

# ORACLE 9i install for Redhat AS 3.0

By Vincent Yu 2005/04/22

## 1 · 安裝需求

### Hardware Requirements

Memory	A minimum of 512 MB of RAM is required to install Oracle9i Server. A minimum of 512 MB of RAM is required to install Oracle9i Management and Infrastructure. A minimum of 256 MB is required to install Oracle9i Client.
Swap space	Disk space equal to the system's physical memory, or 1GB, whichever is greater.
CD-ROM device	A CD-ROM drive capable of reading ISO 9660 format CD-ROM discs with RockRidge extensions.

### Component Required Disk Space

Database software	3.5 GB
Seed database	1 GB

## 2 · 系統規劃

2.1 磁區劃分	/oracle	#oracle 軟體，硬碟空間須 3.5G左右
	/db1	#oracle data 硬碟空間依需求規劃
	/db2	#oracle data 硬碟空間依需求規劃
	/db3	#oracle data 硬碟空間依需求規劃
	/tmp	#暫存空間 400M 以上

### 2.2 使用者、群組建立

```
#groupadd dba
#groupadd oinstall
#useradd -c /oracle -g oinstall -G dba oracle -p oracle
```

### 2.3 磁區擁有者變更

```
mkdir /oracle/product
chown -R oracle.oinstall /oracle
chown oracle.dba /db1
chown oracle.dba /db2
chown oracle.dba /db3
chmod 755 /oracle
chmod 755 /db1
chmod 755 /db2
chmod 755 /db3
```

## 2.4 設定系統環境

vi /home/oracle/.bash\_profile

加入以下設定

```
export LD_ASSUME_KERNEL=2.4.1
export ORACLE_BASE=/oracle
export ORACLE_HOME=/oracle/product/9.2.0
export ORACLE_SID=oratest
export ORACLE_TERM=xterm
export TNS_ADMIN= Set if sqlnet.ora, tnsnames.ora, etc. are not in
$ORACLE_HOME/network/admin
export NLS_LANG=AMERICAN;
export ORACLE_NLS33=$ORACLE_HOME/ocommon/nls/admin/data
LD_LIBRARY_PATH=$ORACLE_HOME/lib:/lib:/usr/lib
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/usr/local/lib
export LD_LIBRARY_PATH
export PATH=$PATH:$ORACLE_HOME/bin
CLASSPATH=$ORACLE_HOME/JRE:$ORACLE_HOME/jlib:$ORACLE_HOME/rdbms/jlib
CLASSPATH=$CLASSPATH:$ORACLE_HOME/network/jlib
export CLASSPATH
export DISPLAY=oratest.vmy.idv.tw:0.0
```

## 2.5 設定核心變數

vi /etc/sysctl.conf

加入以下設定(Pre-Installation Requirements 2-19~2-22)

```
kernel.sem=100
kernel.semms=256
kernel.semopm=100
kernel.semmsl=100
kernel.shmm=1
kernel.shmseg=4096
kernel.shmvmx=32767
kernel.shmmax=2147483648
kernel.sem=250 32000 100 128
fs.file-max=65536
```

## 2.6 檢查編譯程式

```
rpm -q gcc cpp compat-libstdc++ glibc-devel kernel-headers binutils
```

用該指令檢查，應有如下結果

- 1.compat-db-4.0.14-5.i386.rpm
- 2.compat-gcc-7.3-2.96.122.i386.rpm
- 3.compat-gcc-c++-7.3-2.96.122.i386.rpm
- 4.compat-libstdc++-7.3-2.96.122.i386.rpm
- 5.compat-libstdc++-devel-7.3-2.96.122.i386.rpm
- 6.openmotif21-2.1.30-8.i386.rpm
- 7.setarch-1.3-1.i386.rpm
- 8.tcl-8.3.5-92.i386.rpm

如果該程式不存在，請從安裝光碟 2、3 執行安裝  
項次 1、2、3、4、5、6、7 在光碟 3  
項次 8 在光碟 2

## 3 • 軟體取得及處理

<http://www.oracle.com> 從以上網址下載如下 3 個檔案

**Oracle9i Database Release 2 (9.2.0.4.0) for Linux x86**

[ship\\_9204\\_linux\\_disk1.cpio.gz](#)

[ship\\_9204\\_linux\\_disk2.cpio.gz](#)

[ship\\_9204\\_linux\\_disk3.cpio.gz](#)

放於/tmp 下並用以下指令解開

```
zcat ship\_9204\_linux\_disk1.cpio.gz | cpio -idmv
```

```
zcat ship\_9204\_linux\_disk2.cpio.gz | cpio -idmv
```

```
zcat ship\_9204\_linux\_disk3.cpio.gz | cpio -idmv
```

產生 Disk1、Disk2、Disk3 3 個檔案後，下指令重新開機

```
sync;sync;reboot
```

## 4 • 開始安裝

用我們剛剛建立的 oracle user 登入，並記得把語系改成英文，以免發生亂碼。

```
cd /tmp/Disk1/
```

```
./runInstaller #執行該程式
```

如有發現以下錯誤訊息

Error occurred during initialization of VM Unable to load native library:

/tmp/OraInstall2003-10-25\_03-14-57PM/jre/lib/i386/libjava.so:

symbol \_\_libc\_wait, version GLIBC\_2.0 not defined in file libc.so.6 with link time reference

這時我們就必須從<http://metalink.oracle.com> 下載p3006854\_9204\_LINUX.zip 這個Patch

進程式修補。

用以下列指令進行修補

```
unzip p3006854_9204_LINUX.zip
```

```
cd 3006854
```

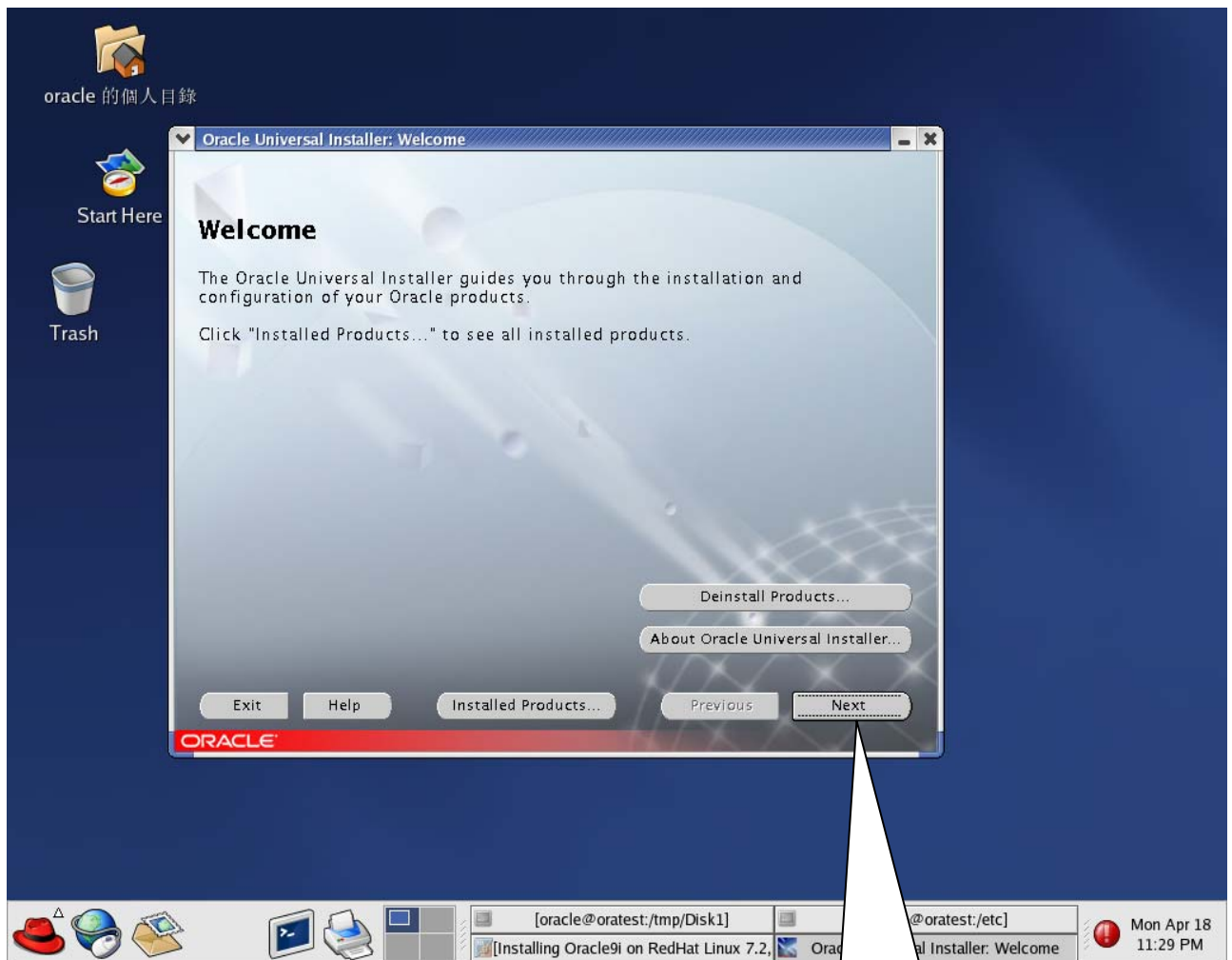
```
sh rhel3_pre_install.sh
```

待出現

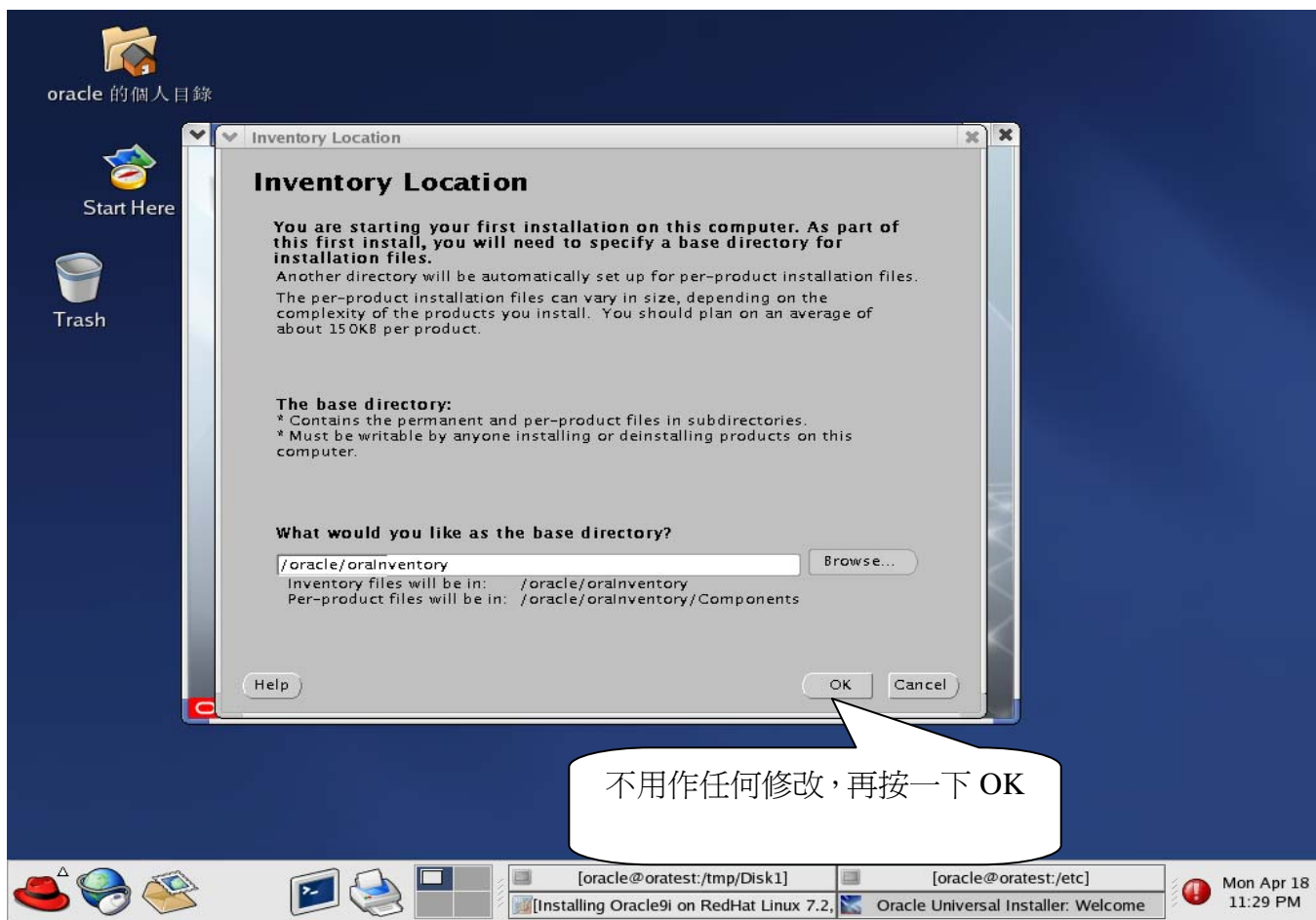
```
Applying patch...
```

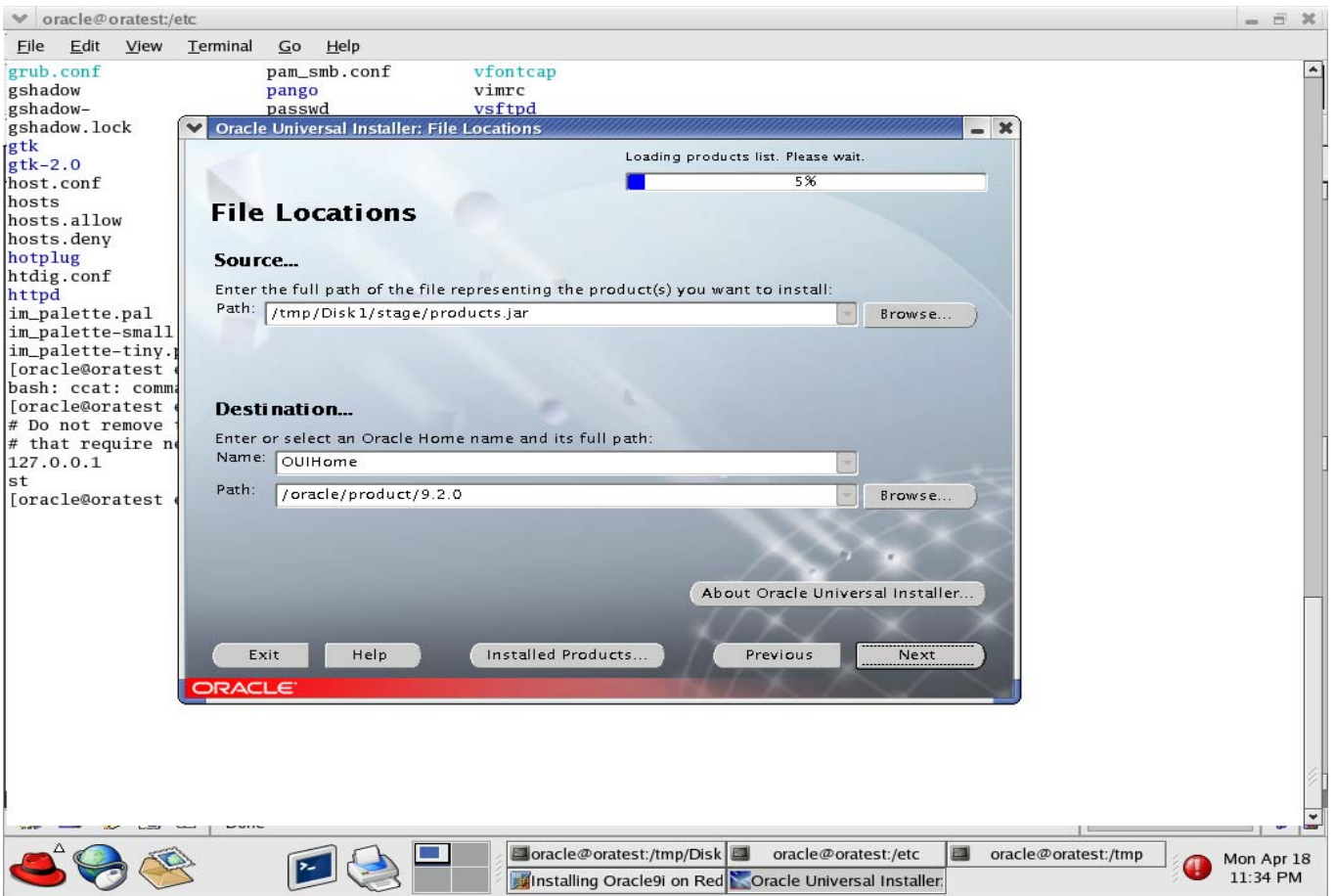
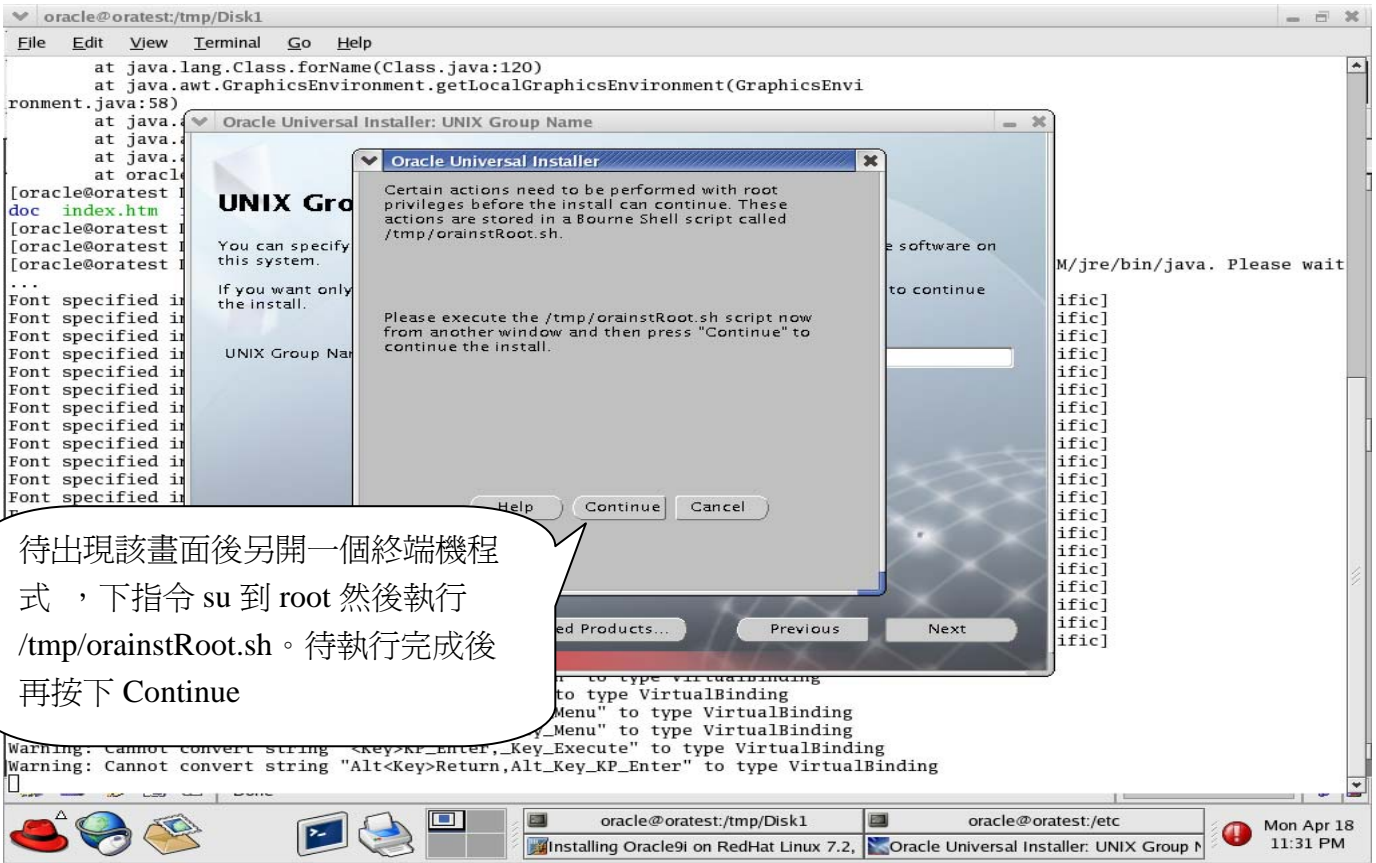
```
Patch successfully applied
```

就完成程式修補，之後再執行一次 `./runInstaller` 稍待一下及會出現 Welcome 畫面

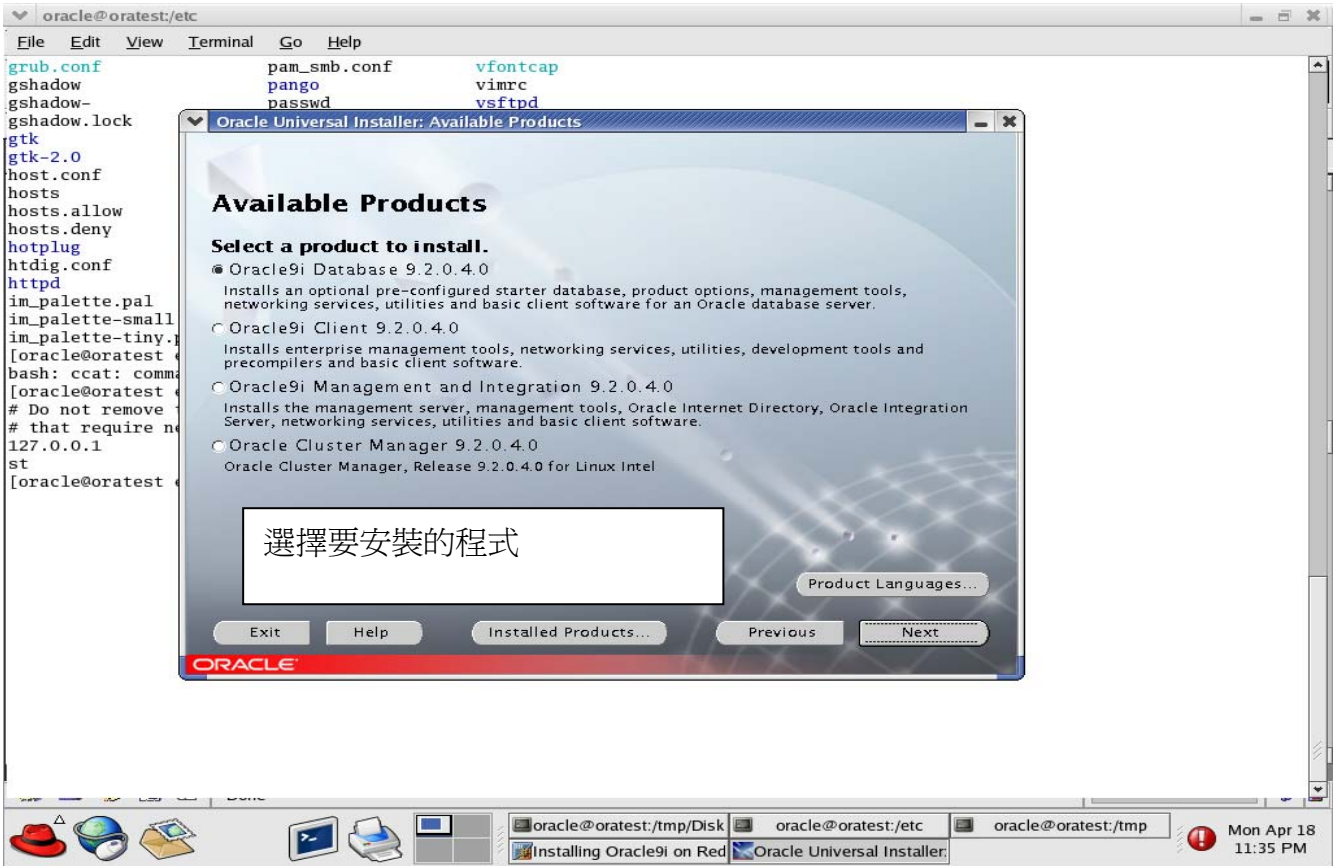


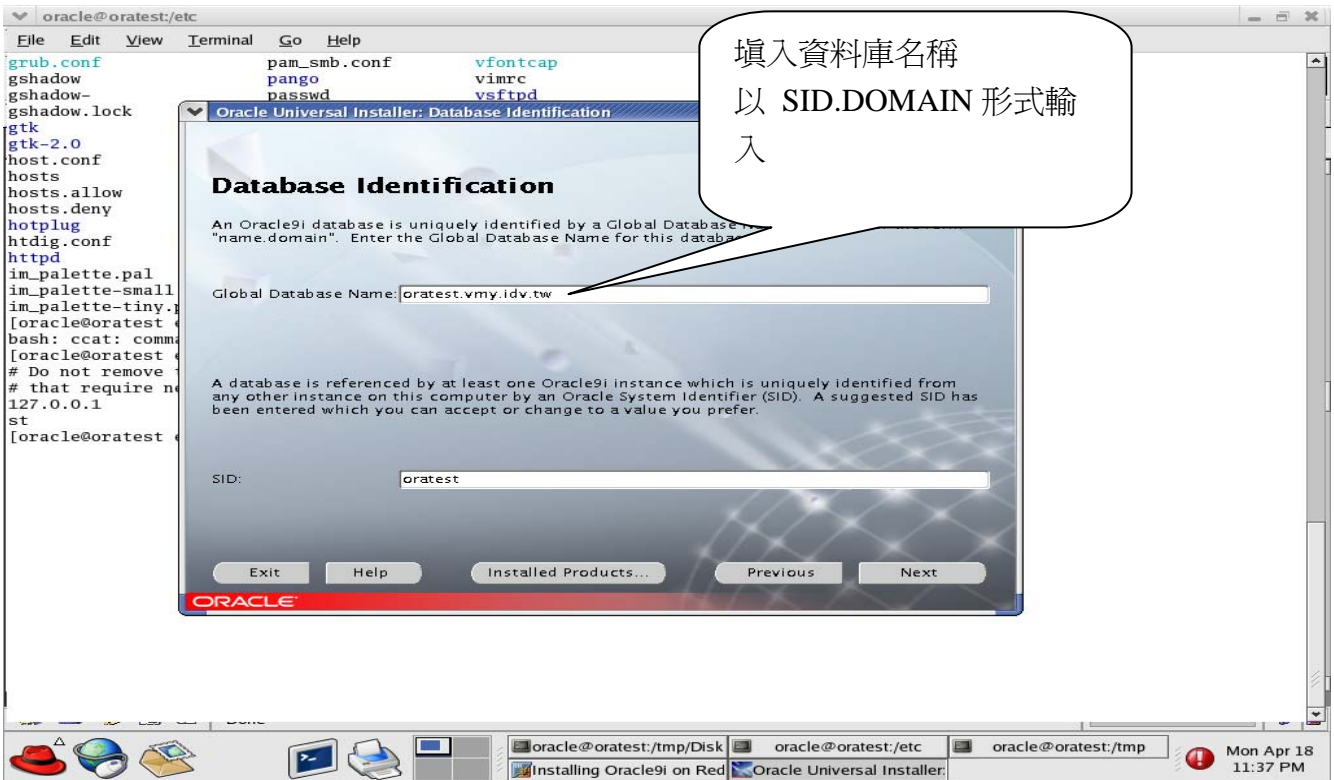
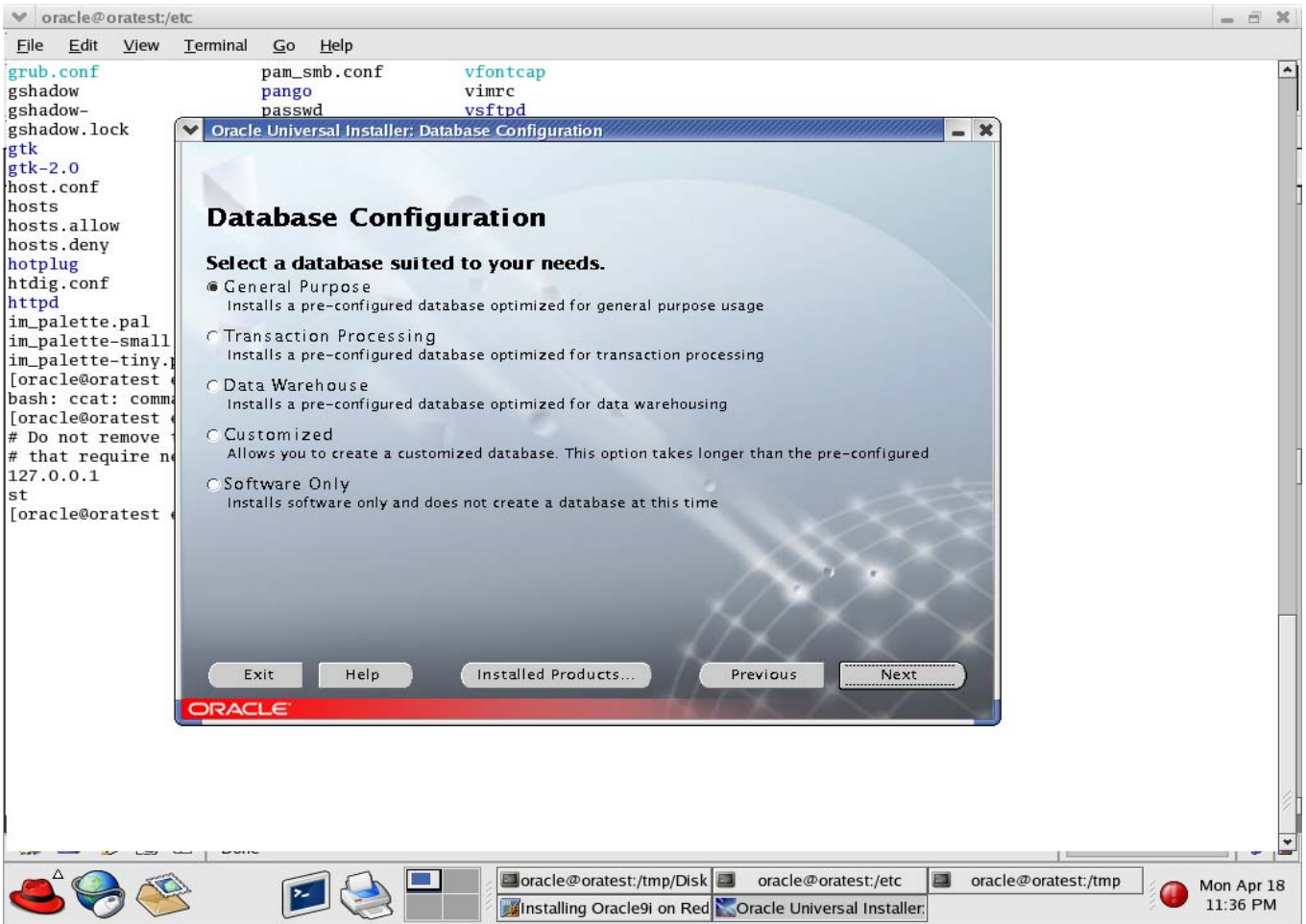
按一下 Next



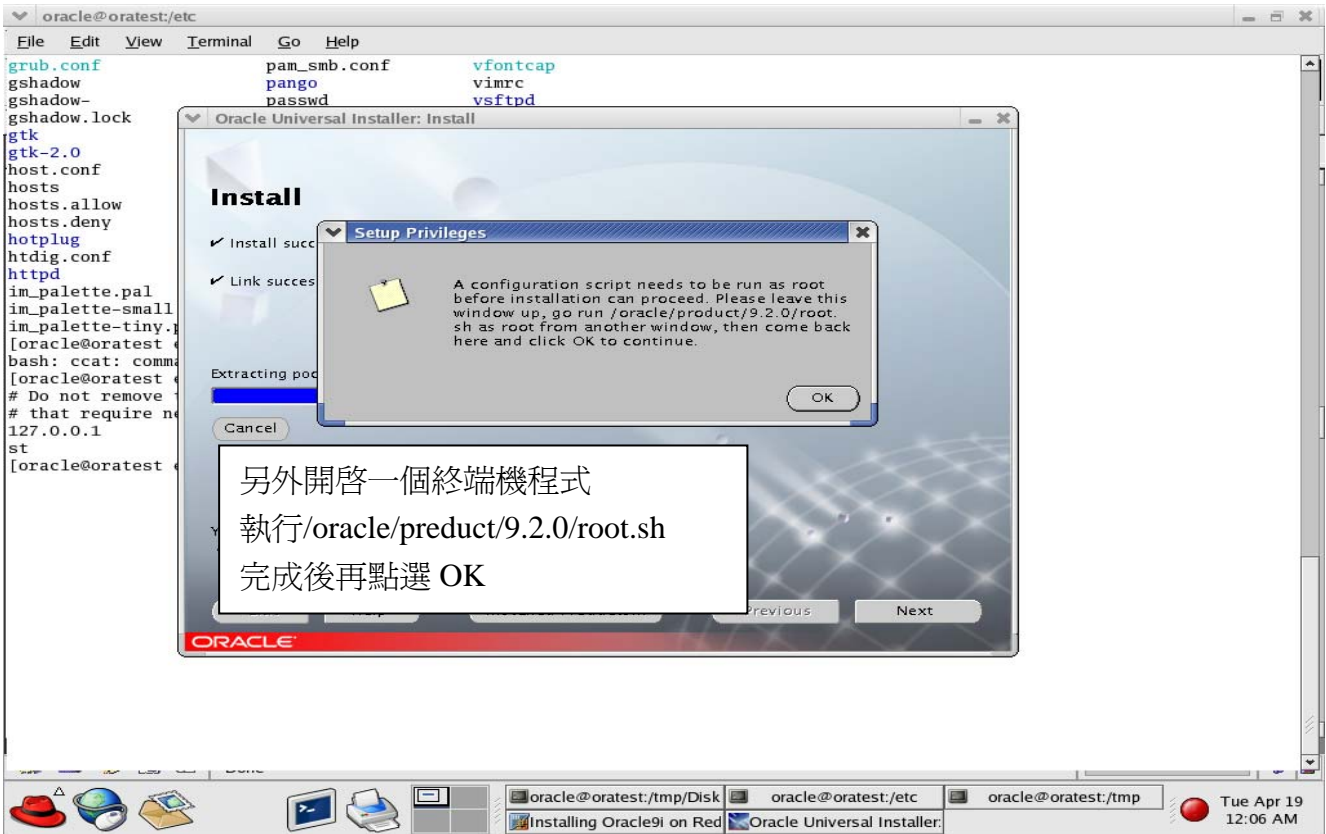
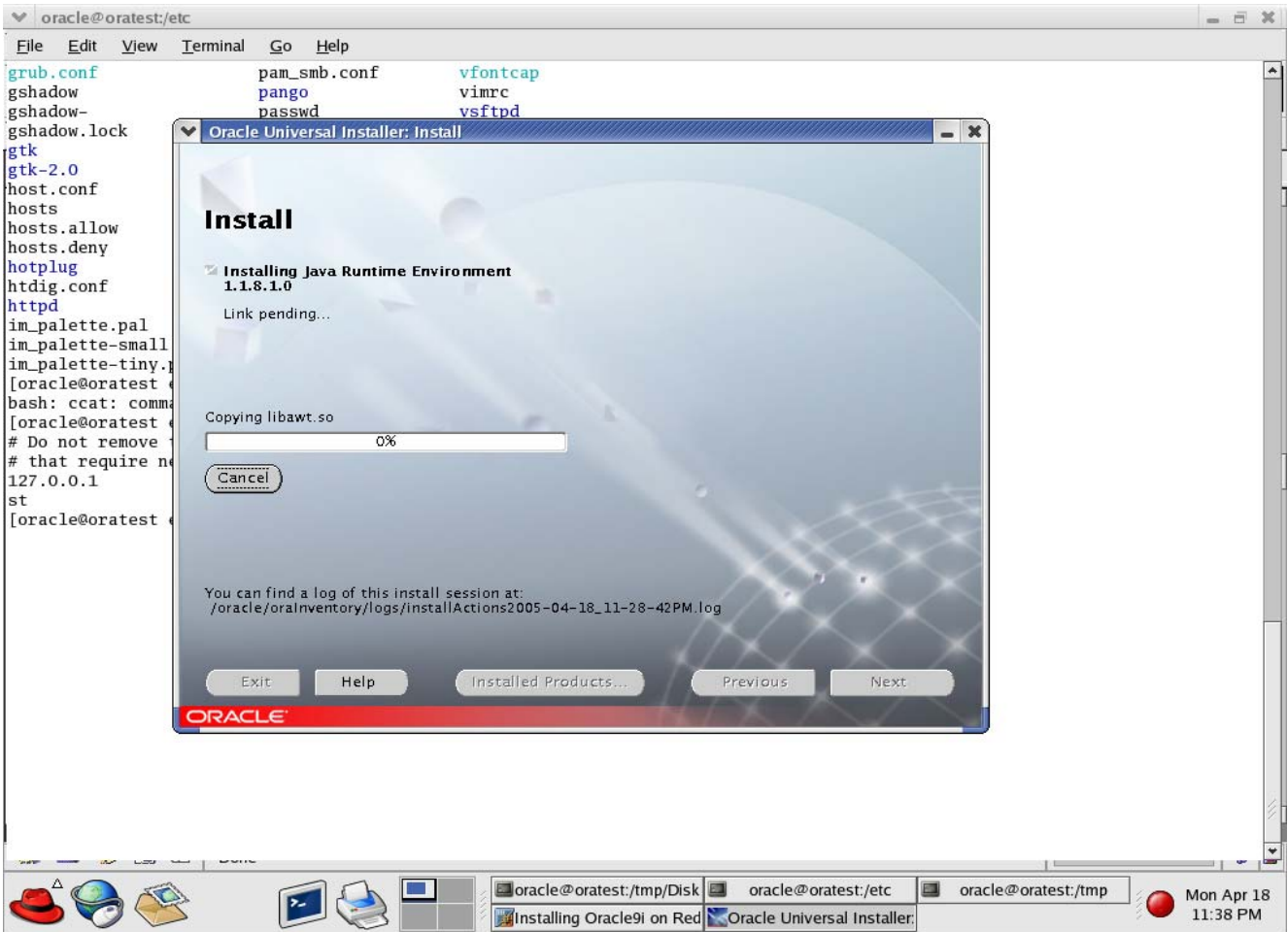


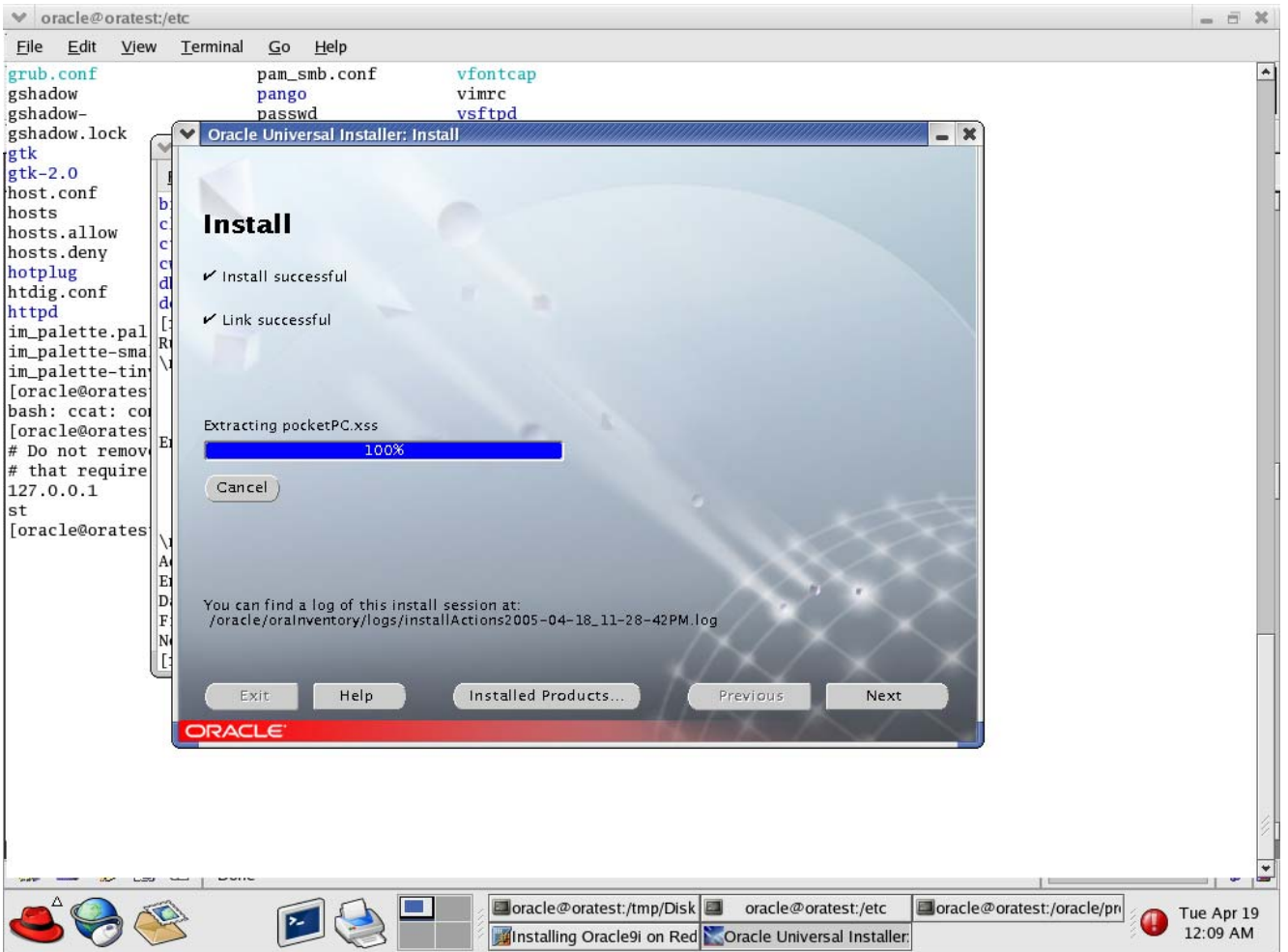
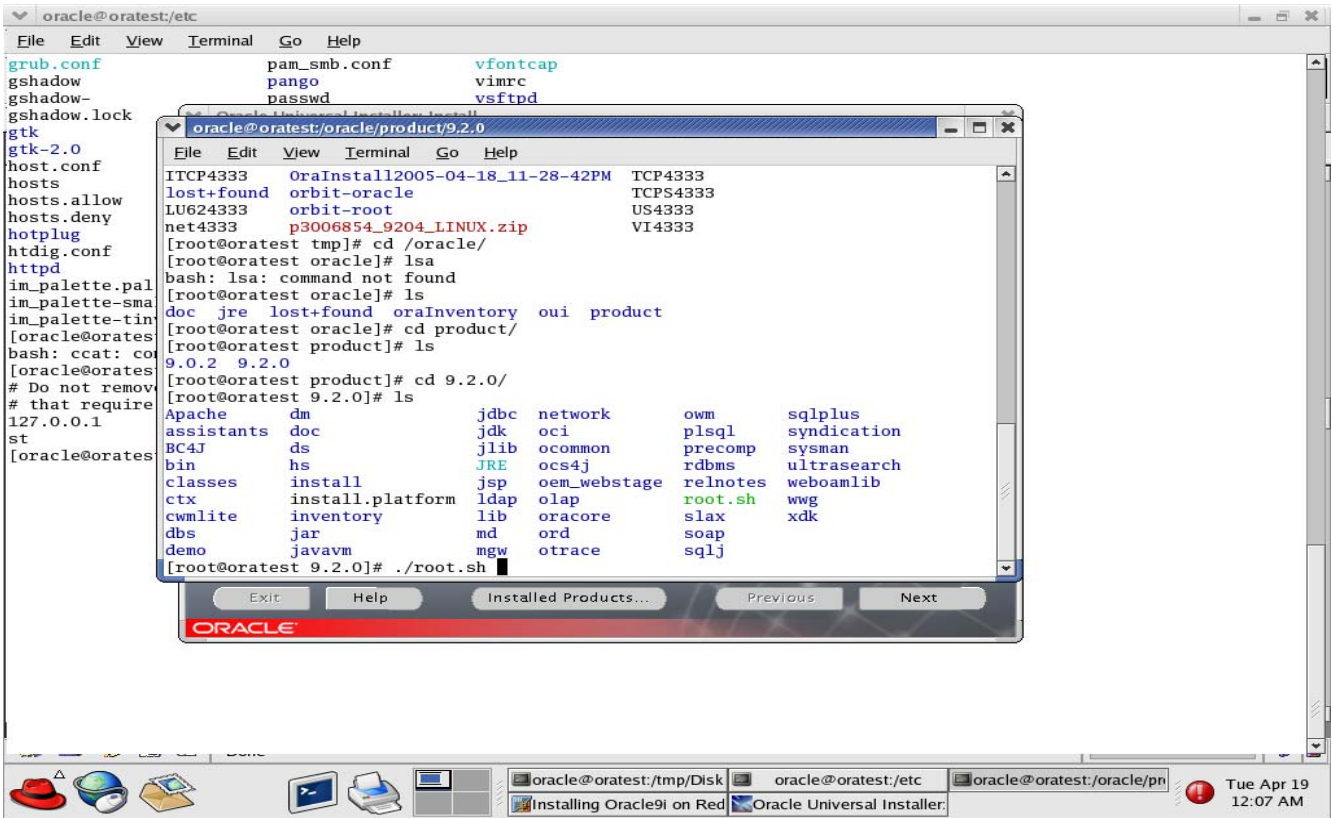


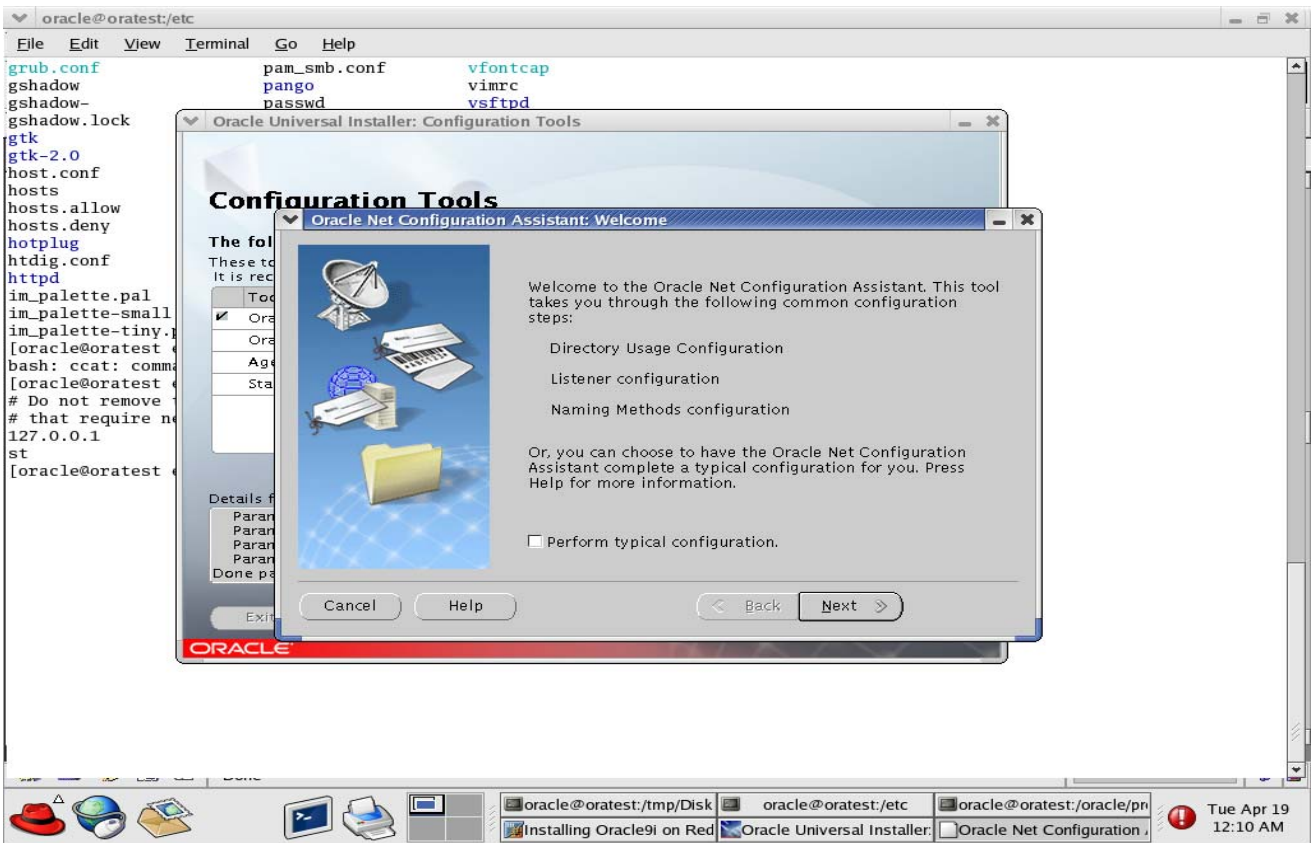
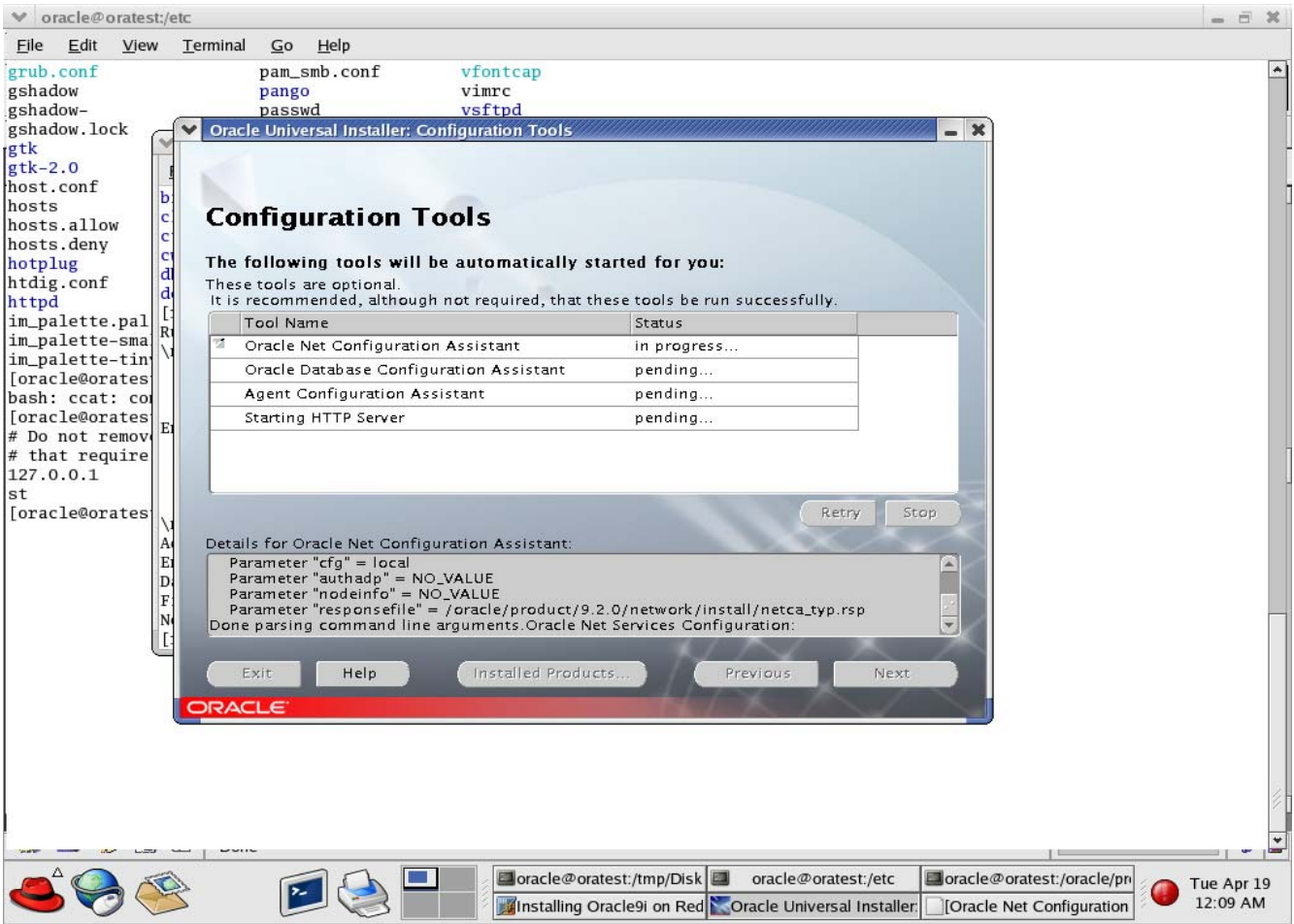




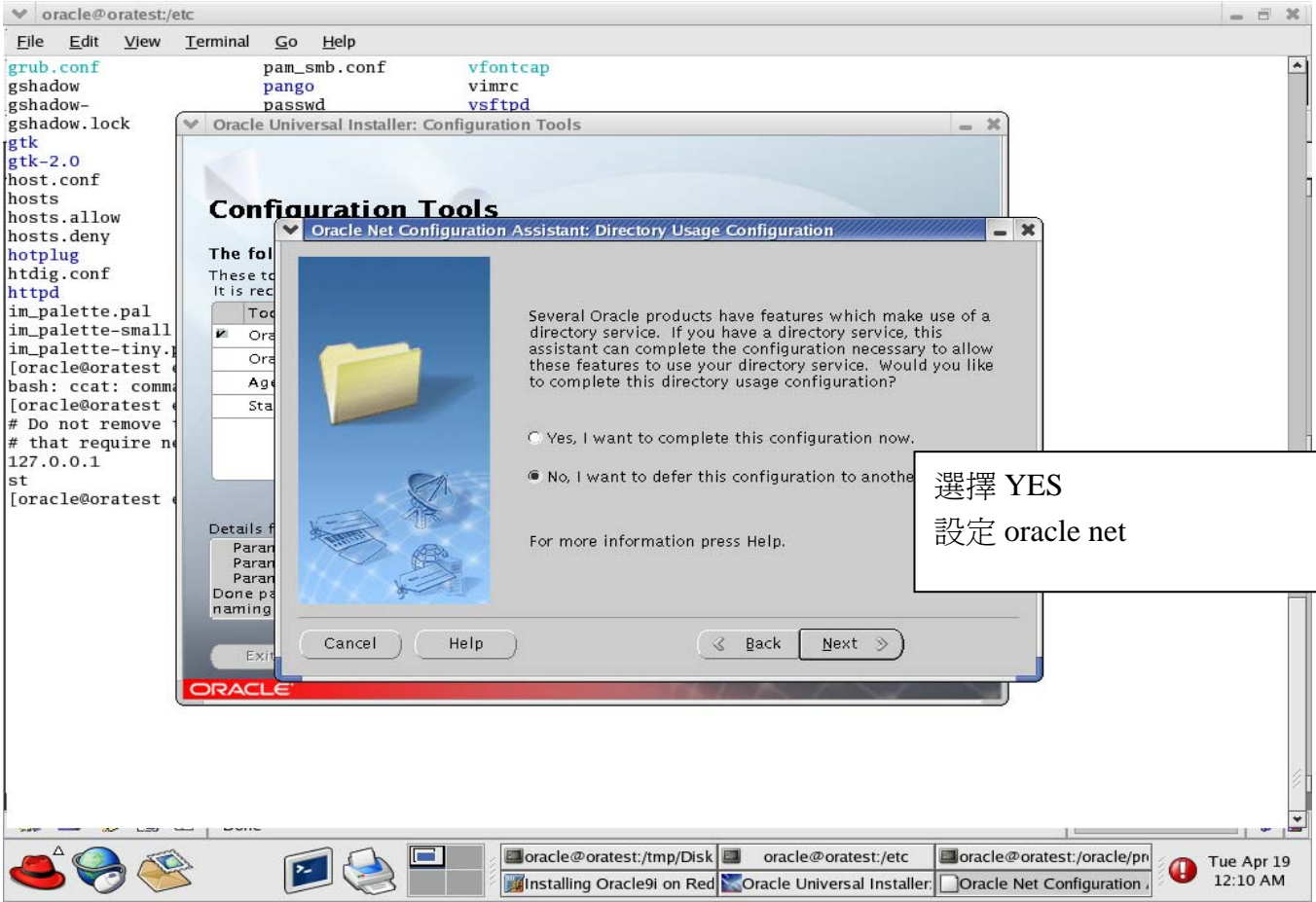




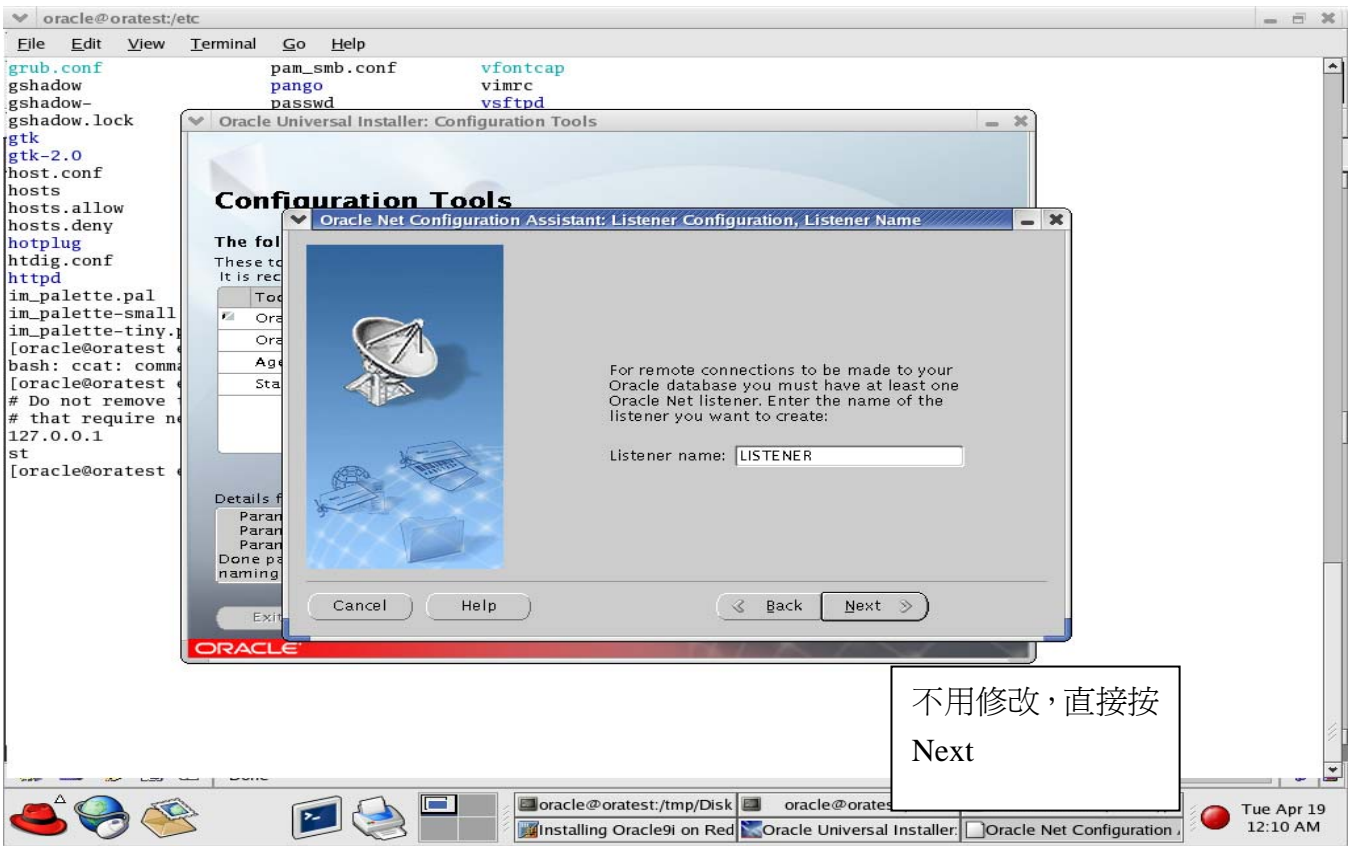




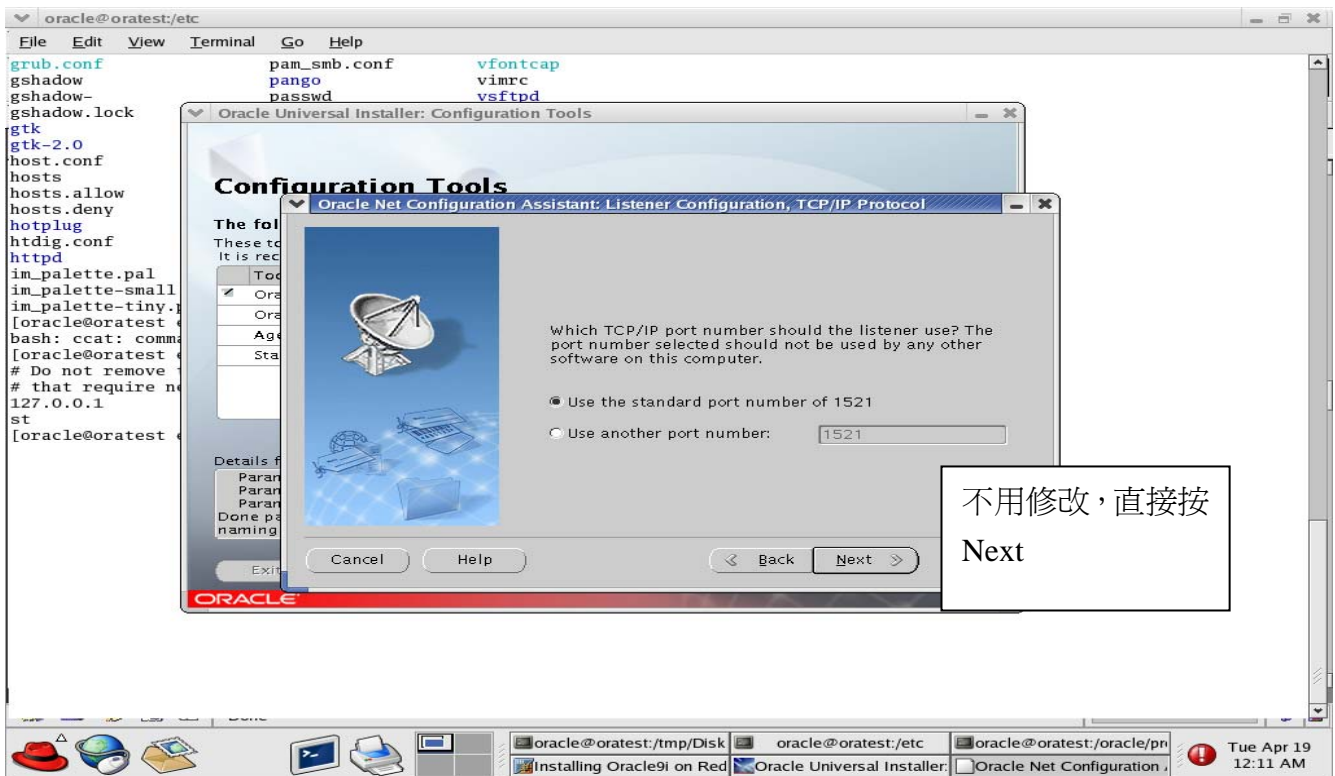
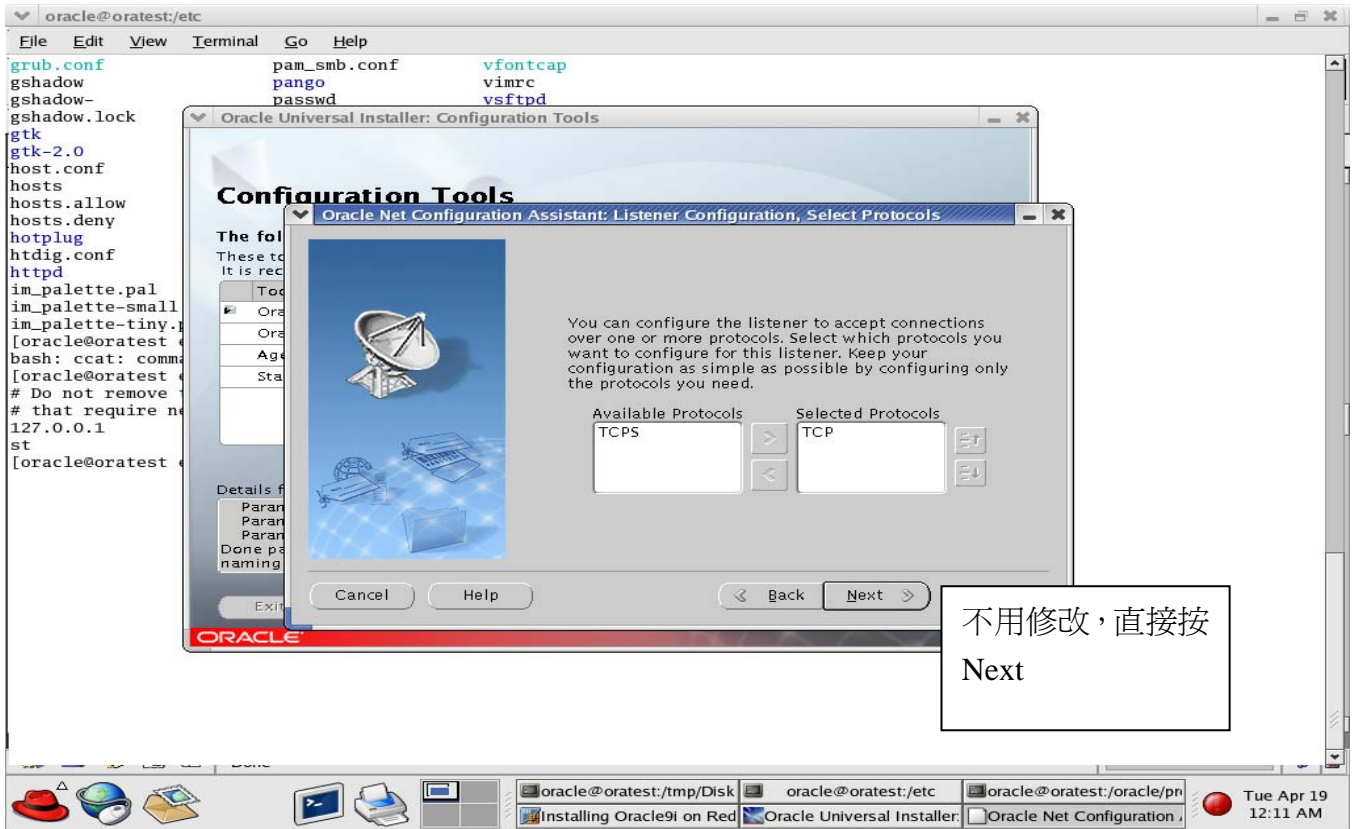




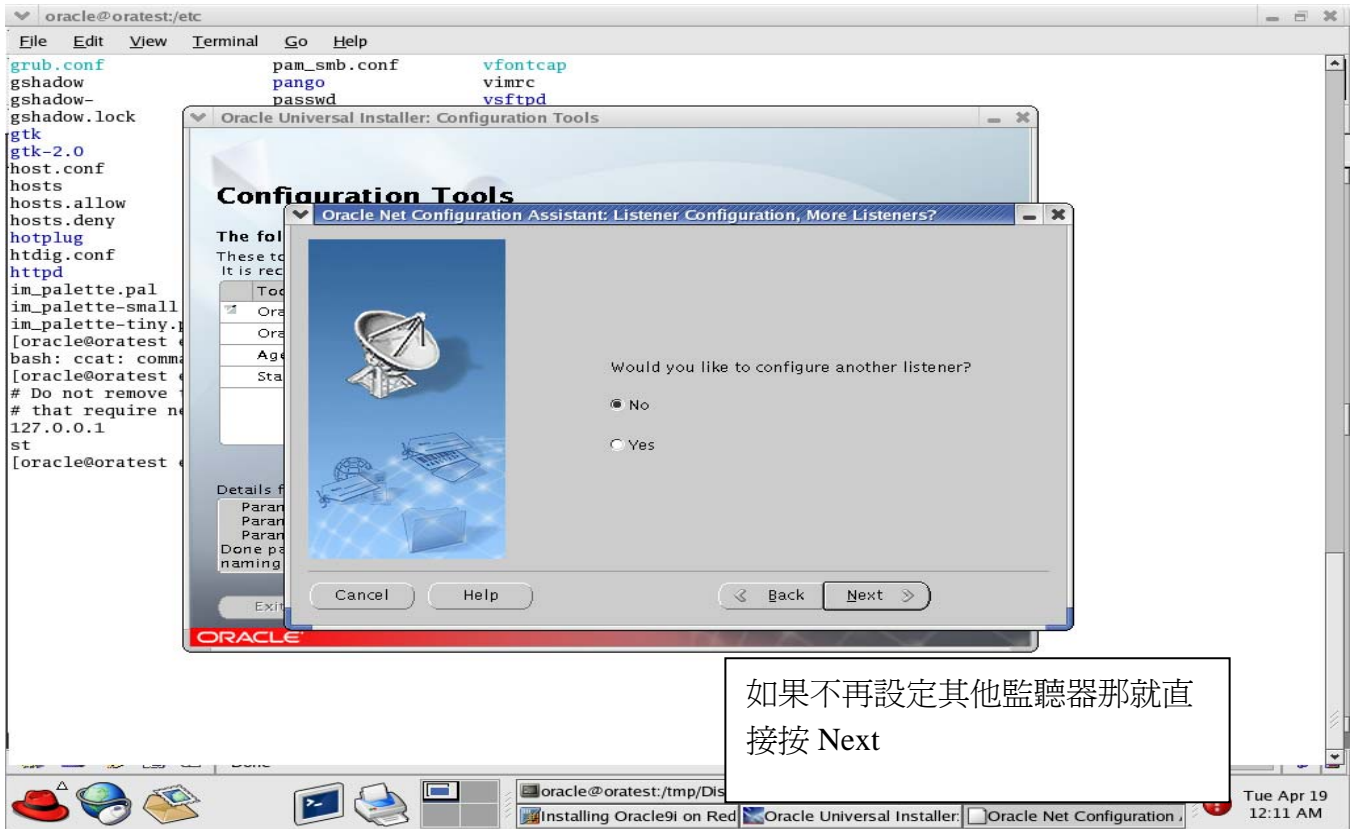
選擇 YES  
設定 oracle net



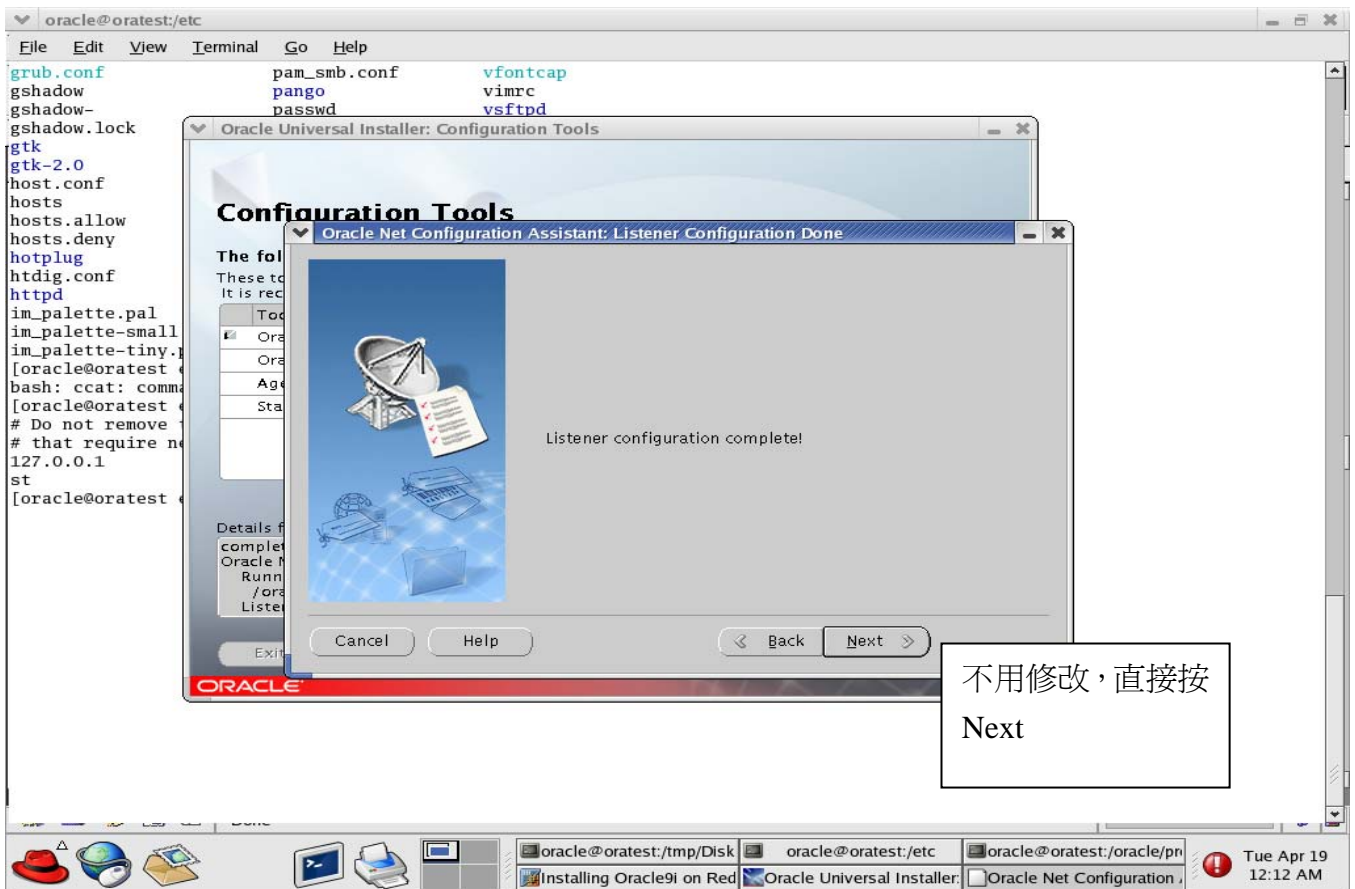
不用修改，直接按  
Next



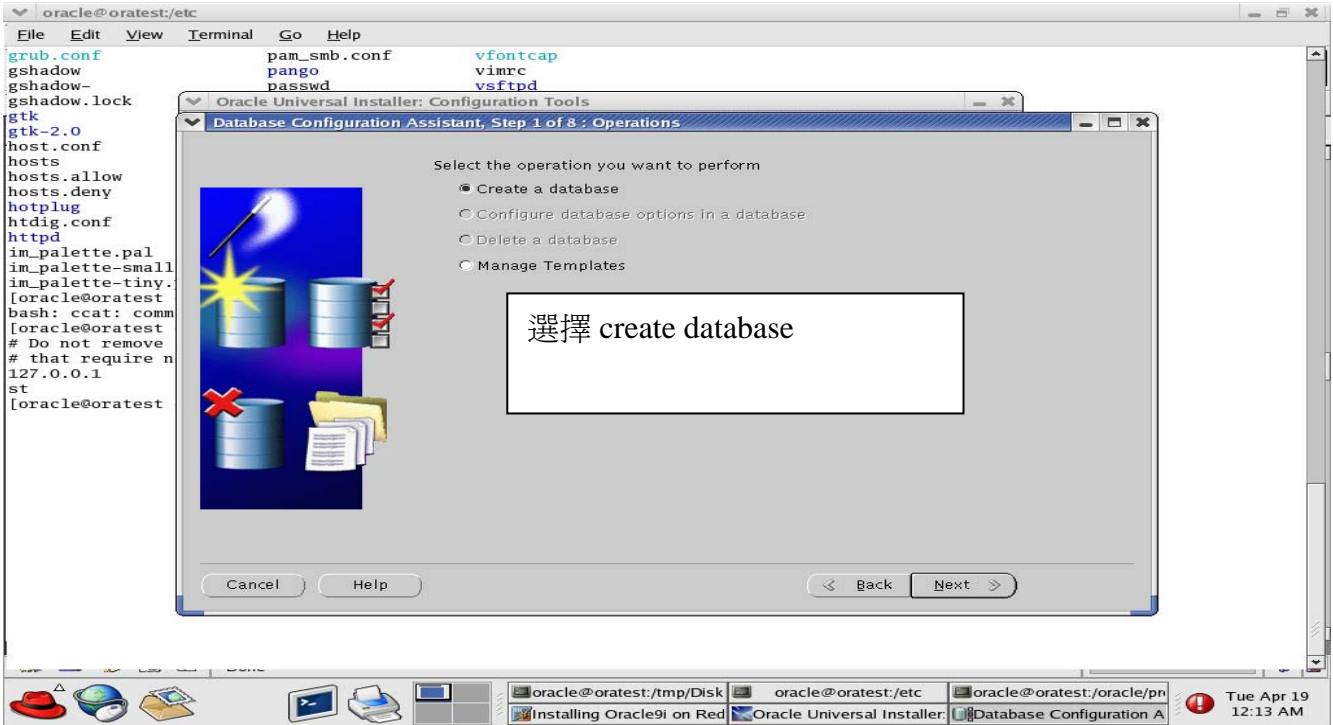
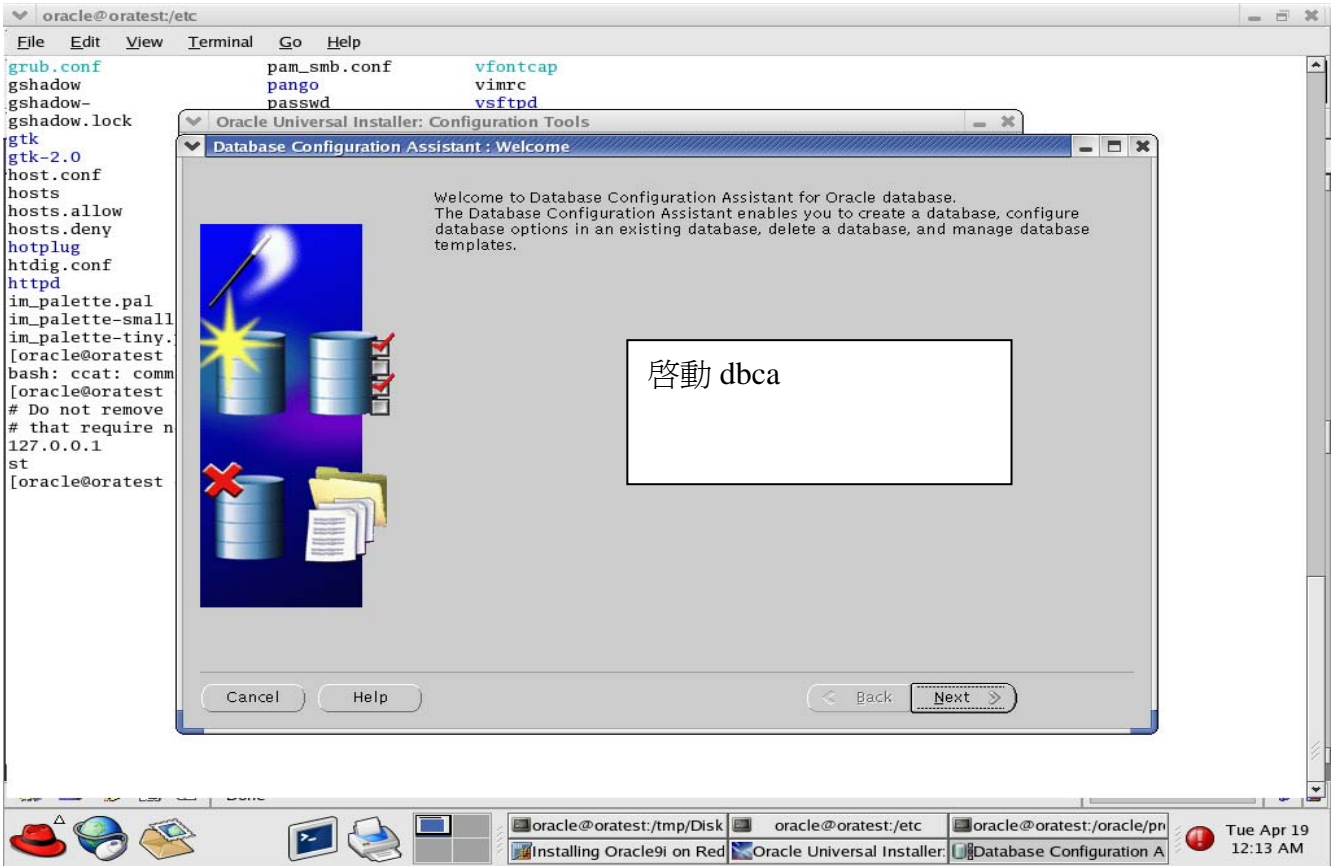




如果不再設定其他監聽器那就直接按 Next



不用修改，直接按 Next



oracle@oratest:/etc

File Edit View Terminal Go Help

```

grub.conf
gshadow
gshadow.lock
gtk
gtk-2.0
host.conf
hosts
hosts.allow
hosts.deny
hotplug
htdig.conf
httpd
in_palette.pal
in_palette-small
in_palette-tiny.
[oracle@oratest
bash: ccat: comm
[oracle@oratest
# Do not remove
# that require n
127.0.0.1
st
[oracle@oratest

```

Oracle Universal Installer: Configuration Tools

Database Configuration Assistant, Step 2 of 8 : Database Templates

Select a template from the following list to create a database:

Select	Template Name	Includes Datafil...
<input type="radio"/>	Data Warehouse	Yes
<input checked="" type="radio"/>	General Purpose	Yes
<input type="radio"/>	Transaction Processing	Yes
<input type="radio"/>	New Database	No

選擇資料庫型態

Show Details...

Cancel Help Back Next

oracle@oratest:/tmp/Disk oracle@oratest:/etc oracle@oratest:/oracle/pn  
Installing Oracle9i on Red Oracle Universal Installer Database Configuration A Tue Apr 19 12:13 AM

oracle@oratest:/etc

File Edit View Terminal Go Help

```

grub.conf
gshadow
gshadow.lock
gtk
gtk-2.0
host.conf
hosts
hosts.allow
hosts.deny
hotplug
htdig.conf
httpd
in_palette.pal
in_palette-small
in_palette-tiny.
[oracle@oratest
bash: ccat: comm
[oracle@oratest
# Do not remove
# that require n
127.0.0.1
st
[oracle@oratest

```

Oracle Universal Installer: Configuration Tools

Database Configuration Assistant, Step 3 of 7 : Database Identification

Specify the following database information.

An Oracle9i database is uniquely identified by a Global Database Name, typically of the form "name.domain".

Global Database Name:

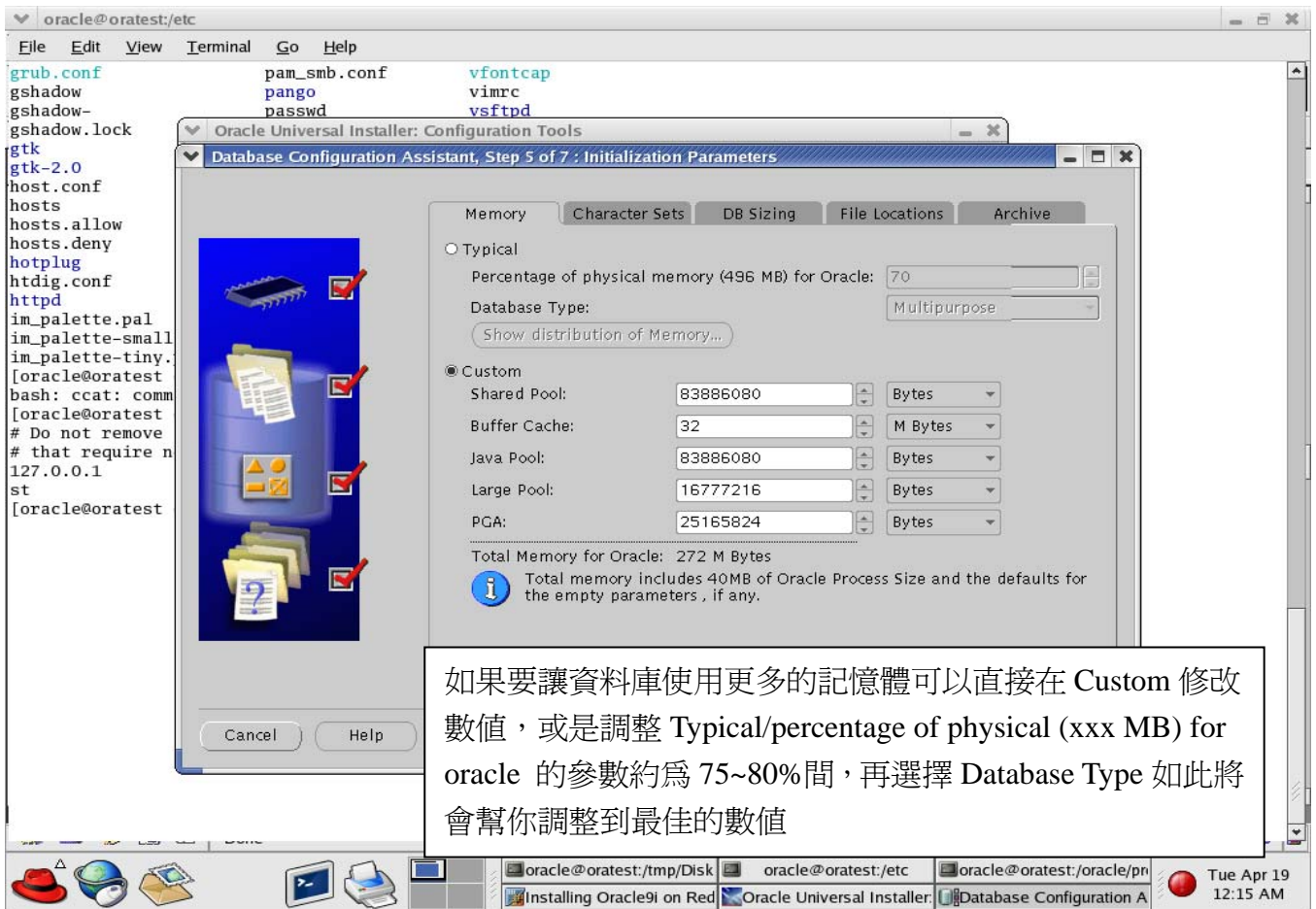
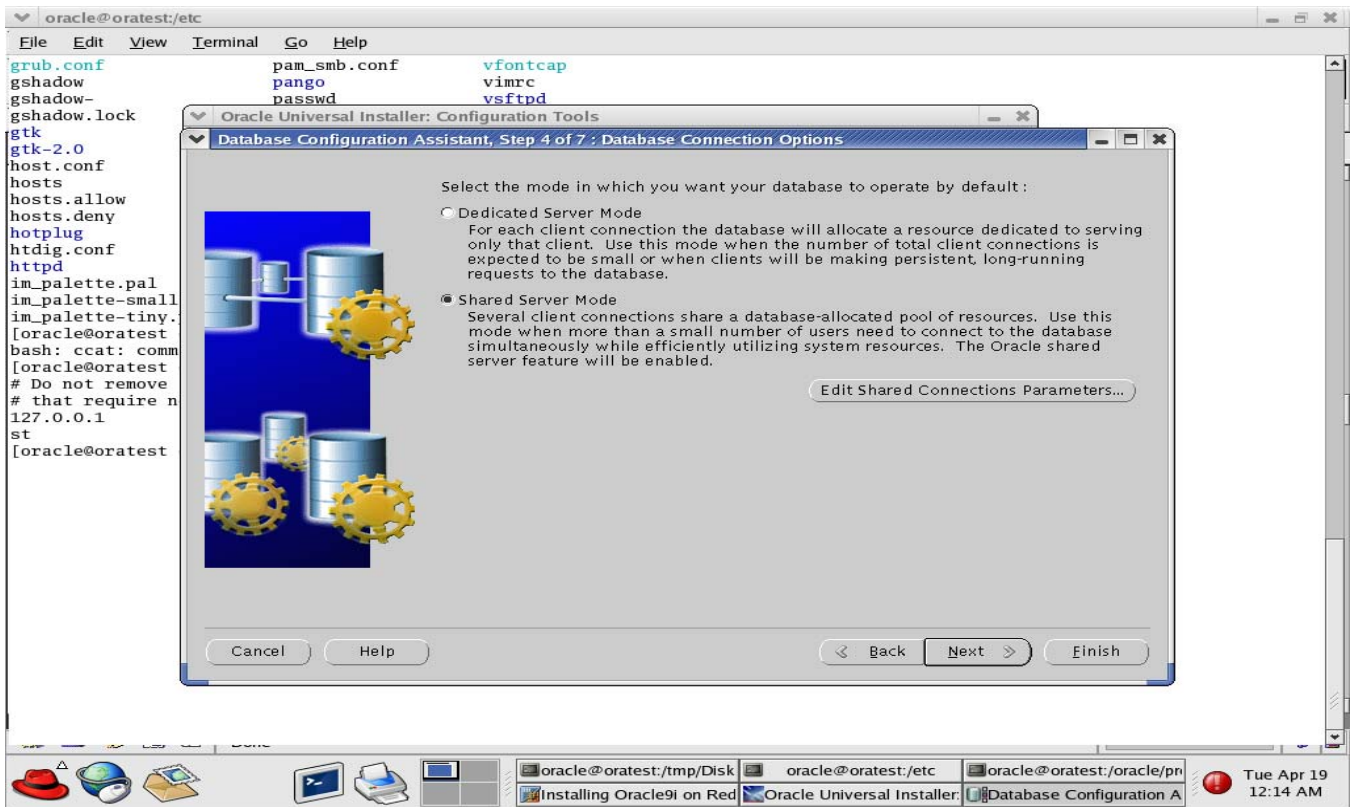
A database is referenced by at least one Oracle9i instance which is uniquely identified from any other instance on this computer by an Oracle System Identifier (SID).

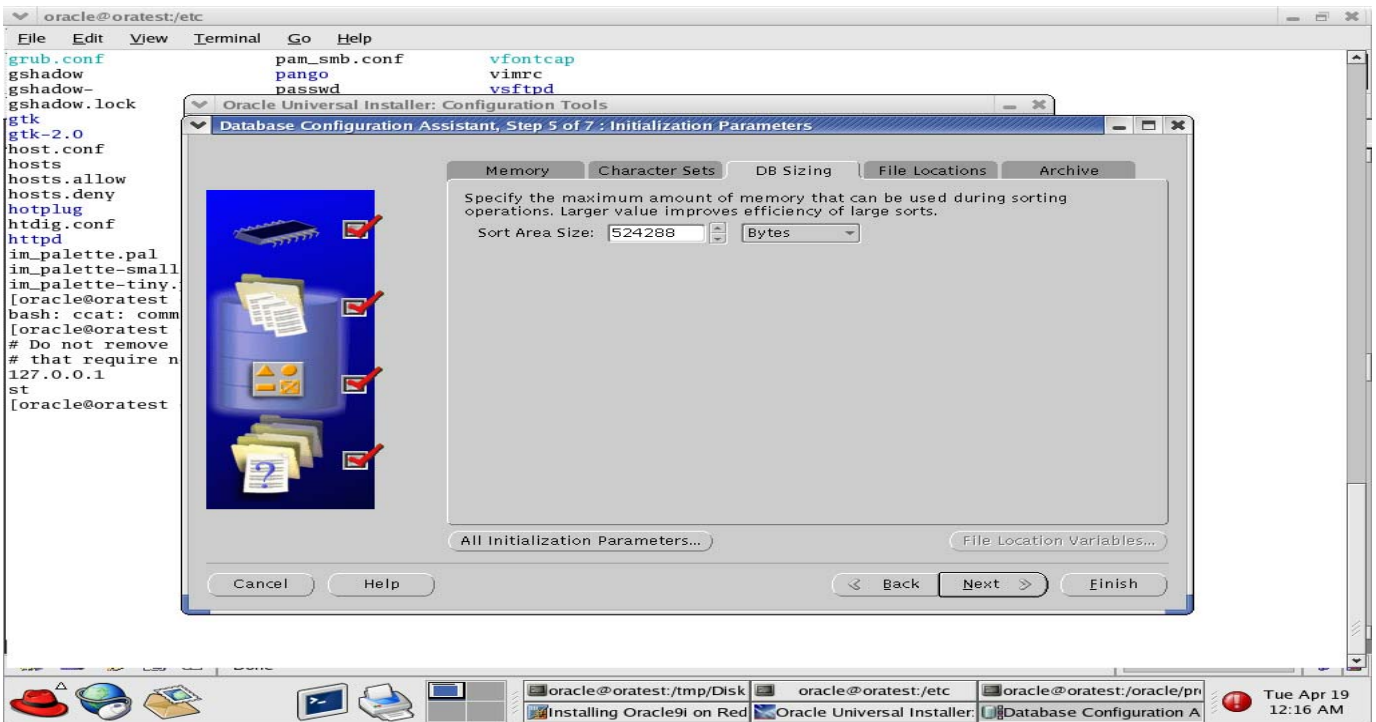
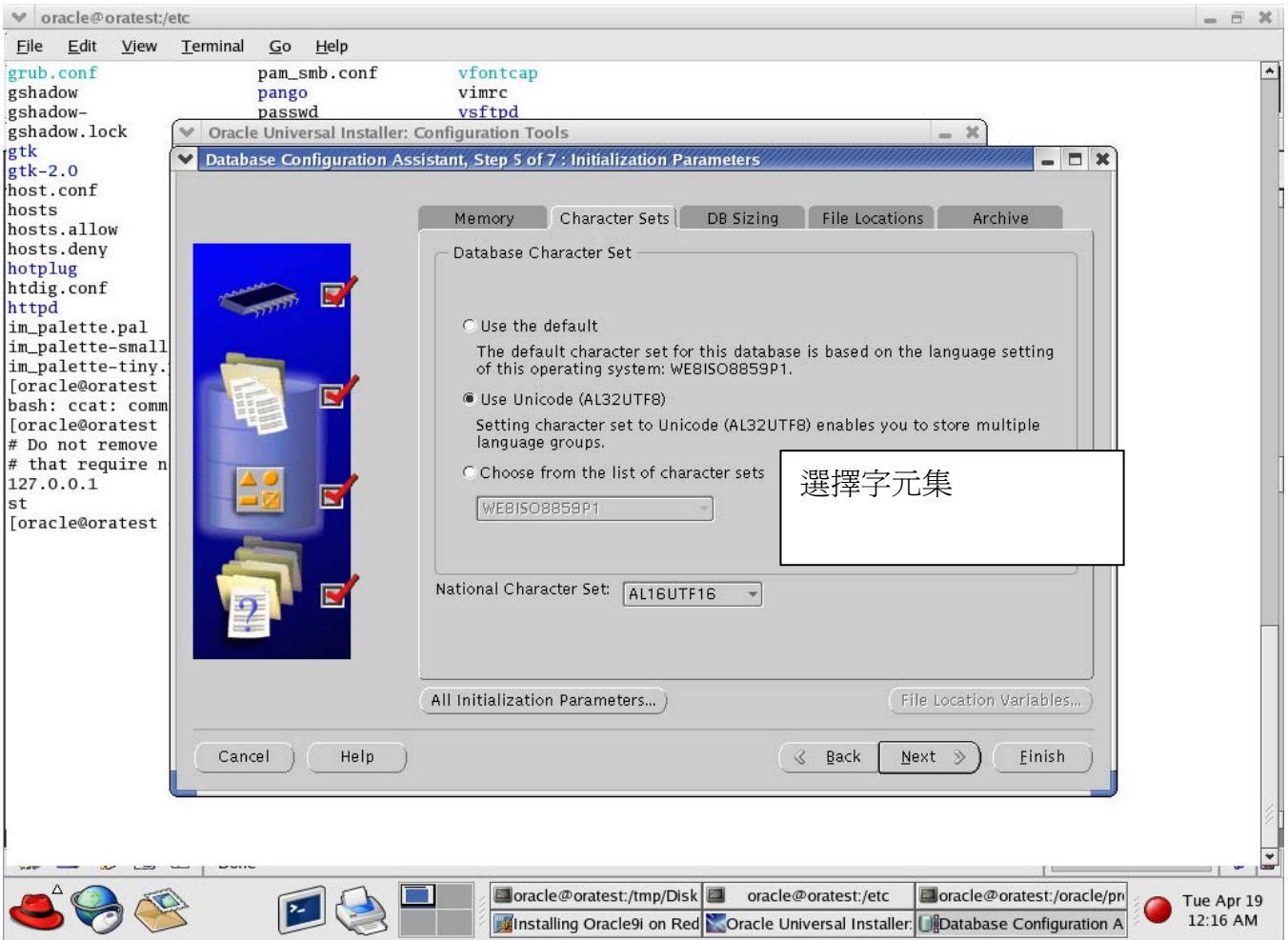
SID:

Cancel Help Back Next Finish

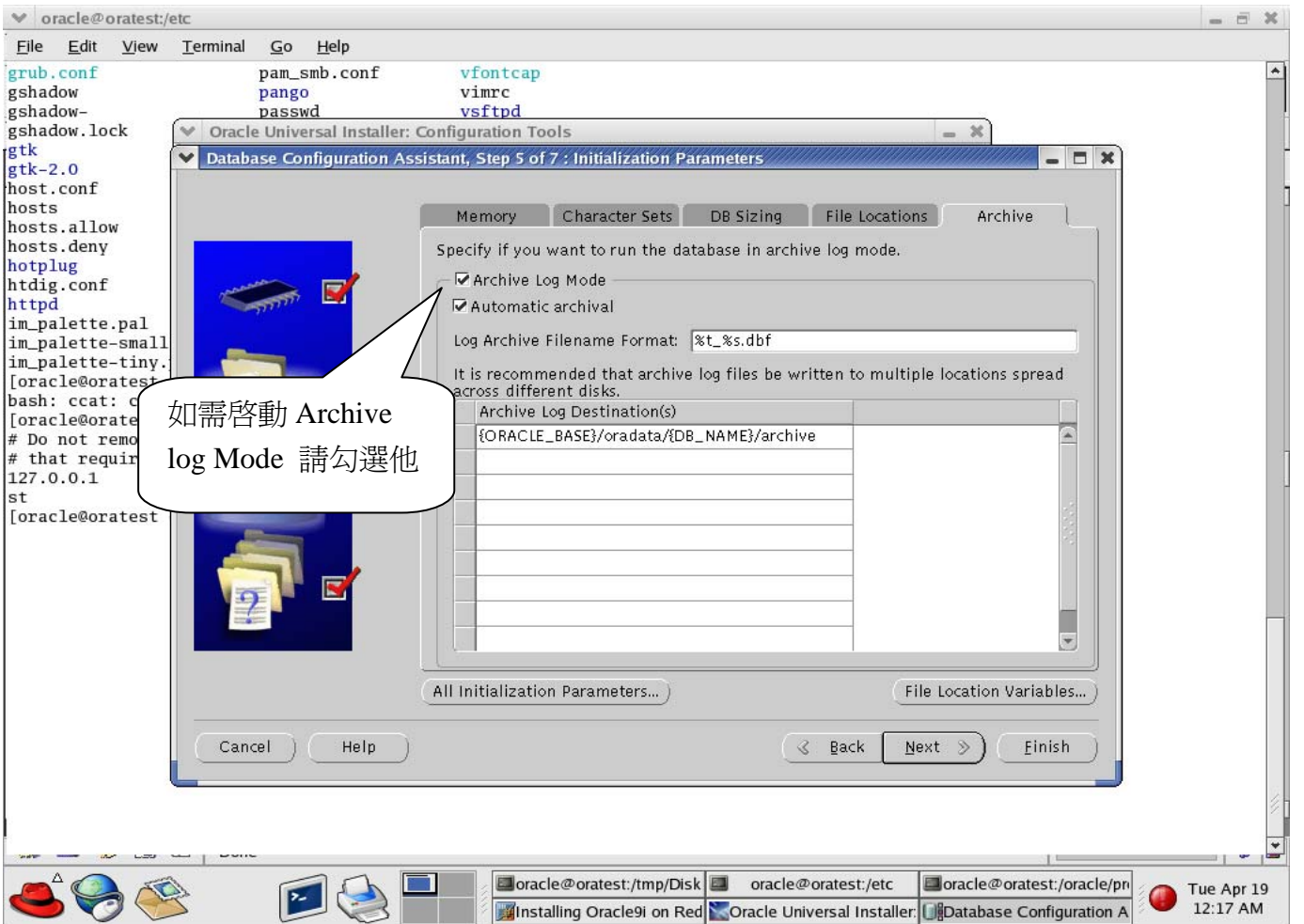
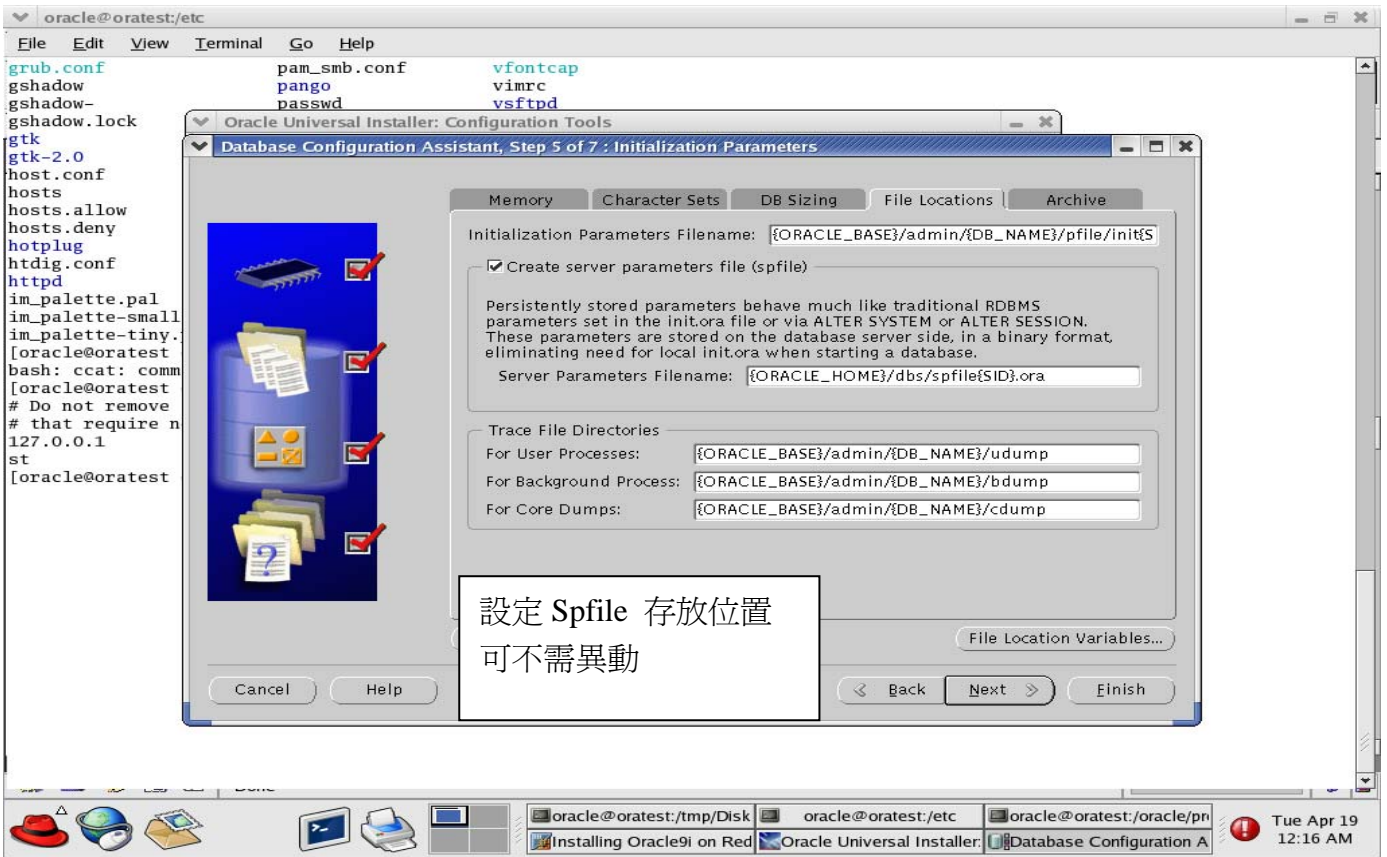
oracle@oratest:/tmp/Disk oracle@oratest:/etc oracle@oratest:/oracle/pn  
Installing Oracle9i on Red Oracle Universal Installer Database Configuration A Tue Apr 19 12:14 AM

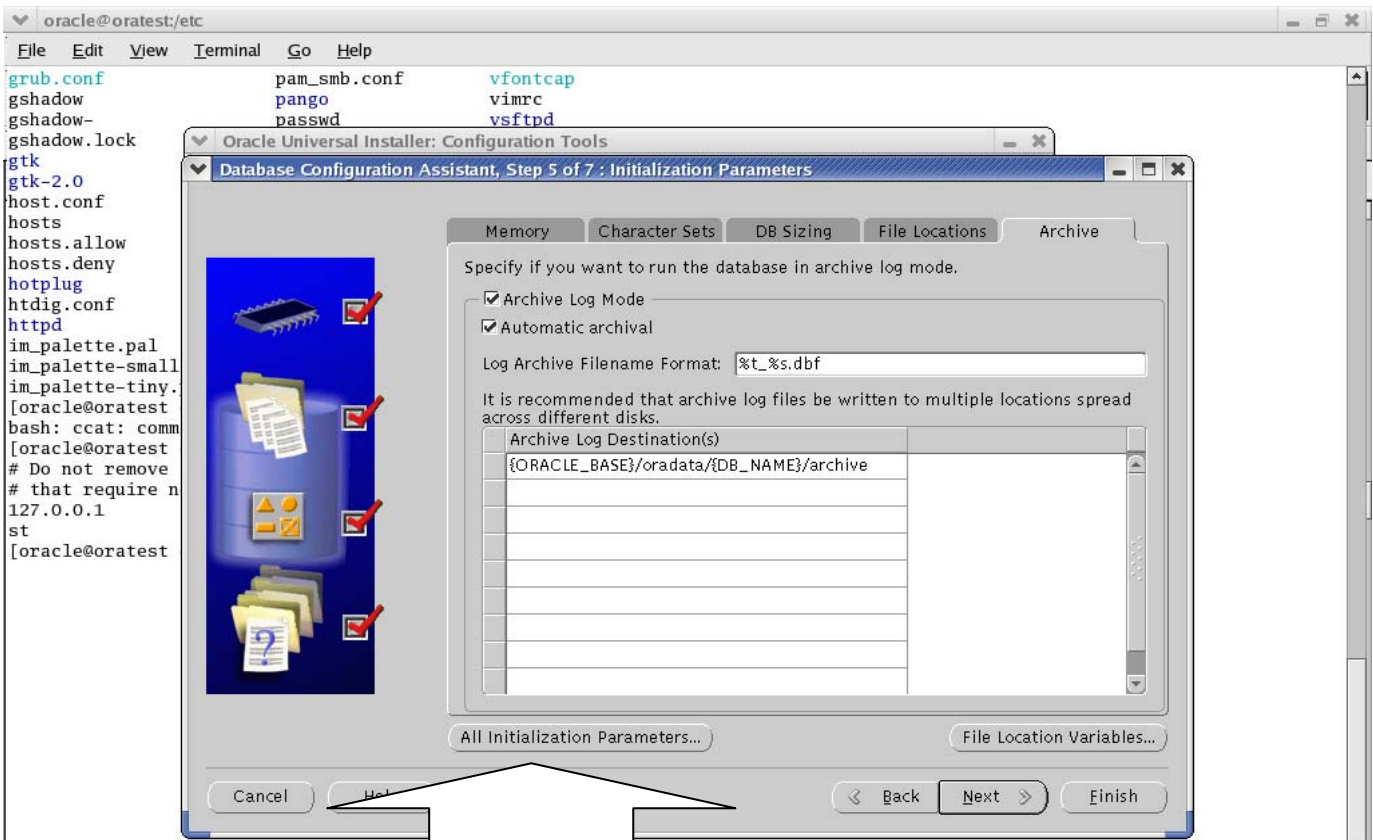




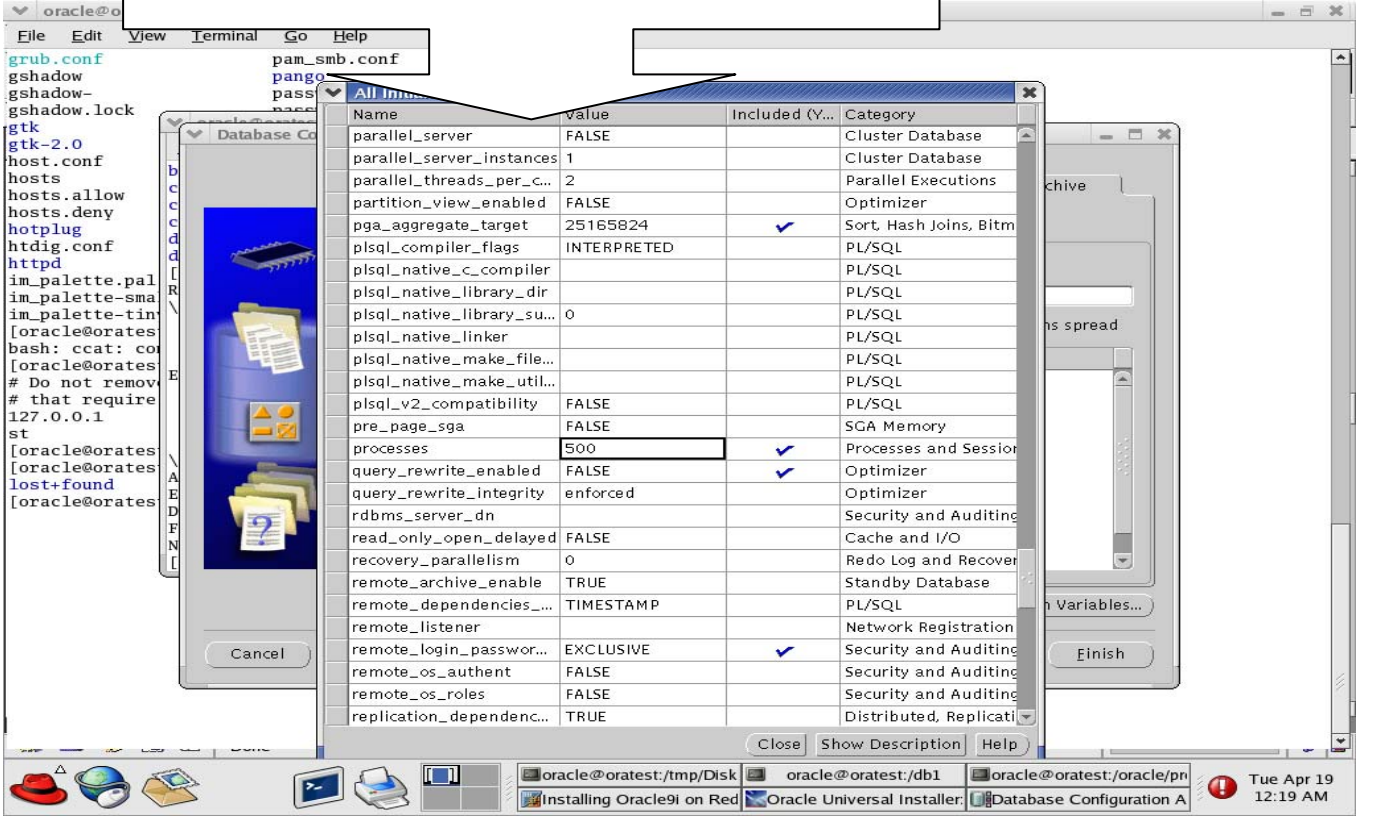


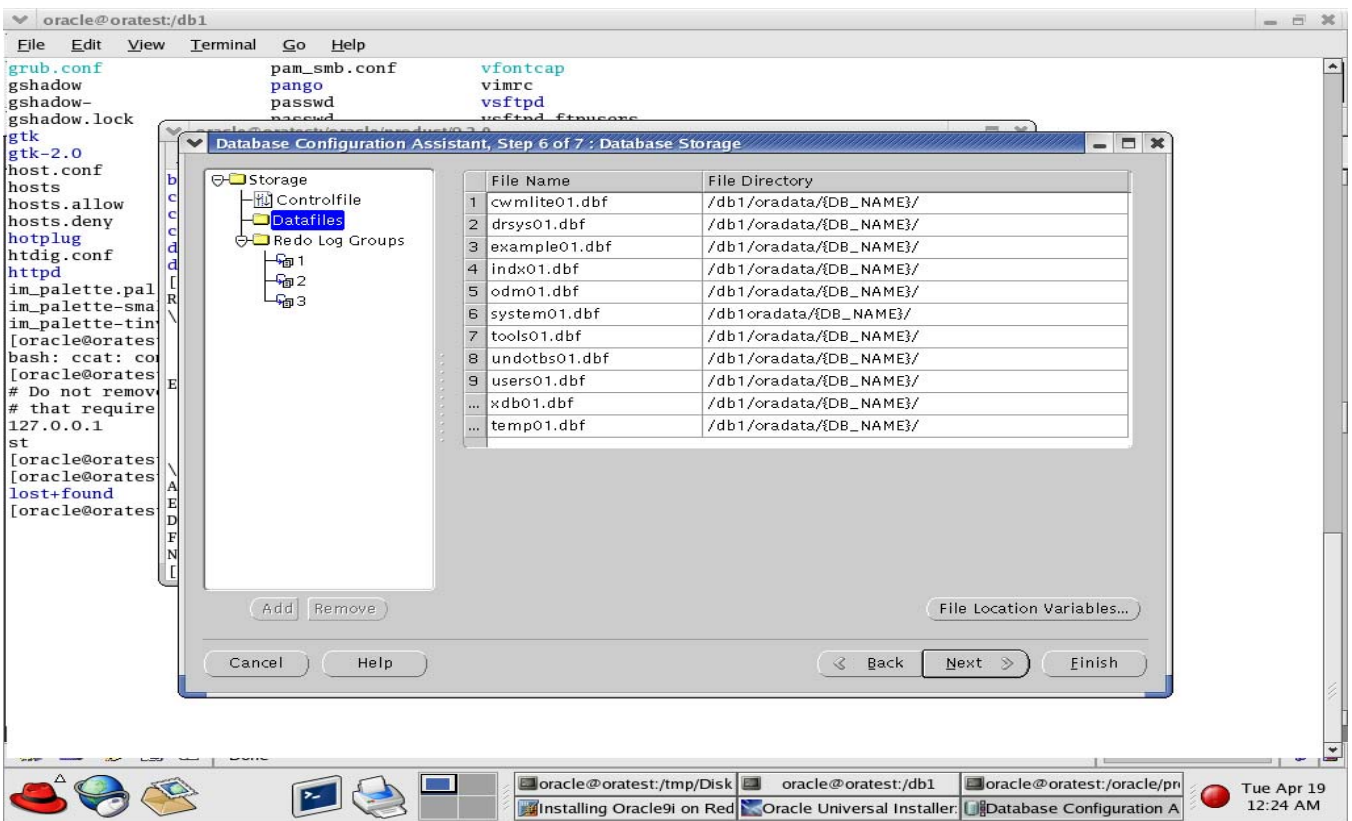
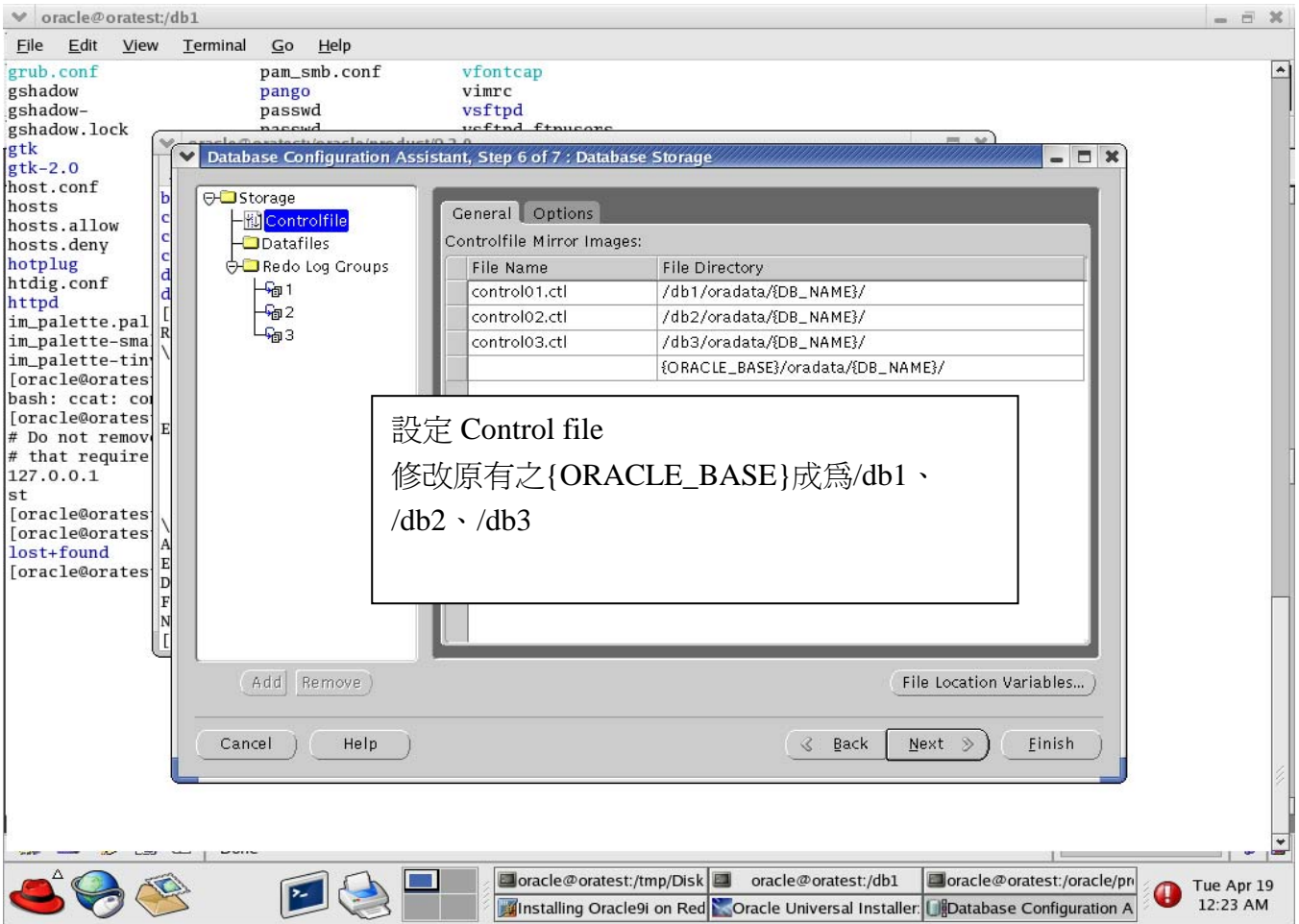




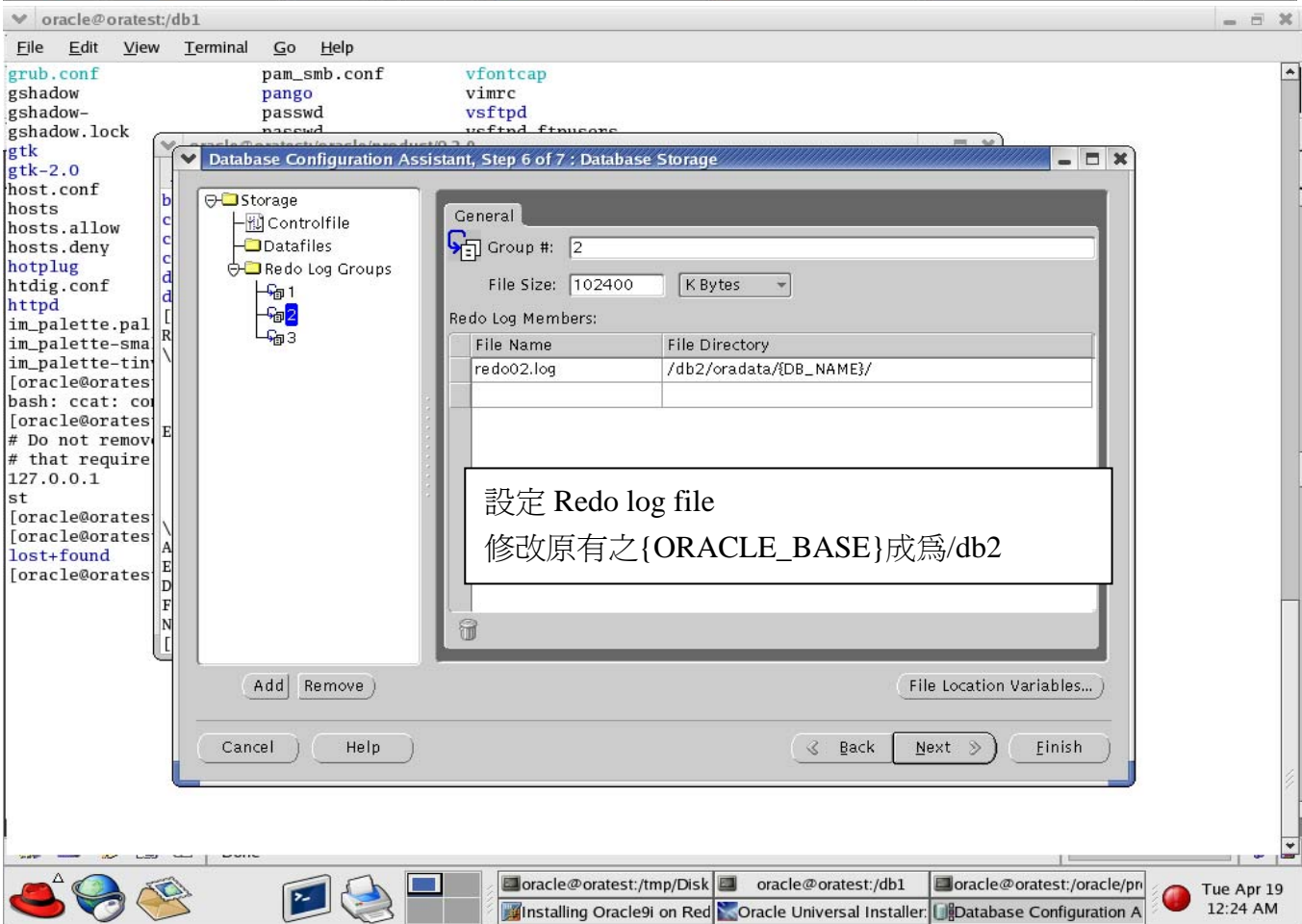
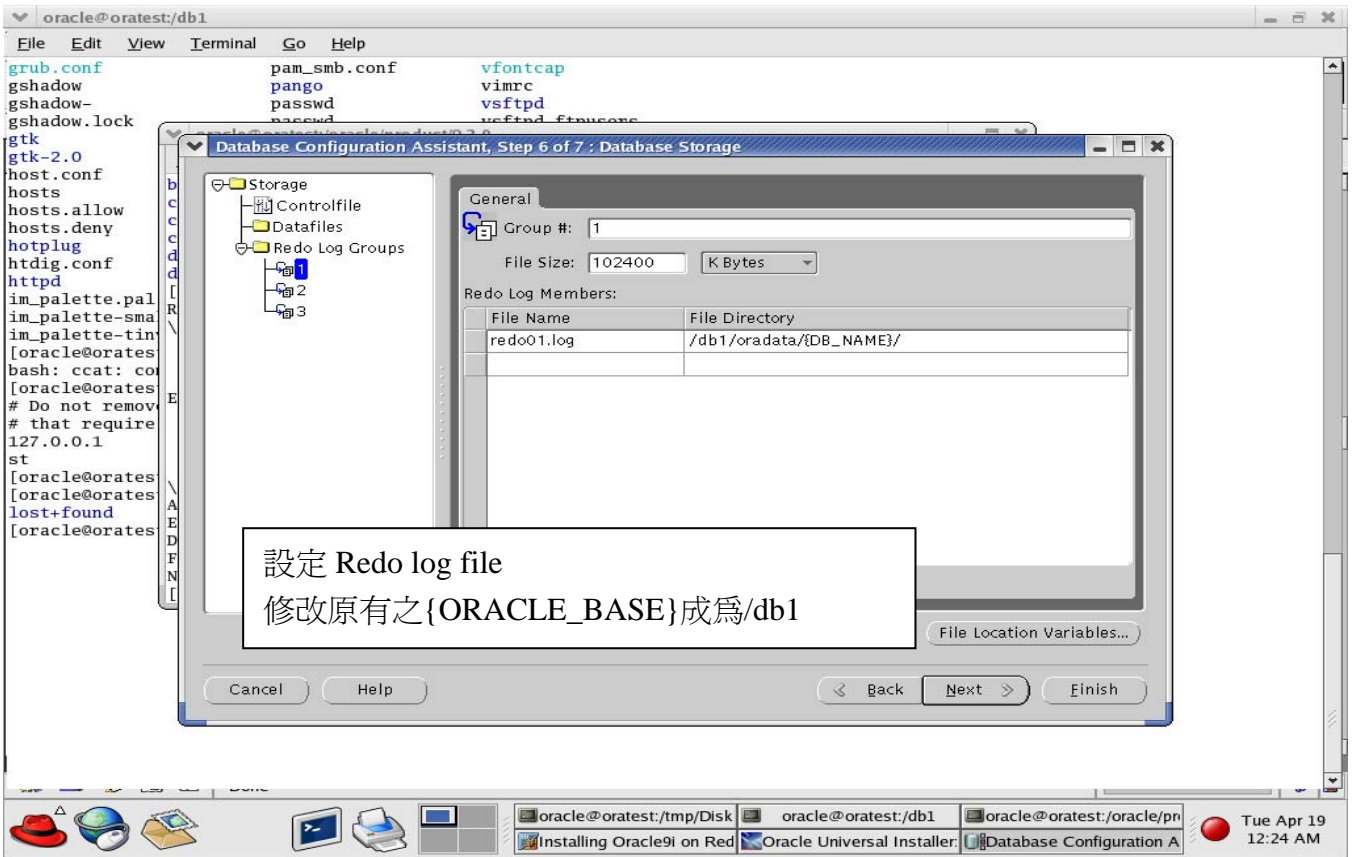


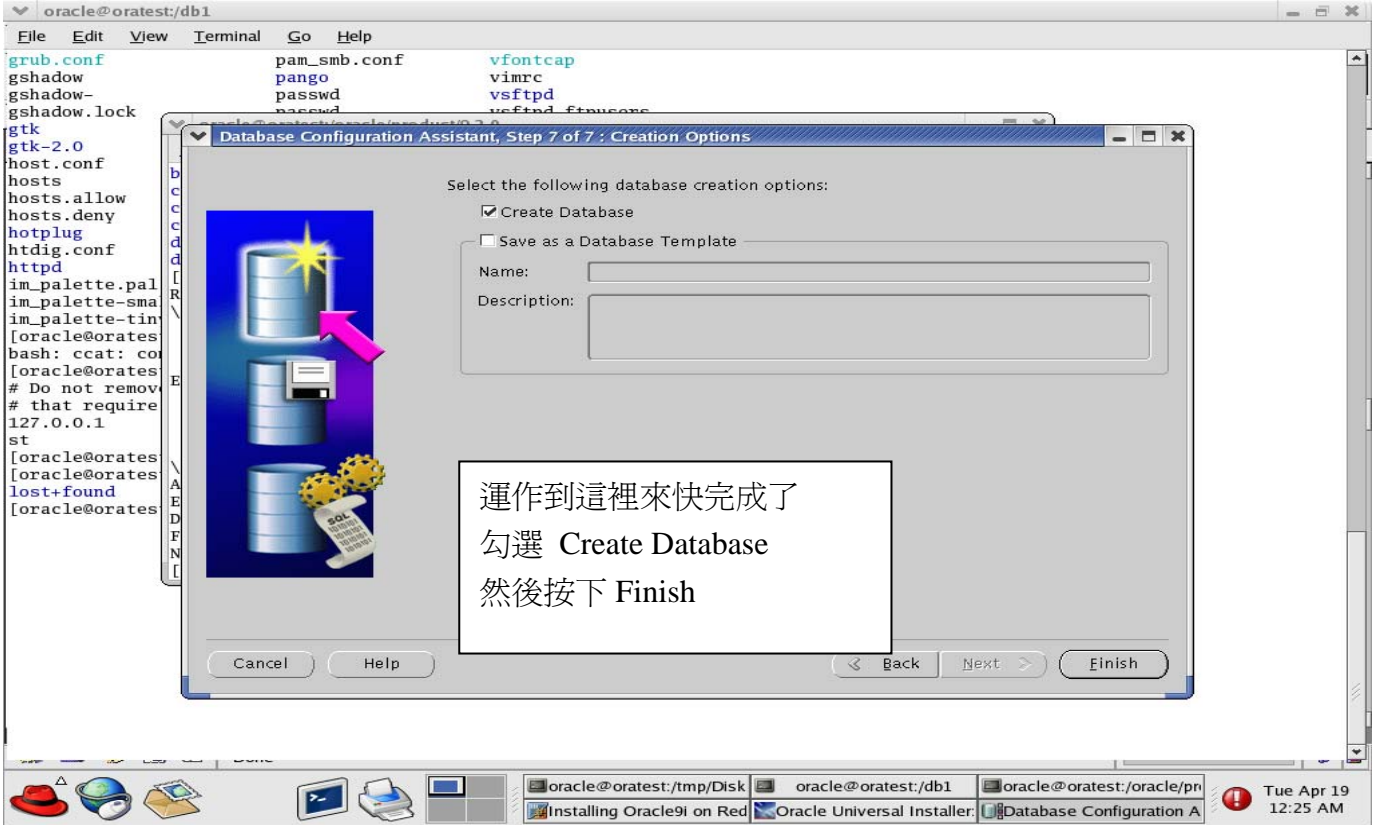
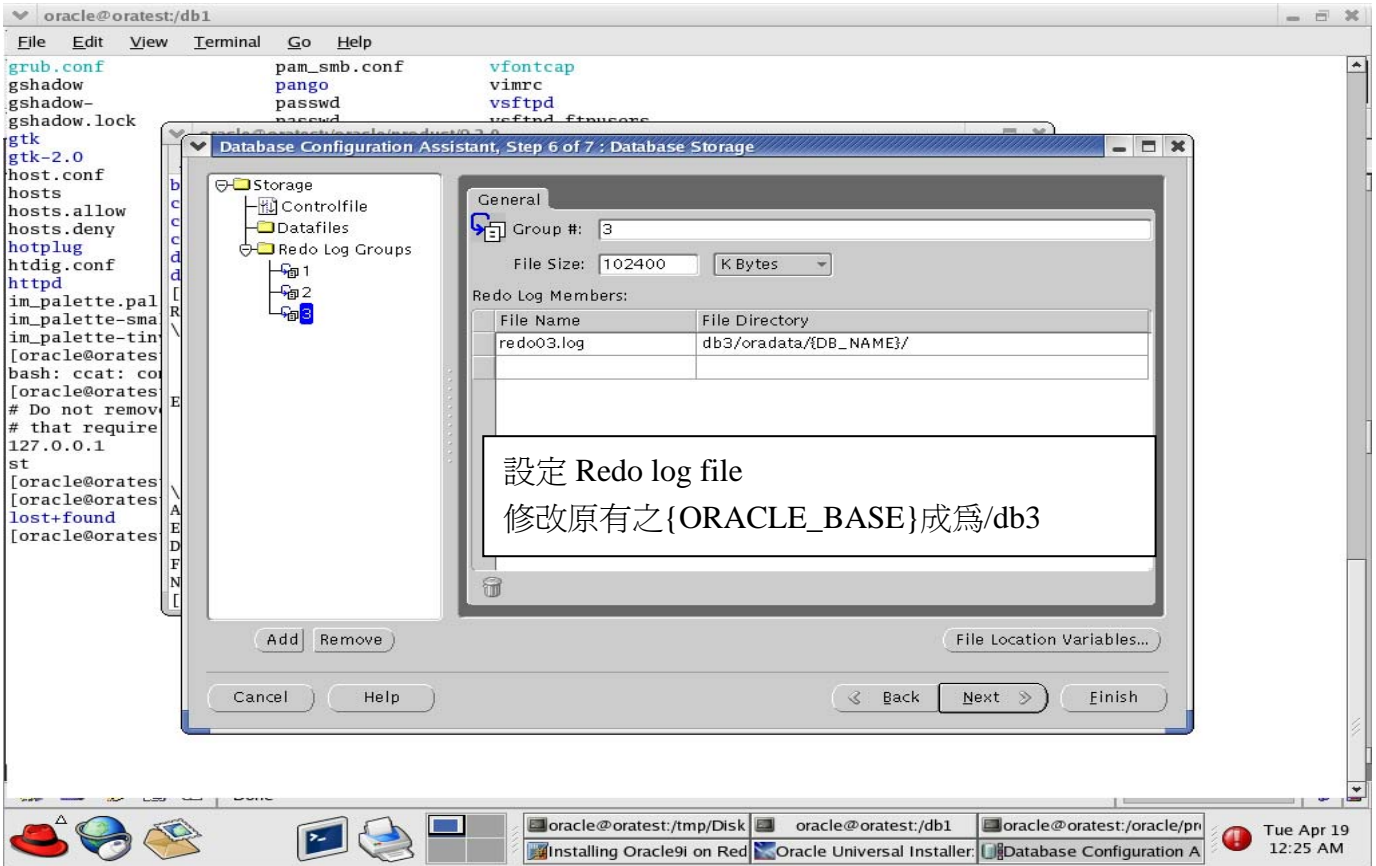
點選 All initialization parameters....會出現如下畫面，這是所有的參數設定，如果需要比較多的連線數請在下方所示 processes 修改至你需要的數值；預設是 150



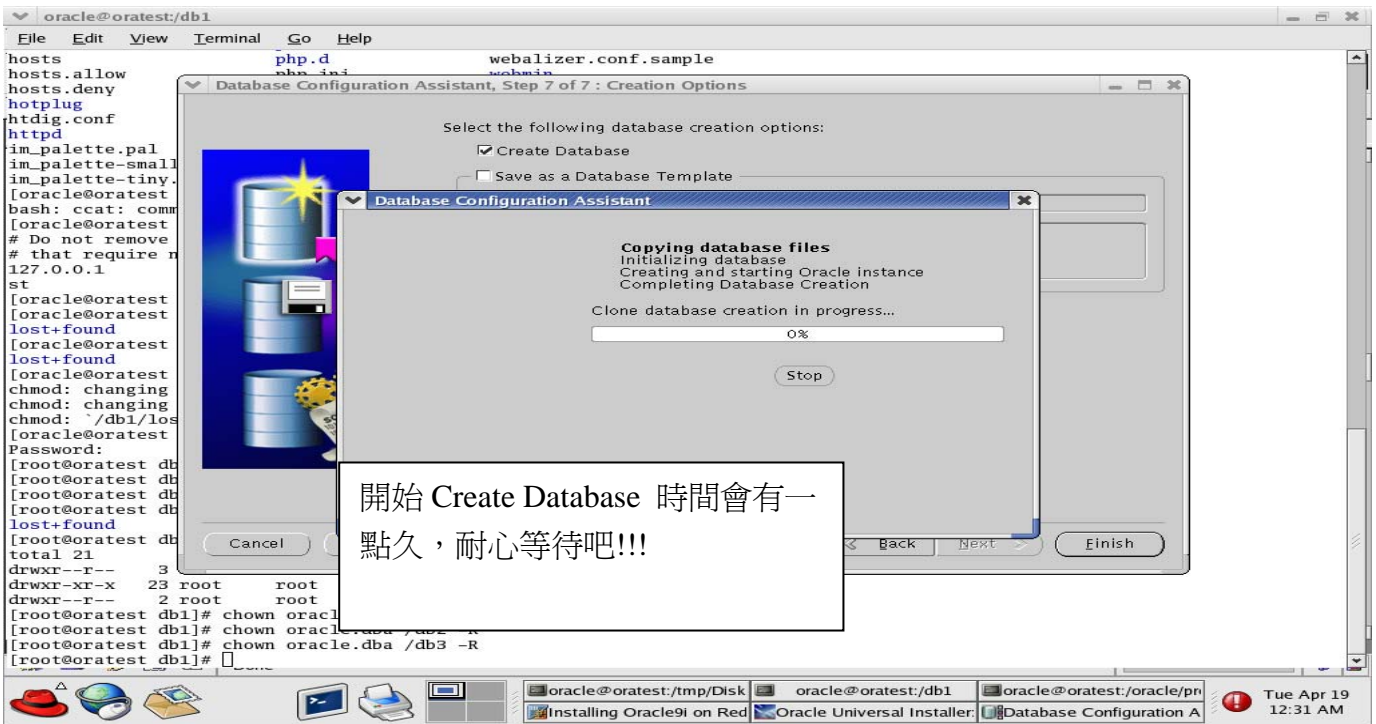
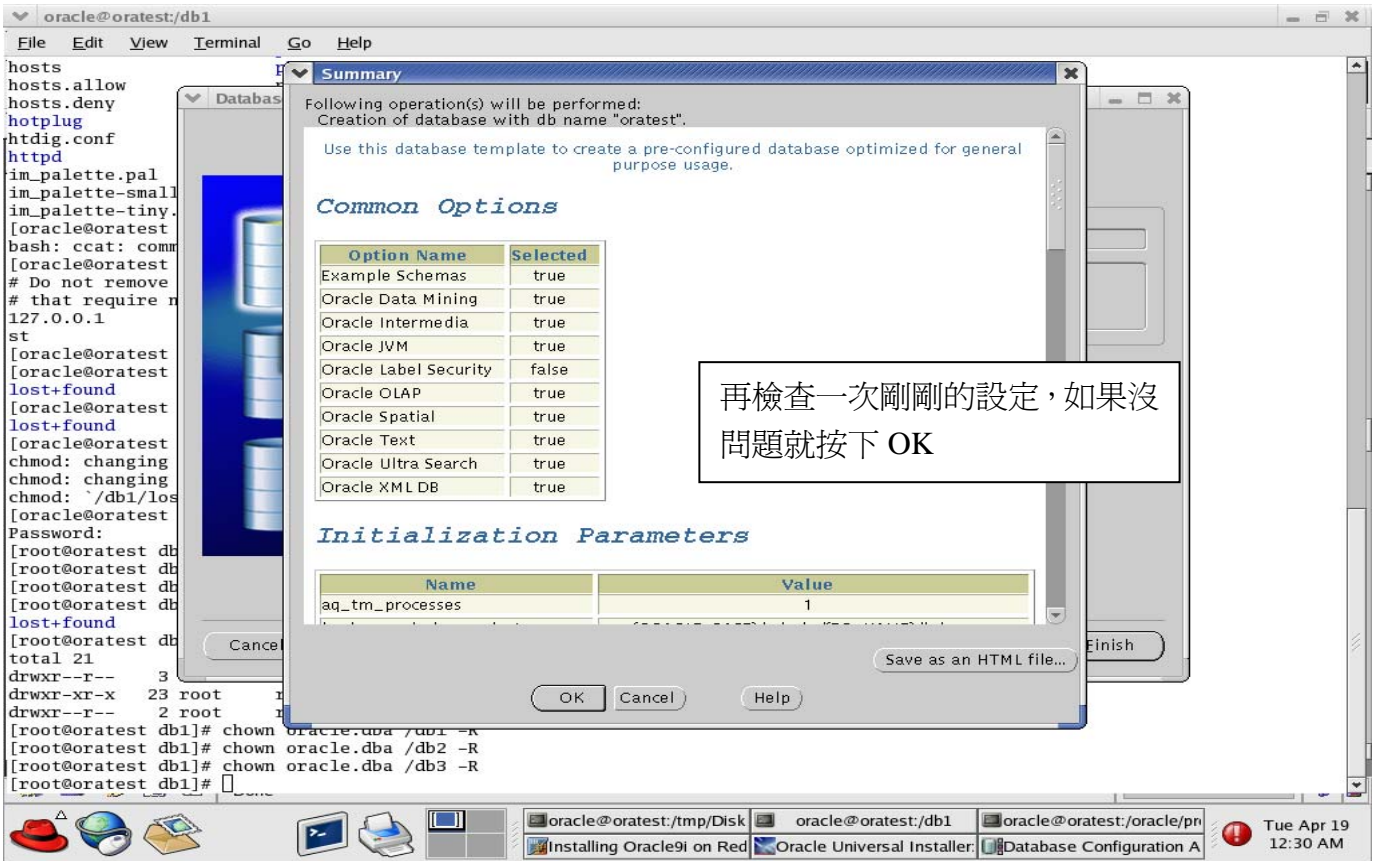












oracle@oratest:/db1

File Edit View Terminal Go Help

```

hosts
hosts.allow
hosts.deny
hotplug
htdig.conf
httpd
im_palette.pal
im_palette-small
im_palette-tiny.
[oracle@oratest ~]#
bash: cc: command not found
# Do not remove
# that require n
127.0.0.1
st
[oracle@oratest ~]#
[oracle@oratest ~]#
lost+found
[oracle@oratest ~]#
chmod: changing
chmod: changing
chmod: `~/db1/los
[oracle@oratest ~]#
Password:
[oracle@oratest ~]#
[oracle@oratest ~]#
[oracle@oratest ~]#
lost+found
[oracle@oratest ~]#
total 21
drwxr-xr-x
drwxr-xr-x
drwxr-xr-x
[oracle@oratest ~]#
[oracle@oratest ~]#
[oracle@oratest ~]#
[oracle@oratest ~]#

```

Database Configuration Assistant, Step 7 of 7 : Creation Options

Select the following database creation options:

**Database Configuration Assistant**

Database creation complete. Check the logfiles at /oracle/admin/oratest/create for details.

Database Information:  
 Global Database Name: oratest.vmy.idv.tw  
 System Identifier(SID): oratest  
 Server Parameters Filename: /oracle/product/9.2.0/dbs/spfileoratest.ora

Change Passwords

For security reasons, you must specify a password for the SYS and SYSTEM accounts in the new database.

SYS Password:   
 Confirm SYS Password:   
 SYSTEM Password:   
 Confirm SYSTEM Password:

Note: All database accounts except SYS, SYSTEM, DBSNMP, and SCOTT are locked. Select the Password Management button to view a complete list of locked accounts or to manage the database accounts. From the Password Management window, unlock only the accounts you will use. Oracle Corporation will not change the default passwords immediately after installation.

Buttons: Password Management..., Exit, Finish

輸入你要置換的密碼，如不修改則預設密碼

sys =change\_on\_install

system=manager

oracle@oratest:/tmp/Disk | oracle@oratest:/db1 | oracle@oratest:/oracle/pr | Tue Apr 19 12:44 AM

Installing Oracle9i on Red | Oracle Universal Installer | Database Configuration A

oracle@oratest:/db1

File Edit View Terminal Go Help

```

hosts
hosts.allow
hosts.deny
hotplug
htdig.conf
httpd
im_palette.pal
im_palette-small
im_palette-tiny.
[oracle@oratest ~]#
bash: cc: command not found
# Do not remove
# that require n
127.0.0.1
st
[oracle@oratest ~]#
[oracle@oratest ~]#
lost+found
[oracle@oratest ~]#
chmod: changing
chmod: changing
chmod: `~/db1/los
[oracle@oratest ~]#
Password:
[oracle@oratest ~]#
[oracle@oratest ~]#
[oracle@oratest ~]#
lost+found
[oracle@oratest ~]#
total 21
drwxr-xr-x 3 root root 4096 Apr 15 05:52
drwxr-xr-x 23 root root 1024 Apr 18 22:04
drwxr-xr-x 2 root root 16384 Apr 15 05:52 lost+found
[oracle@oratest ~]#
[oracle@oratest ~]#
[oracle@oratest ~]#
[oracle@oratest ~]#

```

Oracle Universal Installer: End of Installation

**End of Installation**

The installation of Oracle9i Database was successful, but some optional configuration tools failed or were canceled.

Please remember...

The following information is available in:  
 /oracle/product/9.2.0/Apache/Apache/setupinfo.txt

The HTTP Server can be accessed using the following URLs:

Non SSL Mode:  
 http://oratest:7777

SSL mode (executed at install time):  
 http://oratest:7778  
 https://oratest:4443

Buttons: Exit, Help, Installed Products..., Previous, Next Install

看到這畫面就完成你的安裝了

oracle@oratest:/tmp/Disk | oracle@oratest:/db1 | oracle@oratest:/oracle/pr | Tue Apr 19 12:46 AM

Installing Oracle9i on Red | Oracle Universal Installer: