gerrit所在主机IP
User : 用户在gerrit上注册的用户名
Port : gerrit 的端口
IdentityFile : 需要和gerrit上public key 进行验证的private key.

Gerrit create project

Gerrit create project

Gerrit clone project

选择【clone with commit-msg hook】

All	My	**Projects**	People	Plugins	Documentation		Search t

List   General   Branches   Access   Dashboards   Create New Project

Project example

| clone | clone with commit-msg hook | | Anonymous HTTP | SSH | HTTP |

`git clone http://`~~████████~~`:8088/example && scp -p -P 29418 admin@`~~████████~~`:hooks/commit-msg example/.git/hooks/` 📋

Description

Warning

`warning: remote HEAD refers to nonexistent ref, unable to checkout.`

Gerrit push project

git push origin HEAD:refs/for/master

```
cpeiot@IOT-GP3:~/workspace/test$ git push origin HEAD:refs/for/master
Counting objects: 3, done.
Writing objects: 100% (3/3), 287 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
remote: Processing changes: new: 1, refs: 1, done
remote:
remote: New Changes:
remote:    http://IOT-GP3:8088/4 main.c commit
remote:
To ssh://admin@135.252.145.126:29418/test
 * [new branch]      HEAD -> refs/for/master
```

```
[remote "mybranch"]
        url = admin:test
        push = HEAD:refs/for/master
```

GOOD

git push mybranch

Gerrit project changes

ssh admin gerrit stream-events

ssh admin gerrit --help

THX