Gerrit Setup SOP

Environment:

Distributor ID: Ubuntu
Description: Ubuntu 16.04.3 LTS
Release: 16.04
Codename: xenial

1. 安裝 Apacpe 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**

```
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://███████████/]: http://███████████/

*** 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]: ████████
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
```

```
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://███████████/]: http://███████████/

*** 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]: ████████
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 ███████████ ... 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