mount nfs: //mount 就是顯示你要動作的資料夾的指令

//在進行之前要先創一個 maps_nfs 的資料夾 把資料丟進去
mkdir maps_nfs

//加入 host 表 目的是為了讓下面的執行句可以認得 domain name
1.連到 172.19.88.111(存放 domain name 的 host 端)
2. 輸入 vim /etc/hosts 進入 host 表 將所有 ip 複製
3. 到本地端 輸入 sudo vim /etc/hosts 之後輸入密碼 就可以進去 將下列 IP 貼進去並儲存離開
//除了 maps_nfs 的 ip 不用更動外 其餘的都要改成測試環境的 IP
10.63.3.150 maps_services
10.63.3.150 maps_jobmanager
10.63.3.150 maps_frontend
10.63.3.150 maps_backend
10.63.3.150 maps_database
10.63.2.177 maps_nfs
10.63.3.150 maps_portal
10.63.3.150 micro_services
10.63.3.150 micro_services_db
10.63.3.150 maps_internal_portal
10.63.3.150 maps_update_server
10.63.3.150 maps_internal_update_server
10.63.3.150 maps.x1apps.com

//接著加入每次開機都要做的事情(這邊要注意的是修改重要指令都要加 sudo 才可以修改內容離開時 記得在後面打! Ex: wq!)
sudo vim /etc/rc.local

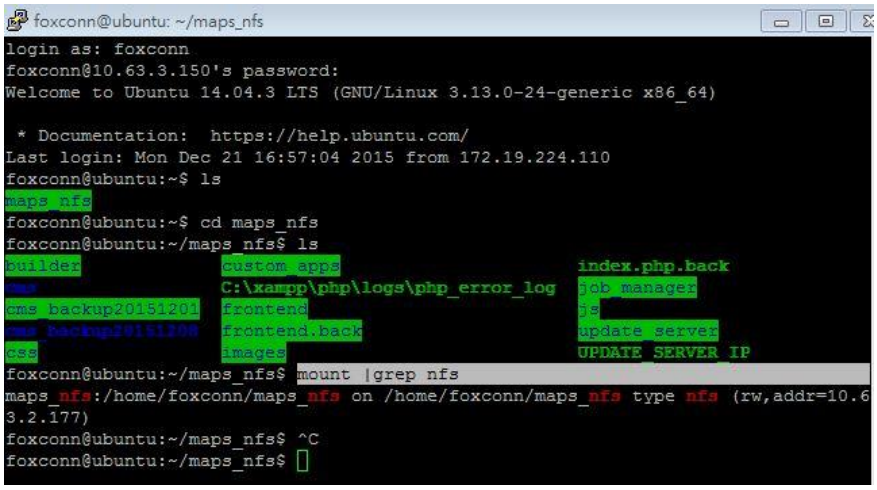
//把下面這句加進去裡面//這裡的 formal_maps_nfs 是正式環境裡的資料夾 所以在測試環境裡的話請把 formal_maps_nfs 改為 maps_nfs
sudo mount -t nfs maps_nfs:/home/foxconn/formal_maps_nfs /home/foxconn/maps_nfs

//確認 mount 是否有成功 可以先 reboot 在進入 mount 的資料夾看裡面的檔案是否有 mount 到
sudo reboot

(測試環境不要用 mount 怕會修改到共同資料 所以改用 scp(copy 的方式) 查詢指令是 ls 查詢隱藏檔是 ls -al)

scp -r /home/foxconn/.maps.config foxconn@10.63.3.150:/home/foxconn/
scp -r /home/foxconn/maps_nfs foxconn@10.63.3.150:/home/foxconn

ls→cd 資料夾名稱→看資料有沒有在 然後再打 mount |grep nfs 確認 mount 路徑



Update server: (灰色部分暫時不作)

sudo vi /etc/apache2/apache2.conf

```
<Directory /var/www/update>
    Options Indexes FollowSymLinks Includes ExecCGI
    AllowOverride All
    Require all granted
    Allow from all
</Directory>
```

sudo a2enmod rewrite && sudo service apache2 restart

//接著可以進行測試用手機連 web 輸入 http://你的 ip /iOS/apps/ 或是 輸入 http://你的 ip
如果有看到畫面的話就是成功了

DB

//前置作業先到一個好的環境把 DB 資料抓出來 可以到 10.63.3.152 抓

// DB schema export **(好的環境裡 ex:10.63.3.152 大於是寫入的意思)**

mysqldump -u root -p "Notification Pusher" > schema.sql

//將資料傳到自己的環境(很常用)

scp -r schema.sql foxconn@10.63.3.150:/home/foxconn/

(sc 用法 scp –r 來源+目的:傳送的位置)

Ex: scp –r /home/foxconn/maps/schema.sql
foxconn@10.63.3.150:/home/foxconn/schema.sql

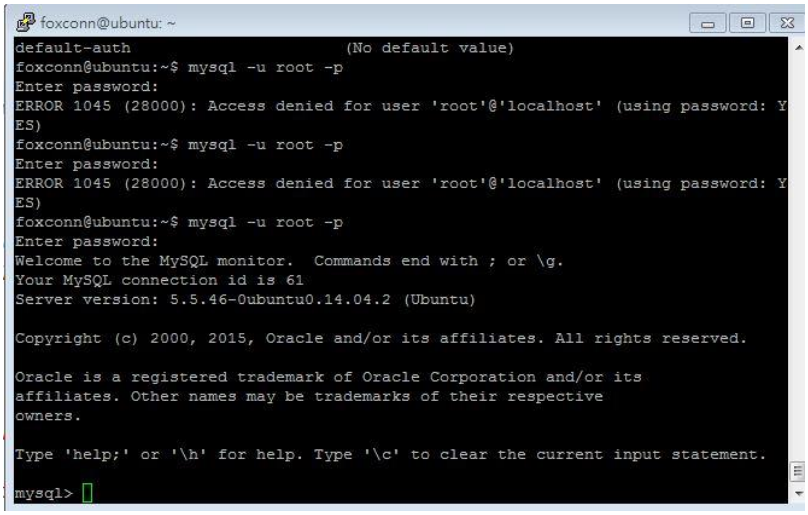
/home/foxconn/maps/schema.sql→來源

foxconn@10.63.3.150→目的

:/home/foxconn/schema.sql→傳送的位置(冒號一定要加)

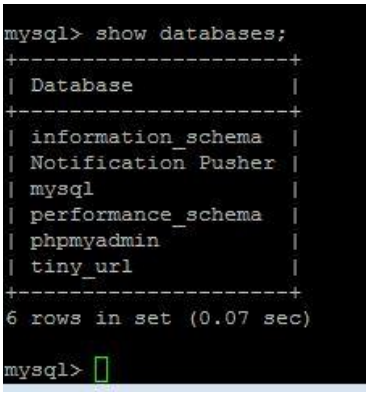
//接著要建置 DB 的 table

1. mysql –u root –p //會進入以下畫面

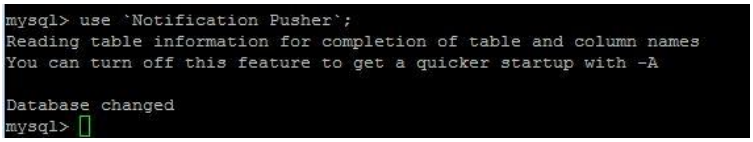


2.輸入 CREATE DATABASE `Notification Pusher` CHARACTER SET utf8 COLLATE utf8_unicode_ci;

//確認 DB 的指令 show databases;



//進入 DB 的指令 use `DB name`; ex:use `Notification Pusher`;



//確認 table 的指令 show tables;

// DB schema import 把抓下來的資料匯入(自己的環境 小於就是匯入的意思)
mysql -u root -p "Notification Pusher" < schema.sql

#建立 DB
//以下都是 Mysql 指令 所以記得進入 DB mysql –u root –p

mysql> create database tiny_url;

#測試用 開啟對外連線(要做或不做都可以)----------
//開放全線
db$ GRANT ALL ON *.* TO 'root'@'%' IDENTIFIED BY 'Foxconn' WITH GRANT OPTION;

//套用 按鈕
db$ FLUSH PRIVILEGES;

#測試用 開啟對外連線(要做或不做都可以)
vi /etc/mysql/my.cnf

找到下列兩行，拿掉或加上註解後儲存離開(要做或不做都可以)----------
skip-external-locking
bind-address = 127.0.0.1

# UTF-8
sudo vi /etc/mysql/my.cnf
[mysqld](從下面開始 加進去)

init_connect='SET collation_connection = utf8_unicode_ci'
init_connect='SET NAMES utf8'
character-set-server=utf8
collation-server=utf8_unicode_ci

# 重新啟動服務
sudo /etc/init.d/mysql stop
sudo /etc/init.d/mysql start

stored procedures(儲存 程序):
mysql -u root –p

//進入使用的 DB 裡 這裡是 Notification Pusher
use `Notification Pusher`;
(建議)

delimiter //
CREATE PROCEDURE select_usable_provision_id (in app_name varchar (20))
BEGIN
DECLARE app_id varchar(50);

```
START TRANSACTION;

select provision_app_id into  app_id from Provision_Table where status = 'standby' LIMIT 1;

update Provision_Table set status = 'using' , bundle_app_name = app_name where provision_app_id =  app_id;

select app_id;

COMMIT;
END;//
delimiter ;

delimiter //
CREATE PROCEDURE select_usable_builder_ip (in os varchar (50))
BEGIN
DECLARE ip varchar(50);

START TRANSACTION;

select Builder_IP into ip from Builder_Table where Builder_Status = 'Ready' and Builder_OS = os LIMIT 1;

update Builder_Table set Builder_Status = 'processing' where Builder_IP =  ip;

select ip;

COMMIT;
END;//
delimiter ;
```

測試連線(看 provision 有沒有加入)

Maps Services

sudo vi /etc/apache2/ports.conf (編輯完要 restart 指令 `sudo /etc/init.d/apache2 restart`)

//將下面這行加入
Listen 81

sudo apt-get install libapache2-mod-jk

sudo vim /etc/libapache2-mod-jk/workers.properties
//將下列指令加入或修改

```
worker.list=worker1,loadbalancer
worker.worker1.port=8009
worker.worker1.host=maps_internal_portal
worker.worker1.type=ajp13
worker.worker1.lbfactor=1
worker.loadbalancer.type=lb
```

worker.loadbalancer.balance_workers=worker1

sudo vim /etc/libapache2-mod-jk/httpd-jk.conf
//將下列指令加入
<VirtualHost *:81>
JkMount /axis2/services/UrlManager worker1
JkMount /axis2/services/UrlManager/* worker1
JkMount /axis2/services/MAPsService worker1
JkMount /axis2/services/MAPsService/* worker1
</VirtualHost>

!//如果是正式環境下請把下面指令也加入(測試環境不用)
<VirtualHost *:445>
SSLEngine on
SSLCipherSuite
ALL:!ADH:!EXP56:RC4+RSA:+HIGH:+MEDIUM:+LOW:+SSLv2:+EXP:+eNULL
SSLCertificateFile "/etc/letsencrypt/live/maps.x1apps.com/cert.pem"
SSLCertificateKeyFile "/etc/letsencrypt/live/maps.x1apps.com/privkey.pem"
JkMount /axis2/services/UrlManager worker1
JkMount /axis2/services/UrlManager/* worker1
JkMount /axis2/services/MAPsService worker1
JkMount /axis2/services/MAPsService/* worker1
</VirtualHost>

//將檔案移動
sudo ln -s /var/lib/tomcat7 /home/foxconn/tomcat

sudo vim ~/tomcat/conf/server.xml (編輯完要 restart 指令: sudo /etc/init.d/tomcat7 restart)
//將下列程式加入或修改
<Listener className="org.apache.catalina.core.AprLifecycleListener"
SSLEngine="on" />

<Connector port="8080" maxHttpHeaderSize="8192"
maxThreads="150" minSpareThreads="25" maxSpareThreads="75"
enableLookups="false" redirectPort="8443" acceptCount="100"
connectionTimeout="20000" disableUploadTimeout="true"
compression="on"
compressionMinSize="128"
noCompressionUserAgents="gozilla, traviata"
compressableMimeType="text/html,text/xml,text/plain,text/css,text/ javascript,application/x-javascript,application/javascript"
URIEncoding="UTF-8"
/>

<Connector port="8009" protocol="AJP/1.3" redirectPort="8443" />

<Engine name="Catalina" defaultHost="localhost" jvmRoute="worker1">

<Cluster className="org.apache.catalina.ha.tcp.SimpleTcpCluster"/>

//從 10.63.3.160 那 copy tomcat 到測試環境(這裡是 10.63.3.150)
scp -r /home/foxconn/tomcat foxconn@10.63.3.150:/home/foxconn/apache-tomcat-maps

//開始將 webservice 複製到 tomcat 下
sudo cp -r ~/apache-tomcat-maps/webapps/axis2.war
~/tomcat/webapps/

sudo cp -r ~/apache-tomcat-maps/webapps/host-manager/
~/tomcat/webapps/

sudo cp -r ~/apache-tomcat-maps/webapps/manager/
~/tomcat/webapps/

sudo cp -r ~/apache-tomcat-maps/webapps/axis2/WEB-INF/lib
~/tomcat/webapps/axis2/WEB-INF/lib

sudo cp -r ~/apache-tomcat-maps/webapps/axis2/WEB-INF/services
~/tomcat/webapps/axis2/WEB-INF/

測試:
//http://172.20.10.10:81/axis2/services/listServices
http://10.63.3.150:81/axis2/services/MAPsService?wsdl