

# 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

™

Search

Administrator ▾

Administrator

admin@example.com

Settings   Switch Account | Sign Out

Settings

Profile

Preferences

Watched Projects

Contact Information

SSH Public Keys

HTTP Password

Identities

Groups

<i>Username</i>	admin
<i>Full Name</i>	Administrator
<i>Email Address</i>	admin@example.com
<i>Registered</i>	Sep 6, 2015 4:21 PM
<i>Account ID</i>	1000000

Add SSH Public Key

▶ How to Generate an SSH Key

Clear

# Gerrit other users

## Sign In

Username:

Become Account

Email Address:

Become Account

Account ID:

Become Account

Choose:

[Administrator](#)

## Register

New Account

### Settings

- Profile
- Preferences
- Watched Projects
- Contact Information
- SSH Public Keys
- HTTP Password
- Identities
- Groups

#### Add SSH Public Key

► How to Generate an SSH Key

Clear

Add

# Gerrit manage

gsq1

重启Gerrit

Mysql

```
cpeiot@IOT-GP3:~/gerrit/review-site/etc$ vi gerrit.config
[
  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
~
```

```
+-----+
| Tables_in_gerrit |
+-----+
| account_diff_preferences |
| account_external_ids |
| account_group_by_id |
| account_group_by_id_audit |
| 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 |
```



# 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 10.1.1.145
    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

AllMyProjectsPeoplePluginsDocumentation

ListCreate New Project

## Create Project

Project Name:

example

Rights Inherit From:

Browse

☐ Create initial empty commit

☐ Only serve as parent for other projects

Create Project

Parent Suggestion	Project Name	Project Description
▶	All-Projects	Access inherited by all other projects.

# Gerrit create project

AllMyProjectsPeoplePluginsDocumentation

ListGeneralBranchesAccessDashboardsCreate New Project

Project example

cloneclone with commit-msg hookAnonymous HTTPSSHHTTP

git clone http://135.252.145.126:8088/example

Description

Project Options

State:

Active

Submit Type:

Merge if Necessary

Automatically resolve conflicts:

INHERIT (true)

Create a new change for every commit not in the target branch:

INHERIT (false)

Require Change-Id in commit message:

INHERIT (true)

Maximum Git object size limit:

Contributor Agreements

Require Signed-off-by in commit message:

INHERIT (false)

Save Changes

# Gerrit clone project

选择【clone with commit-msg hook】

[All](#) [My](#) [Projects](#) [People](#) [Plugins](#) [Documentation](#)


[List](#) [General](#) [Branches](#) [Access](#) [Dashboards](#) [Create New Project](#)

## Project example

clone	clone with commit-msg hook	Anonymous HTTP	SSH	HTTP
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```
git clone http://[redacted]:8088/example && scp -p -P 29418 admin@[redacted]: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
```

GOOD

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

git push mybranch

# Gerrit project changes

All

My

Projects

People

Plugins

Documentation

Changes

Drafts

Draft Comments

Watched Changes

Starred Changes

Groups

Search term

Search

Administrator

My Reviews

Subject	Status	Owner	Project	Branch	Updated	Size	CR	V
Outgoing reviews								
☆ delete readme file		Administrator	testC	master	Sep 2			
☆ main.c commit		Administrator	test	master	10:02 AM			
▶ ☆ add readme file		Administrator	test	master	10:20 AM			



`ssh admin gerrit stream-events`



`ssh admin gerrit --help`

THX