



?/A-Lang (alang[dot]hsu[at]gmail[dot]com)*????????*

?????[Installing DB2 on Linux]???????????????????? Study ?????????????????????????????????
????????

??????SuSE Enterprise Server 9(kernel 2.6.5-7.97-default) + DB2 V7.2

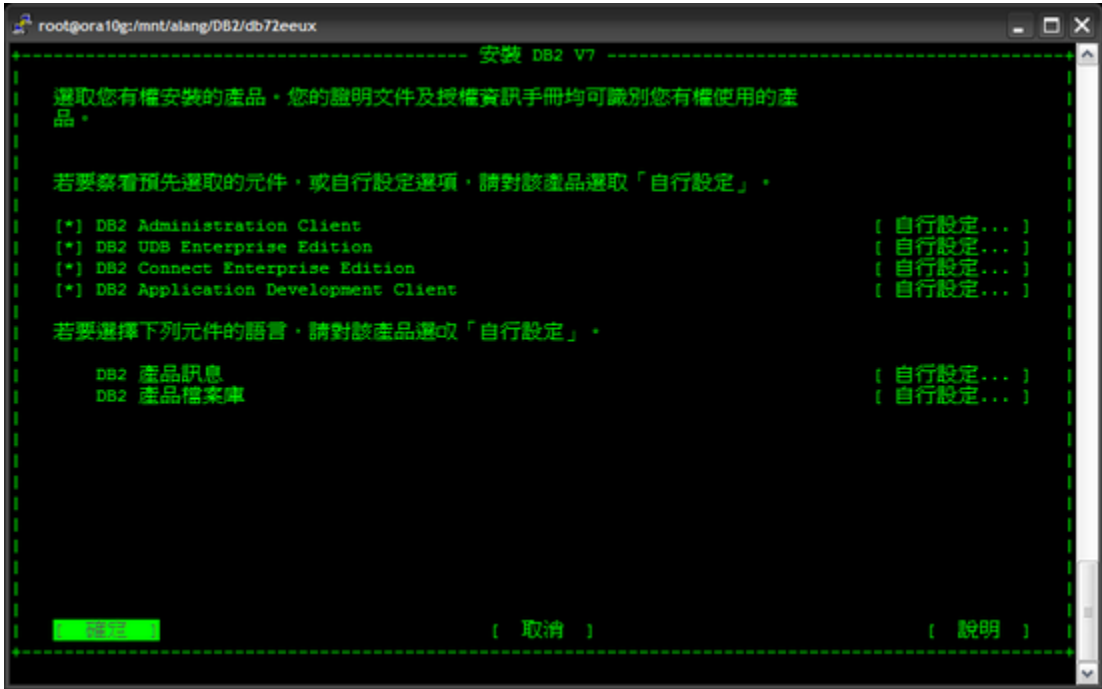
??????DB2 for Linux ?????????? db72eeux ??????????

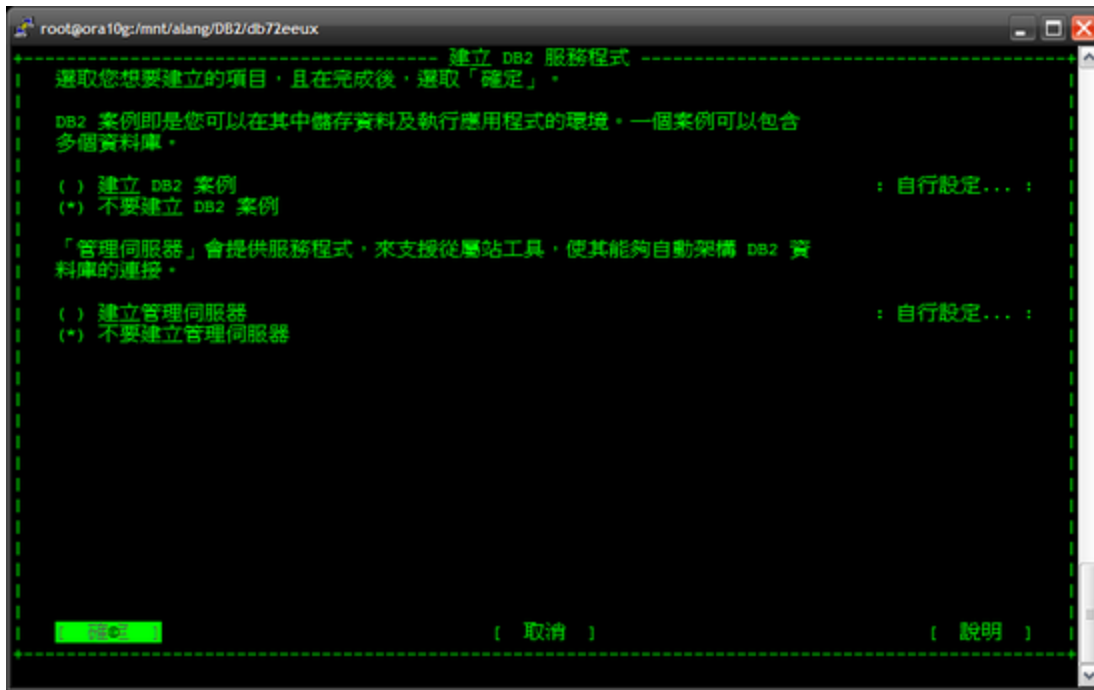
????? Root ??????????????????????

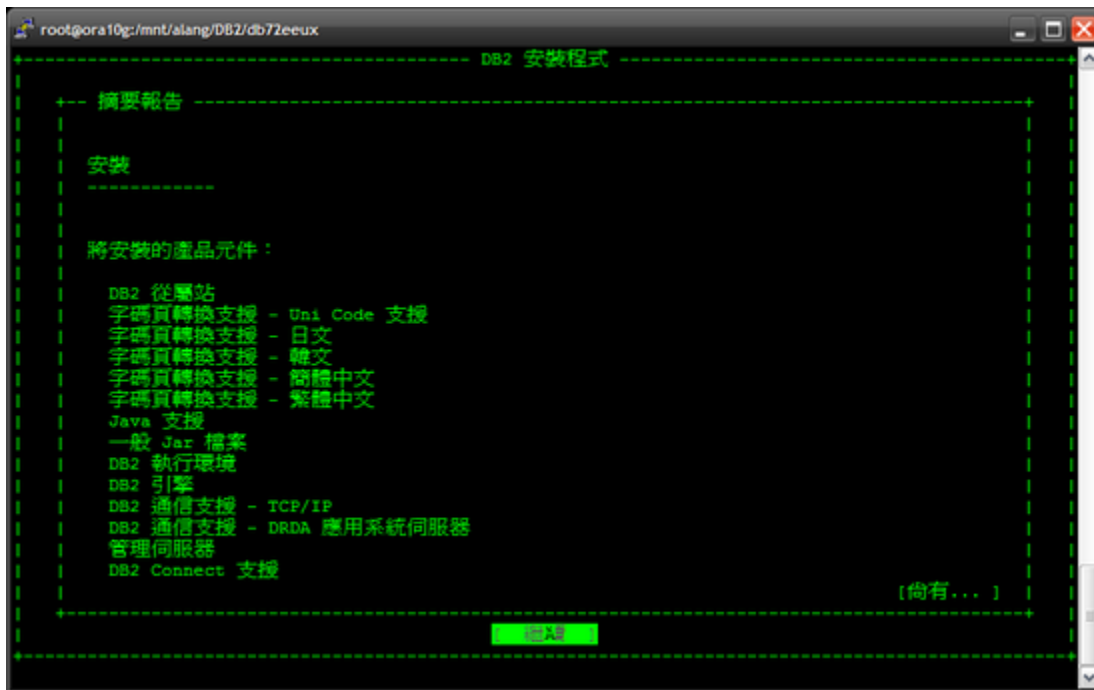
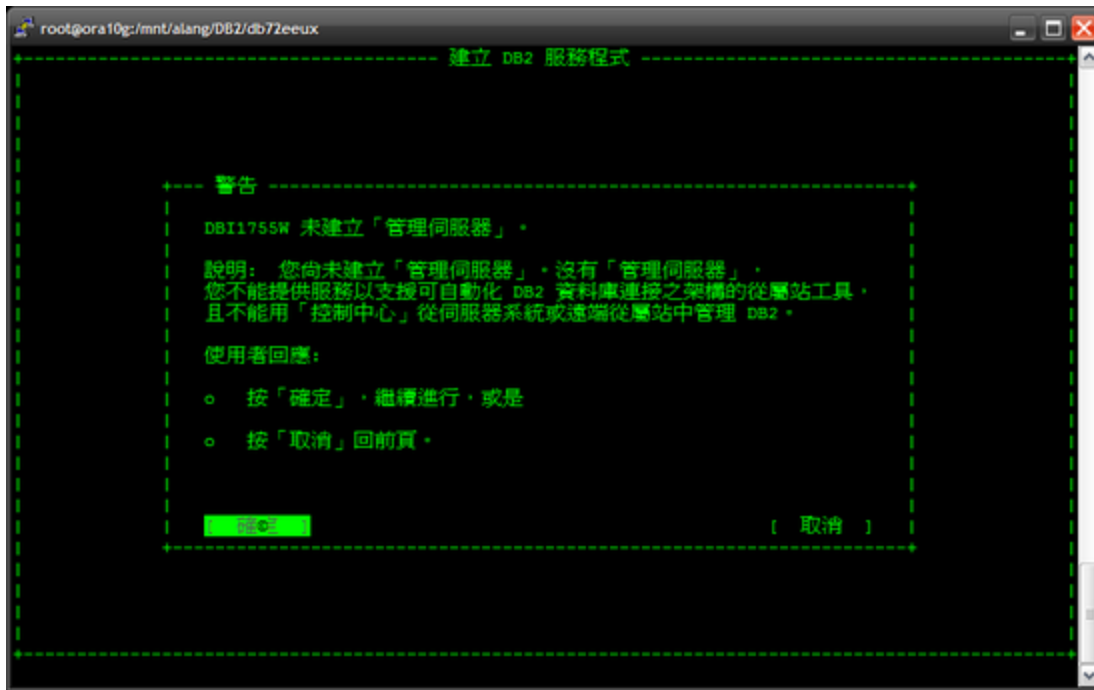
1. ?????????????????

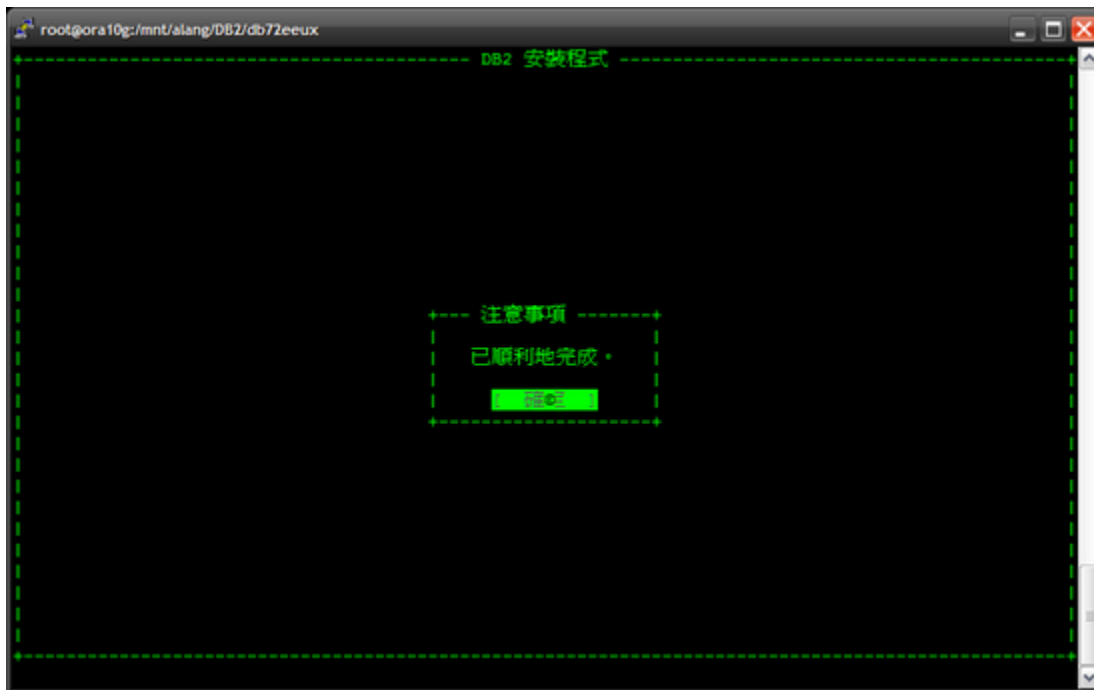
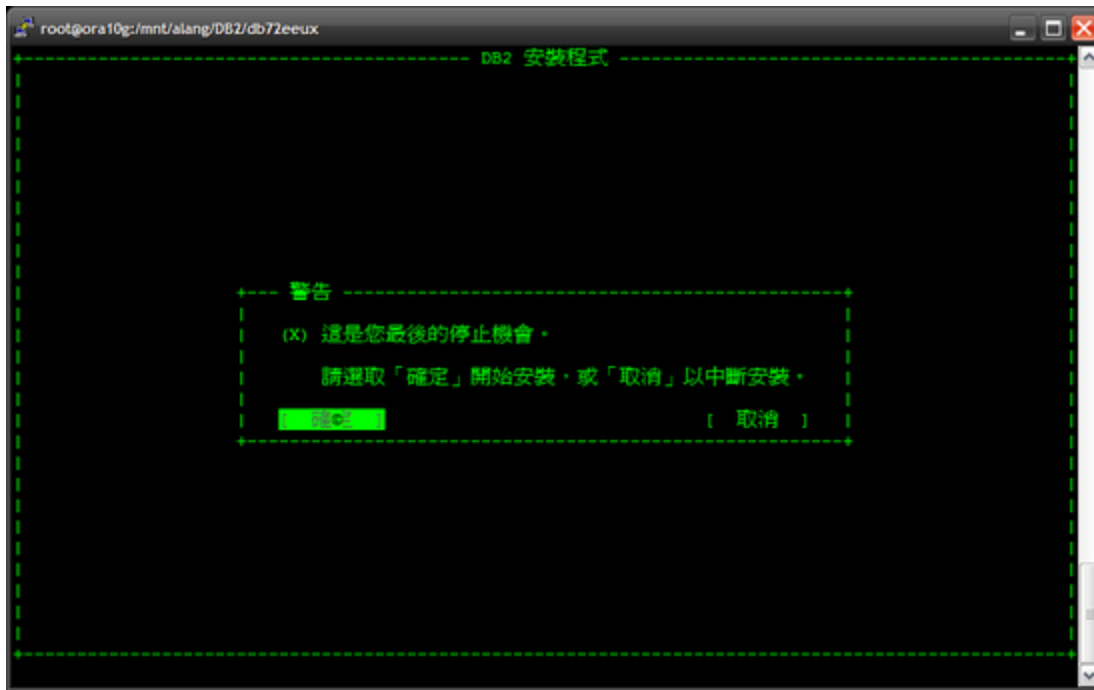
```
#cd db72eeux  
#chmod u+x db2setup
```

??? DB2 Connect Enterprise Edition ??????????????; ?????? License ??????????????????









2. ???????????
#chmod +x db2_install
#./db2_install

??????

??/? /etc/sysctl.conf

```
kernel.sem=250 25600 32 1024
kernel.shmmax=268435456
kernel.shmall=117965
kernel.msgmni=1024
kernel.msgmax=65535
kernel.msgmnb=65535
```

???

shmmax -> for x86, here is 268435456 byte(256MB); for 64bit, here is 1073741824 byte(1GB)
shmall -> physical memory(KB) * 90% / 4, 512M * 1024 * 90% /4= 117964.8, ??????? Table ??? buffer pool???

?????

```
#sysctl -p
```

??????

```
#ipcs -l
```

```
// ?????????? kb ?
```

?????????

```
#chkconfig boot.sysctl on
```

```
?????? instance ?????? 'db2adm'
```

```
#groupadd db2adm
```

```
#useradd -g db2adm db2inst
```

?????? DB Instance

```
#vi /etc/services //?? service port ??
```

For DB2 Instance

```
db2inst      50020/tcp
```

```
db2insti    50021/tcp
```

```
#cd /usr/IBMDB2/V7.1/instance
```

```
#!/db2icrt -a server -u db2inst db2inst // -a <AuthType> -u <user_name> <instance_name>
```

```
#su - db2inst
```

```
$db2ilist //list instance name
```

\$db2 "update dbm cfg using svcname sminst" //update service name as the above as well as this name must existed within file /etc/services .

Check the service port:

```
#netstat -lt
```

```
#!/db2idrop <instance_name> //?????????.
```

Tips:

```
? Server ? Client ?????????????????? Server????????????? Grant ? Server ?????????????????? Client
????????????? Server ?? DBM CFG ?? AUTHENTICATION = CLIENT?
```

?????????? License

```
# cd /usr/IBMDB2/V7.1/adm
# db2licm -l
Product Name = "DB2 Enterprise Edition"
Product Password = "DB2UDBEE"
Version Information = "7.2"
Expiry Date = "Expired"
Concurrent Connect User Policy = "Disabled"
Registered Connect User Policy = "Disabled"
Enforcement Policy = "Soft Stop"
Number of processors = "1"
Number of licensed processors = "1"
Annotation = ""
Other information = ""
```

```
? Expiry Date = expired, ?????? instance
```

```
?? license key 'db2udbee.lic'
# cd /usr/IBMDB2/V7.1/adm
# db2licm -a db2udbee.lic
```

?????? Instance

```
#su - db2inst
#db2start //????????????????????
```

```
SQL1063N DB2START processing was successful.
```

?????????? 'mydb'

```
#su - db2inst
$mkdir mydb
$db2start
$db2 "create database mydb on /home/db2inst/mydb using codeset IBM-850 territory En_US collate using
identity"
```

```
$db2 list db directory //??????????
```

```
$db2 connect to mydb //??????
```

```
????? RAW device ??????? AIX ?????????? Linux ?? raw revic
```

```
? fdisk ???? partition????? LVM ?????????????? LV
```

```
#lvcreate -L 500M -n rmydb001 vg01 // LV name = rmydb001, VG name = vg01
#raw /dev/raw/raw1 /dev/vg01/rmydb001
#raw -a
#chown db2inst:db2adm /dev/raw/raw1
```

```
?? raw device ???
#raw /dev/raw/raw1 0 0
```

8.1 ??? AIX ?????? tablespace ????????? Linux ?????????? raw device

8.2 ????????????????? backup/restore ???; ??? export/import ?????? Table ?????? Table ??? ??????

??? Google ?????????????????

8.2.1 ?? AIX ?????????????? Tablespace, Table ??????????

```
$ db2look -d mydb -a -e -l -x -f -o mydb_db2look.ddl
```

8.2.2 ?? mydb_db2look.ddl ????? Linux ????????????????? DB Name, Tablespace ???

Tips:

? Tablespace ?? SMS (System Managed Mode), ??????????????

? AP ??? DB ? bind? ? schema name ??? AP ???

8.2.3 ? Linux ??????????

```
$ db2 -tvf mydb_db2look.ddl | tee mydb_db2look.log
```

8.2.4 ?? AIX ????????????????? Table ?????????????????????

```
$mkdir mydb_ixf
$cd mydb_ixf
$db2move mydb export
```

8.2.5 ????????????????????? Linux ?, ??????, ??????????

```
$cd mydb_ixf
$db2move mydb import
```

Tips:

????????? schema ?????????? db2move.lst ?

???? ?? FixPak V11

????????[[Install FixPack for DB2 V7.2 on Linux](#)]

Tips:

?? 8.2.2 ? Tablespace ?? SMS (System Managed Mode), ??????????????
 ? Server ? Client ?????????????????? Server????????????? Grant ? Server ??????????????????
 ??? Client ?????????????? Server ?? DBM CFG ?? AUTHENTICATION = CLIENT

Error: SQL0863W A successful connection was made, but only single byte characters should be used. SQLSTATE=01539

Ans: db2set DB2CODEPAGE=850????????????????

ERR: SQL30081N A communication error has been detected. Communication protocol being used: "TCP/IP". Communication API being used: "SOCKETS". Location where the error was detected: "". Communication function detecting the error: "connect". Protocol specific error code(s): "79", "*", "*". SQLSTATE=08001

Ans: Check DB2 network service with command 'netstat', if the service port doesn't open, check the instance configuration.

Reference Links:

- [Install DB2 on a local Linux \(Intel\) machine](#)
- [????????? \(RedHat & SuSE\)](#)
- [?SUSE Linux Server???DB2](#)
- [DB2 Version 7.1 for Linux HOWTO](#)