

Gerrit Setup SOP

Environment:

Distributor ID: Ubuntu

Description: Ubuntu 16.04.3 LTS

Release: 16.04

Codename: xenial

1. 安裝 Apache HTTP Server

```
$ sudo apt-get install -y apache2
```

(Apache 設定請參閱設定檔)

2. ===== [補充] 若 Apache2 沒有 proxy mod , 為 Apache2 安裝 Proxy 模組 =====

```
$ sudo a2enmod proxy_html proxy proxy_http cgi
```

```
$ sudo a2enmod authnz_ldap (一定要開始 ldap 設定)
```

3. Check if following Apache modules was enabled

```
$ ls -al /etc/apache2/mods-enabled ( To checked enabled modules )
```

```
access_compat alias auth_basic auth_digest authn_core authn_file authnz_ldap authz_core  
authz_host authz_user autoindex cache cache_disk cgi deflate dir env filter ldap mime  
mpm_prefork negotiation php7.0 proxy proxy_ajp proxy_http setenvif ssl status
```

4. Install git-core

```
$ sudo apt-get install git-core (version 2.7.4 above)
```

Checked git version

```
$ git --version
```

```
git version 2.7.4
```

5. Installing the JDK

OpenJDK8 (version 1.8.0_91 above)

```
$ sudo apt-get update
```

```
$ sudo apt-get install openjdk-8-jdk
```

```
$ java -version
```

```
openjdk version "1.8.0_131"
```

```
OpenJDK Runtime Environment (build 1.8.0_131-8u131-b11-0ubuntu1.16.04.2-b11)
```

```
OpenJDK 64-Bit Server VM (build 25.131-b11, mixed mode)
```

6. 準備安裝 Gerrit Server , 目錄名稱 **gerrit_review_site**

`java -jar Downloads/gerrit-2.14.3.war init -d gerrit_review_site`

git repositotie 設定為 `/home/administrator/repositories_review_site`

SMTP server hostname = **Set your SMTP server host**

```
administrator@TPROBOTMUSICVU01:~$ java -jar Downloads/gerrit-2.14.3.war init -d gerrit_review_site
Using secure store: com.google.gerrit.server.securestore.DefaultSecureStore
[2017-10-06 15:38:25,266] [main] INFO com.google.gerrit.server.config.GerritServerConfigProvider : No /home/administrator/gerrit_review_site/etc/gerrit.config; assuming default
s

*** Gerrit Code Review 2.14.3
***
Create '/home/administrator/gerrit_review_site' [Y/n]? y

*** Git Repositories
***
Location of Git repositories [git]: /home/administrator/repositories_review_site

*** SQL Database
***
Database server type [h2]:

*** Index
***
Type [LUCENE/?]:

*** User Authentication
***
Authentication method [OPENID/?]: DEVELOPMENT_BECOME_ANY_ACCOUNT
Enable signed push support [y/N]? N

*** Review Labels
***
Install Verified label [y/N]? y

*** Email Delivery
***
SMTP server hostname [localhost]: 
SMTP server port [(default)]: 
SMTP encryption [NONE/?]: 
SMTP username [administrator]: 
administrator's password : 
confirm password : 
error: Passwords did not match; try again
administrator's password : 
confirm password : 

*** Container Process
***
Run as [administrator]: 
Java runtime [/usr/lib/jvm/java-8-openjdk-amd64/jre]:
```

```
administrator@TPROBOTMUSICVU01: ~  
Copy gerrit-2.14.3.war to gerrit_review_site/bin/gerrit.war [Y/n]? y  
Copying gerrit-2.14.3.war to gerrit_review_site/bin/gerrit.war  
  
*** SSH Daemon  
***  
Listen on address      [*]:  
Listen on port        [29418]:  
Generating SSH host key ... rsa... dsa... ed25519... ecdsa 256... ecdsa 384... ecdsa 521... done  
  
*** HTTP Daemon  
***  
Behind reverse proxy    [y/N]? y  
Proxy uses SSL (https://) [y/N]? N  
Subdirectory on proxy server [/]:  
Listen on address      [*]:  
Listen on port        [8081]:  
Canonical URL          [http://[redacted]]: http://[redacted]/  
  
*** Cache  
***  
  
*** Plugins  
***  
Installing plugins.  
Install plugin commit-message-length-validator version v2.14.3 [y/N]? y  
Installed commit-message-length-validator v2.14.3  
Install plugin download-commands version v2.14.3 [y/N]? y  
Installed download-commands v2.14.3  
Install plugin hooks version v2.14.3 [y/N]? y  
Installed hooks v2.14.3  
Install plugin replication version v2.14.3 [y/N]? y  
Installed replication v2.14.3  
Install plugin reviewnotes version v2.14.3 [y/N]? y  
Installed reviewnotes v2.14.3  
Install plugin singleusergroup version v2.14.3 [y/N]? y  
Installed singleusergroup v2.14.3  
Initializing plugins.  
  
*** Gerrit Administrator  
***  
Create administrator user [Y/n]? y  
username                  [admin]:  
name                     [Administrator]:  
HTTP password            [secret]: [redacted]  
public SSH key file       [/home/administrator/.ssh/id_rsa.pub]:  
email                    [admin@example.com]:  
Initialized /home/administrator/gerrit_review_site  
Executing /home/administrator/gerrit_review_site/bin/gerrit.sh start
```

```
administrator@TPROBOTMUSICVU01: ~/repositories_review_site  
  
Listen on address      [*]:  
Listen on port        [29418]:  
Generating SSH host key ... rsa... dsa... ed25519... ecdsa 256... ecdsa 384... ecdsa 521... done  
  
*** HTTP Daemon  
***  
Behind reverse proxy    [y/N]? y  
Proxy uses SSL (https://) [y/N]? N  
Subdirectory on proxy server [/]:  
Listen on address      [*]:  
Listen on port        [8081]:  
Canonical URL          [http://[redacted]]: http://[redacted]/  
  
*** Cache  
***  
  
*** Plugins  
***  
Installing plugins.  
Install plugin commit-message-length-validator version v2.14.3 [y/N]? y  
Installed commit-message-length-validator v2.14.3  
Install plugin download-commands version v2.14.3 [y/N]? y  
Installed download-commands v2.14.3  
Install plugin hooks version v2.14.3 [y/N]? y  
Installed hooks v2.14.3  
Install plugin replication version v2.14.3 [y/N]? y  
Installed replication v2.14.3  
Install plugin reviewnotes version v2.14.3 [y/N]? y  
Installed reviewnotes v2.14.3  
Install plugin singleusergroup version v2.14.3 [y/N]? y  
Installed singleusergroup v2.14.3  
Initializing plugins.  
  
*** Gerrit Administrator  
***  
Create administrator user [Y/n]? y  
username                  [admin]:  
name                     [Administrator]:  
HTTP password            [secret]: [redacted]  
public SSH key file       [/home/administrator/.ssh/id_rsa.pub]:  
email                    [admin@example.com]:  
Initialized /home/administrator/gerrit_review_site  
Executing /home/administrator/gerrit_review_site/bin/gerrit.sh start  
Starting Gerrit Code Review: OK  
Waiting for server on [redacted] ... OK
```

7. 確認 gerrit 跑起來後

登入:

http://Your_IP

切為 admin

然後加入 ssh pub key

接著必須將 admin 加為可以存取 database;

8. 建好 gerrit server 後會發現 admin 不能使用 h2 database

admin account login:

1. 先改 gerrit_review_site/etc/gerrit.config

將 auth type 先改為 **DEVELOPMENT_BECOME_ANY_ACCOUNT**

\$sudo gerrit_review_site/bin/gerrit.sh restart

2. 首先到 http://Your_IP/ 用 admin 登入

3. 在 terminal 加入 admin 的 ssh pub key 到 gerrit web

```
$ssh-keygen -t rsa
```

```
$cat ~/.ssh/id_rsa.pub
```

```
vim ~/.ssh/config
```

加入

Host Your_IP

Port 29418

User admin

存檔。

4. 設定 git email, name

```
$git config --global user.email admin@example.com
```

```
$git config --global user.name admin
```

5.修改 All-Projects.git 檔案

```
$ cd ~  
$ git clone /home/administrator/repositories_review_site/All-Projects.git  
$ cd All-Projects/  
$ git config -f project.config --add capability.accessDatabase 'group Administrators'  
$ git add project.config  
$ git commit (add some commit message)  
$git push origin HEAD:refs/meta/config
```

改完後再將`/gerrit_review_site/etc/gerrit.config` 改回 `auth type = HTTP`