环境：vi\_box

**[Oracle](http://lib.csdn.net/base/oracle" \o "Oracle知识库" \t "http://blog.csdn.net/weixin_38365121/article/details/_blank)** **[Linux](http://lib.csdn.net/base/linux" \o "Linux知识库" \t "http://blog.csdn.net/weixin_38365121/article/details/_blank)** 6.5

**[oracle](http://lib.csdn.net/base/oracle" \o "Oracle知识库" \t "http://blog.csdn.net/weixin_38365121/article/details/_blank)** 11g 11.2.0

前置任务：

root@rac01 ~]# service iptables stop  
[root@rac01 ~]# chkconfig iptables off  
[root@rac01 ~]# chkconfig iptables --list  
iptables 0:off 1:off 2:off 3:off 4:off 5:off 6:off  
   
chkconfig iptables off ---永久  
service iptables stop ---临时  
/etc/init.d/iptables status ----会得到一系列信息，说明防火墙开着。  
/etc/rc.d/init.d/iptables stop ----------关闭防火墙

--关闭NTP服务  
[root@node2 ~]# service ntpd stop    
Shutting down ntpd:                                        [FAILED]    
[root@node2 ~]# chkconfig ntpd off    
[root@node2 ~]# mv /etc/ntp.conf /etc/ntp.conf.original    
[root@node2 ~]# rm -rf /var/run/ntpd.pid    
  
--关闭内核防火墙  
vi /etc/sysconfig/selinux  
SELINUX=disabled

--添加主机解析

1.创建ORACLE用户和组成员

groupadd oinstall  
groupadd dba  
groupadd oper  
groupadd asmadmin  
groupadd asmdba  
groupadd asmoper

useradd -g oinstall -G dba,asmdba,oper -d /home/oracle oracle                  (命令自动创建/home/oracle目录)

useradd -g oinstall -G dba,asmadmin,asmdba,asmoper -d /home/grid grid   (命令自动创建/home/grid目录)

2.分别创建oracle、grid用户的密码  
passwd oracle  
new unix password: oracle123

passwd grid

new unix password: grid123

//创建以下目录  
mkdir -p /u01/app/11.2.0/grid  
mkdir -p /u01/app/grid  
mkdir -p /u01/app/oracle/product/11.2.0/db\_1  
mkdir -p /u02/arch  
chown -R grid:oinstall /u01  
chown -R oracle:oinstall /u01/app/oracle  
chown -R oracle:oinstall /u02  
chmod -R 775 /u01

chmod -R 775 /u02

4.使用oracle用户登陆，设置oracle用户的环境变量

//增加以下几行

[oracle@ctp-dbserver ~]$ vim .bash\_profile

ORACLE\_BASE=/u01/app/oracle  
ORACLE\_HOME=$ORACLE\_BASE/product/11.2.0/db\_1  
ORACLE\_SID=orcl  
PATH=$PATH:$ORACLE\_HOME/bin:$HOME/bin  
LD\_LIBRARY\_PATH=$ORACLE\_HOME/lib  
export ORACLE\_BASE ORACLE\_HOME ORACLE\_SID PATH LD\_LIBRARY\_PATH  
export NLS\_LANG=AMERICAN\_AMERICA.UTF8

umask 022

5.使用grid域名登陆，设置grid用户的环境变量  
//增加以下几行  
[grid@ctp-dbserver ~]$ vim .bash\_profile

export PATH  
export ORACLE\_BASE=/u01/app/grid  
export ORACLE\_HOME=/u01/app/11.2.0/grid  
export LD\_LIBRARY\_PATH=$ORACLE\_HOME/lib  
export NLS\_LANG=American\_america.ZHS16GBK  
export PATH=$PATH:$ORACLE\_HOME/bin:$HOME/bin  
export ORACLE\_SID=+ASM

6.将必要的**安装**文件上传至服务器  
如:  
//oracle用户**安装**软件 ，存放/u02下

linux\_11gR2\_database\_1of2       （11.2.0.1）

linux\_11gR2\_database\_2of2        （11.2.0.1）

linux\_11gR2\_grid                         （11.2.0.1）

或者

p10404530\_112030\_Linux-x86-64\_1of7.zip  （11.2.0.3）

p10404530\_112030\_Linux-x86-64\_2of7.zip   （11.2.0.3）

p10404530\_112030\_Linux-x86-64\_3of7.zip    （11.2.0.3）

--挂载光盘  
cd /etc/yum.repos.d/  
mv public-yum-ol6.repo public-yum-ol6.repo\_bak  
vi /etc/yum.repos.d/dvd.repo  
  
vi /etc/yum.repos.d/dvd.repo  
[dvd]  
name=dvd  
baseurl=file:///media/"OL6.5 x86\_64 Disc 1 20131125"/

gpgcheck=0  
enabled=1

--检查YUM配置  
yum clean all  
yum makecache  
yum install oracle-rdbms-server-11gR2-preinstall-1.0-7.el6

--配置共享存储

for i in b c d e f g;  
do  
echo "KERNEL==\"sd\*\", BUS==\"scsi\", PROGRAM==\"/sbin/scsi\_id --whitelisted --replace-whitespace --device=/dev/\$name\", RESULT==\"`/sbin/scsi\_id --whitelisted --replace-whitespace --device=/dev/sd$i`\", NAME=\"asm-disk$i\", OWNER=\"grid\", GROUP=\"asmadmin\", MODE=\"0660\""      >> /etc/udev/rules.d/99-oracle-asmdevices.rules  
done

cat /etc/udev/rules.d/99-oracle-asmdevices.rules

/sbin/start\_udev

[root@racnod1 dev]# ls -l asm\*  
brw-rw---- 1 grid asmadmin 8, 16 Mar  2 10:43 asm-diskb  
brw-rw---- 1 grid asmadmin 8, 32 Mar  2 10:43 asm-diskc  
brw-rw---- 1 grid asmadmin 8, 48 Mar  2 10:43 asm-diskd  
brw-rw---- 1 grid asmadmin 8, 64 Mar  2 10:43 asm-diske  
brw-rw---- 1 grid asmadmin 8, 80 Mar  2 10:43 asm-diskf  
brw-rw---- 1 grid asmadmin 8, 96 Mar  2 10:43 asm-diskg

--安装grid

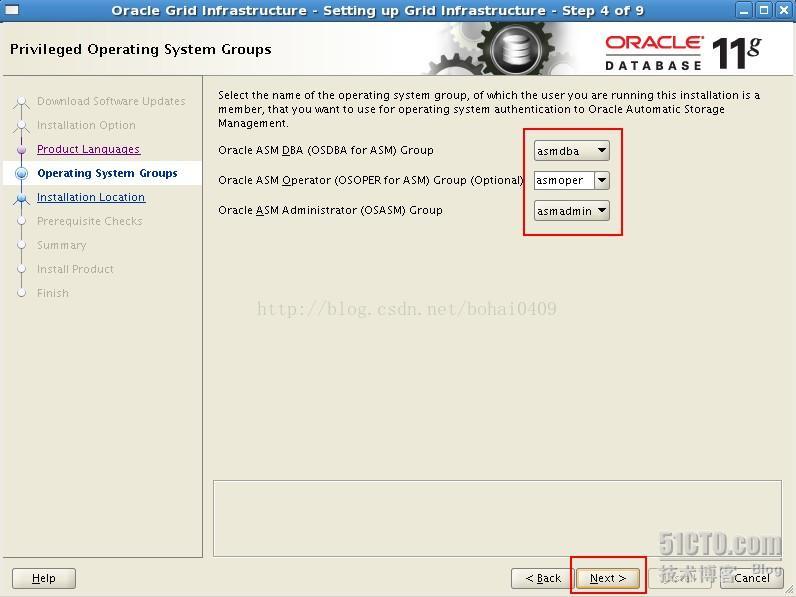
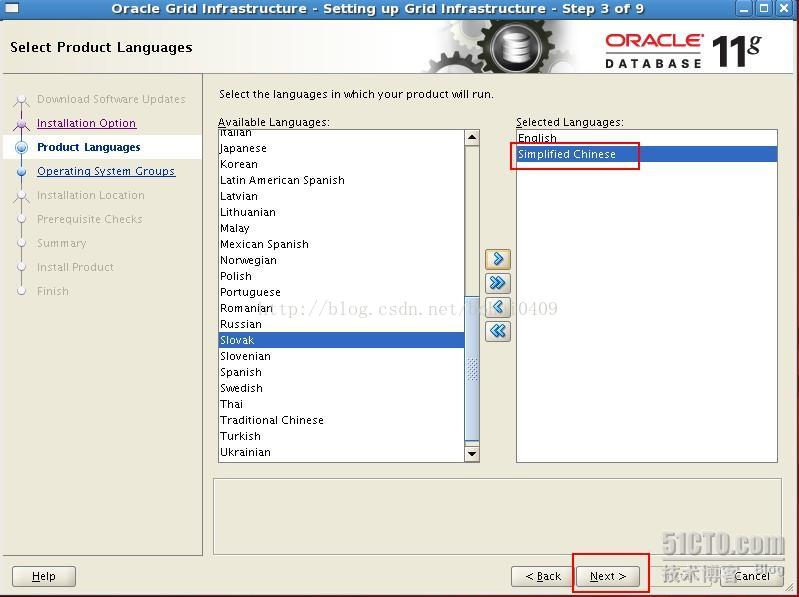
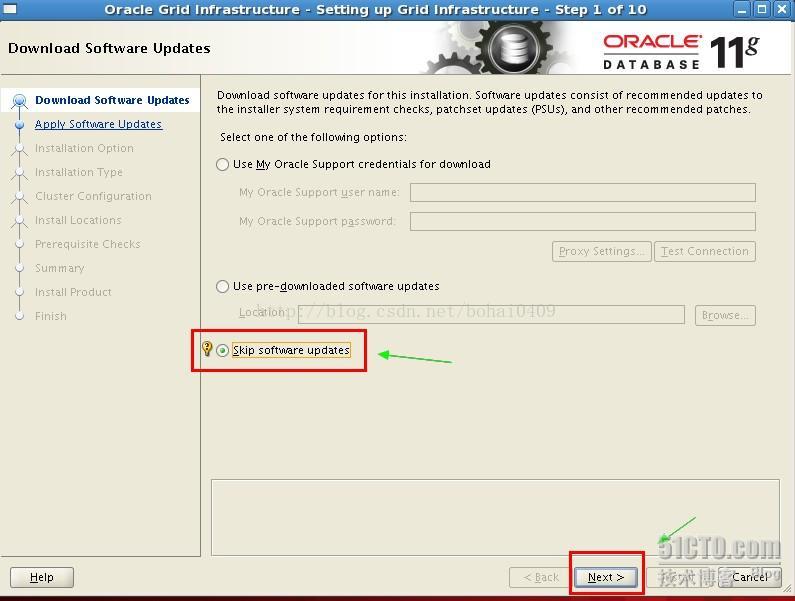
[root@12cnod01 package]# cp linuxx64\_12201\_grid\_home.zip /home/grid

[root@12cnod01 package]# cp linuxx64\_12201\_database.zip /home/oracle

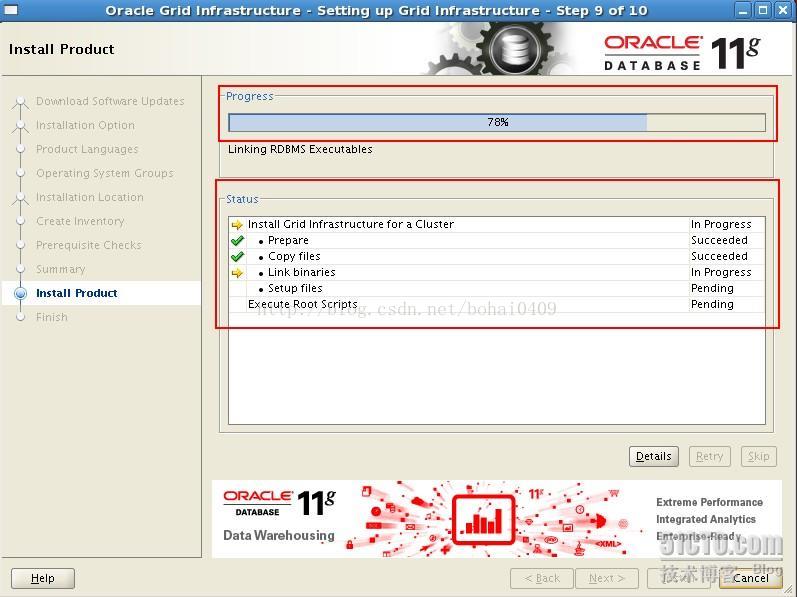
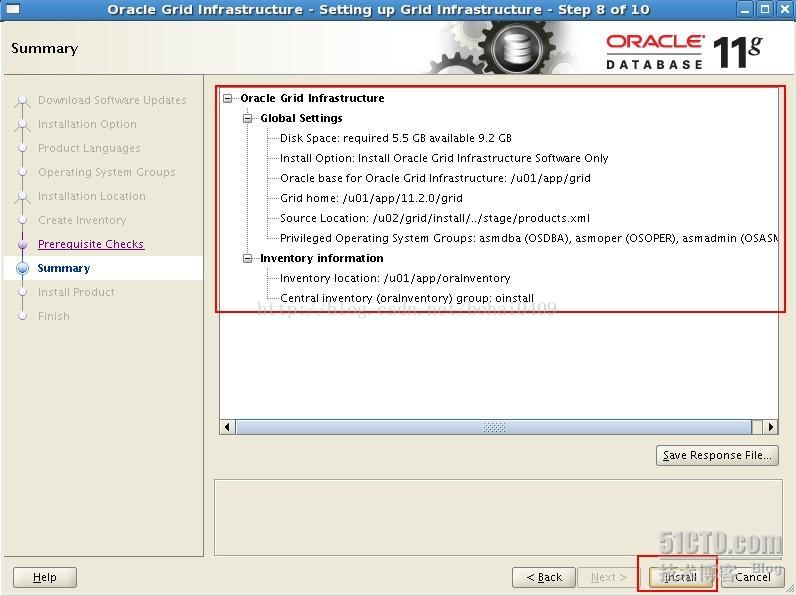
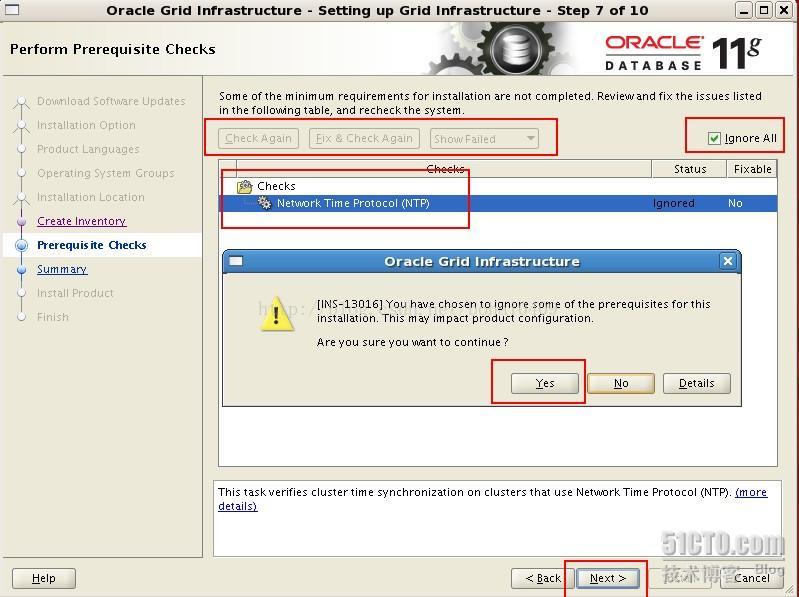
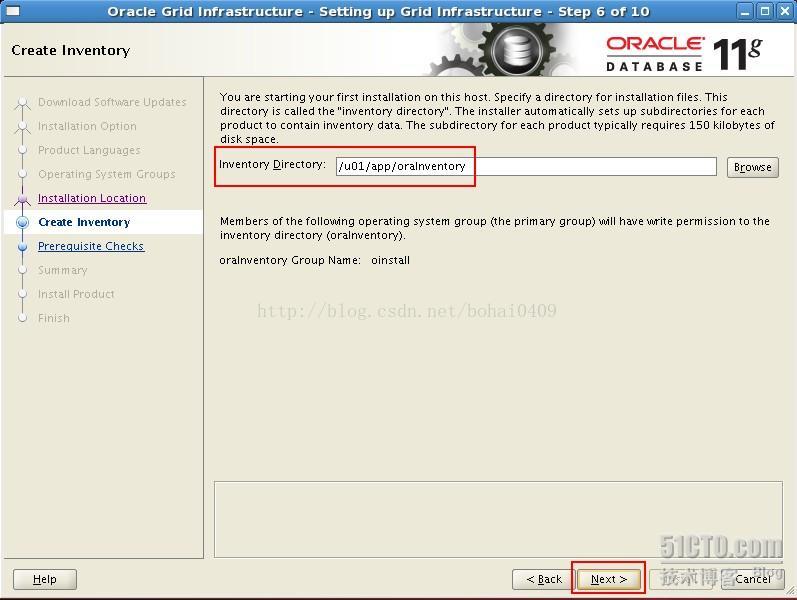
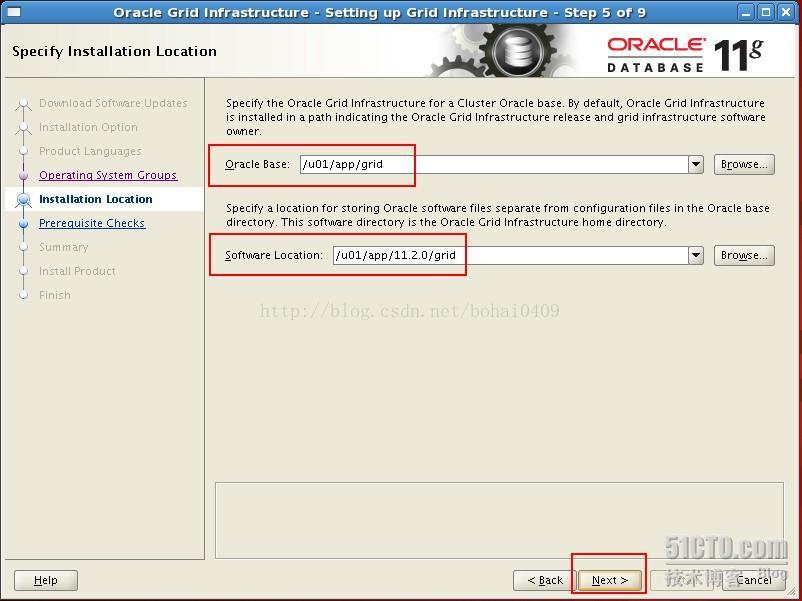
[grid@bj u02]$ unzip linux\_11gR2\_grid.zip

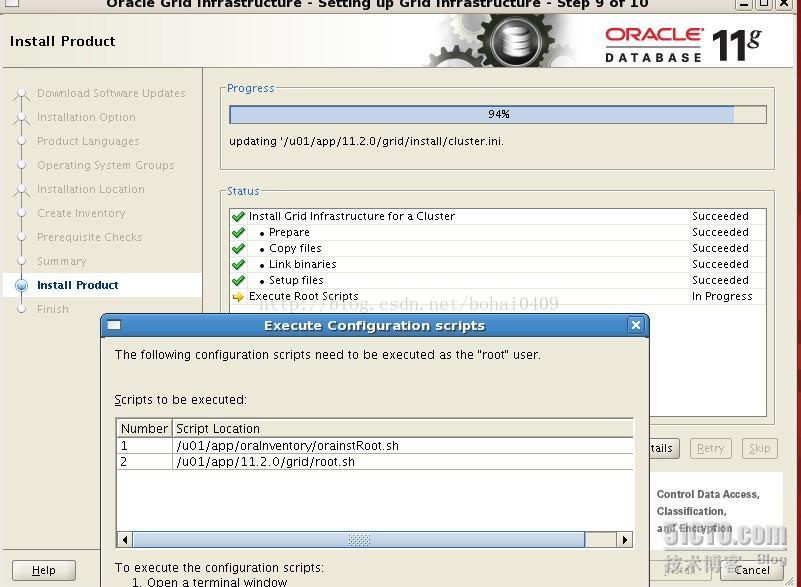
[grid@bj u02]$ cd grid/

[grid@bj grid]$ ./runInstaller

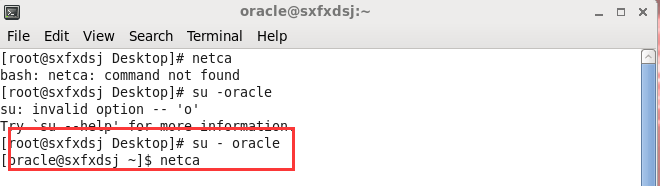


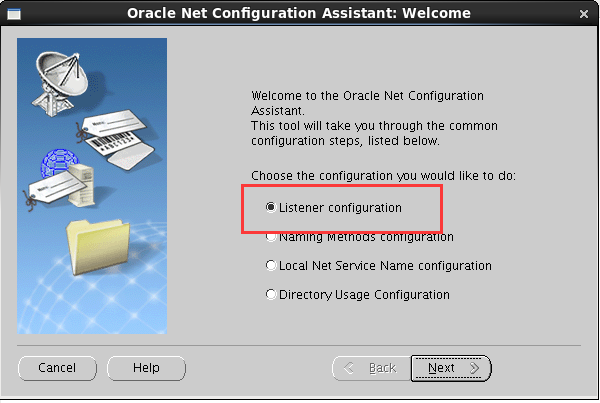
--根据提示创建ASM磁盘组



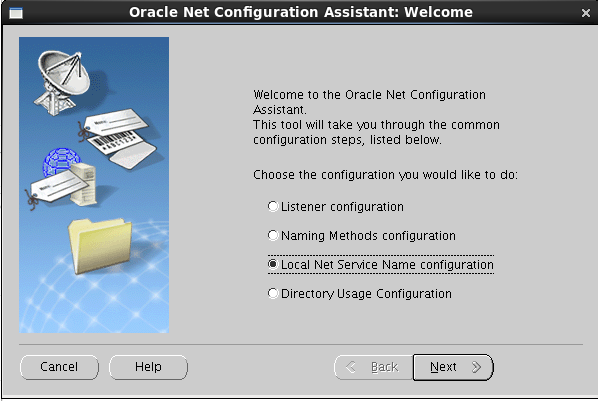


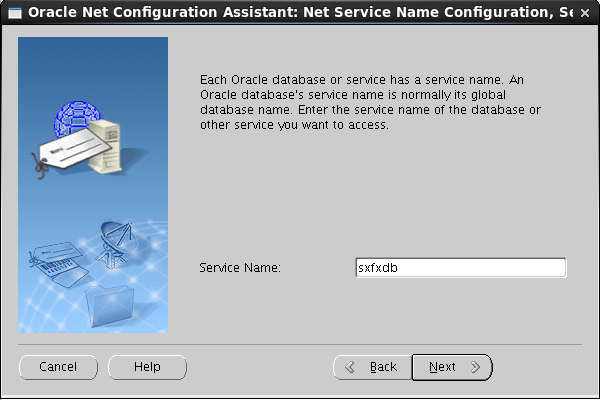
1. Netca创建监听及TNS



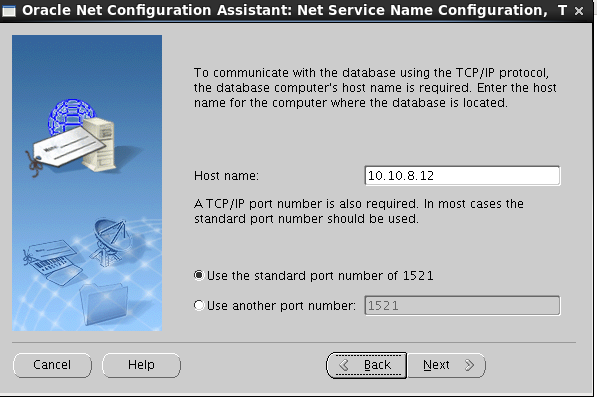


建立TNS





填写实例名



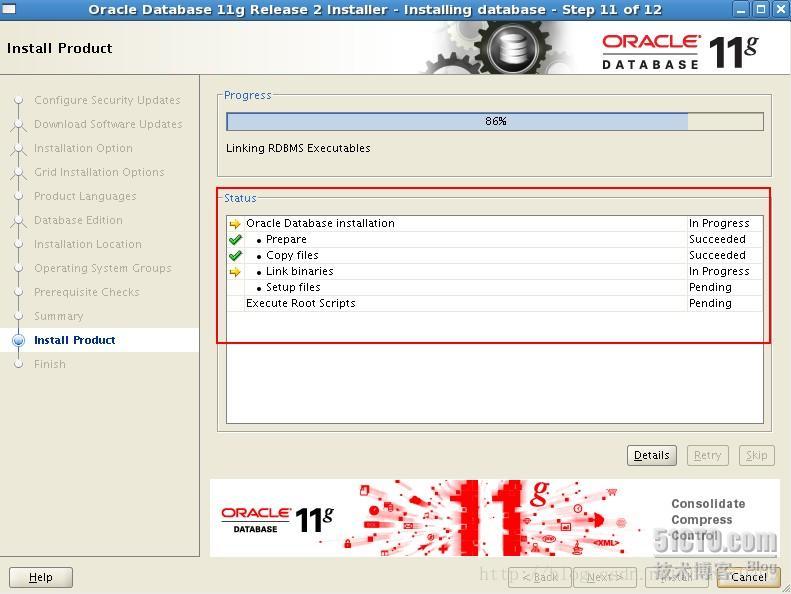
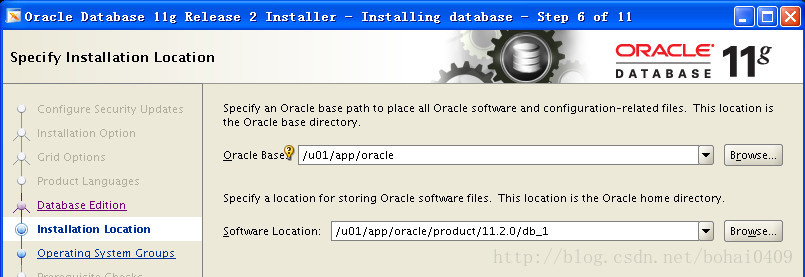
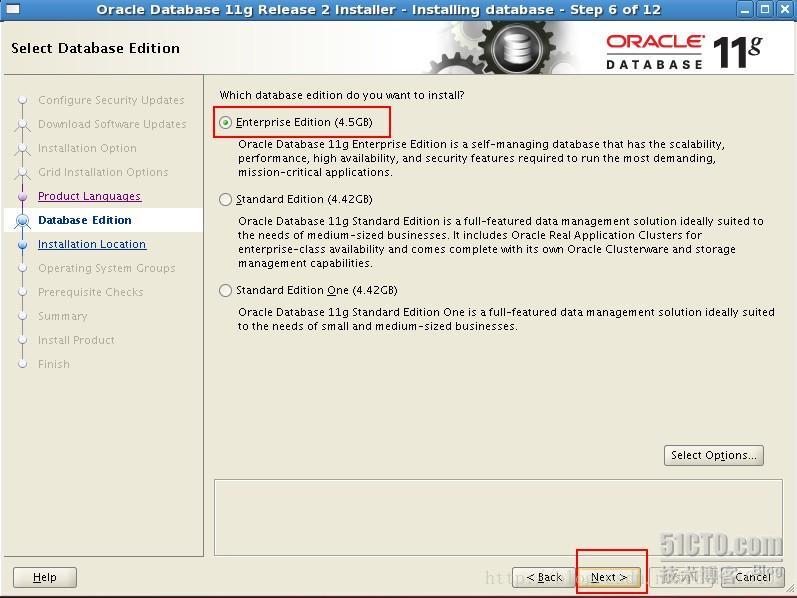
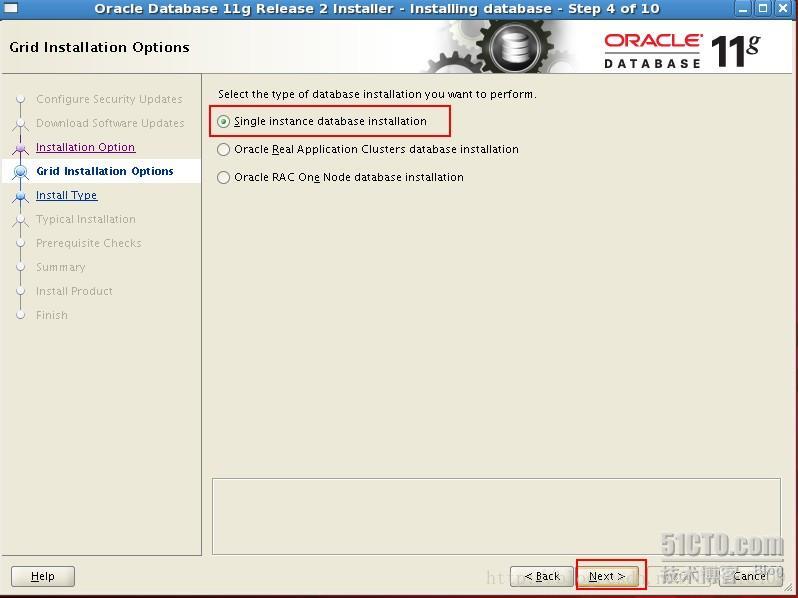
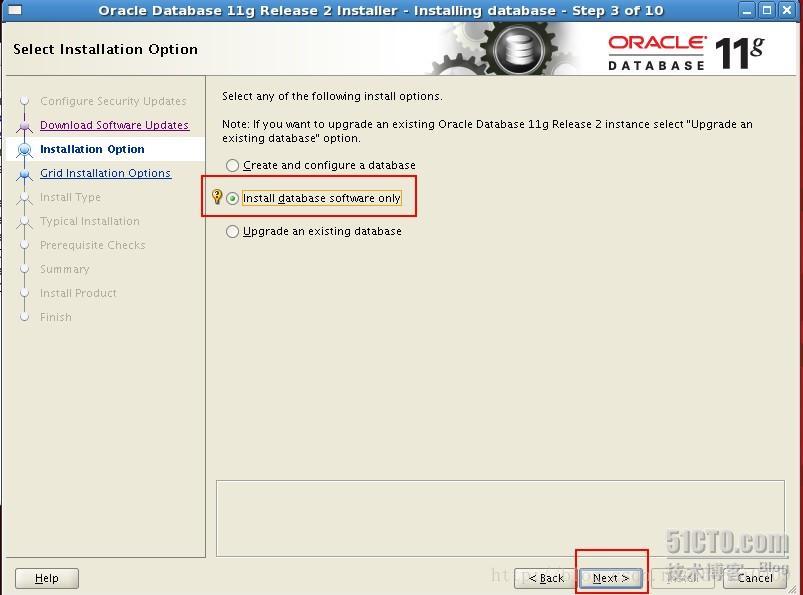
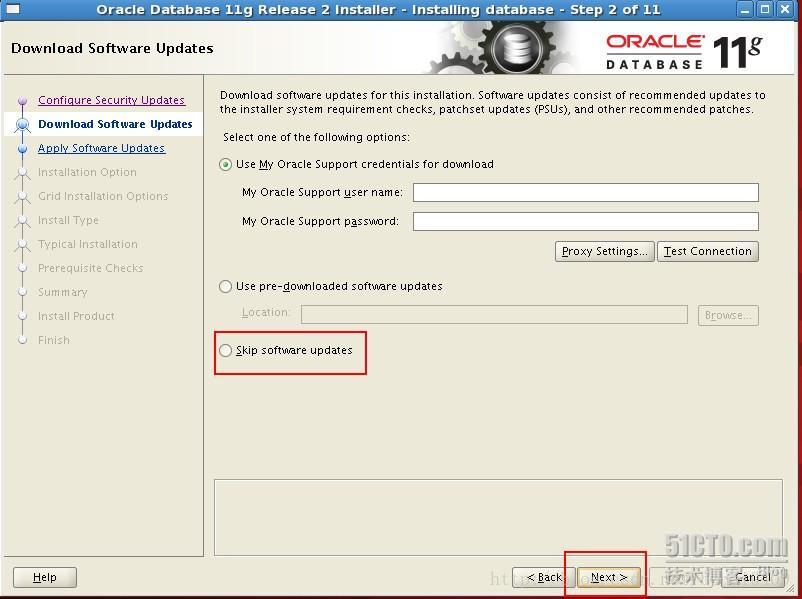
7，安装oracle软件

[oracle@bj u02]$ su - oracle

[oracle@bj u02]$ unzip linux\_11gR2\_database\_1of2.zip

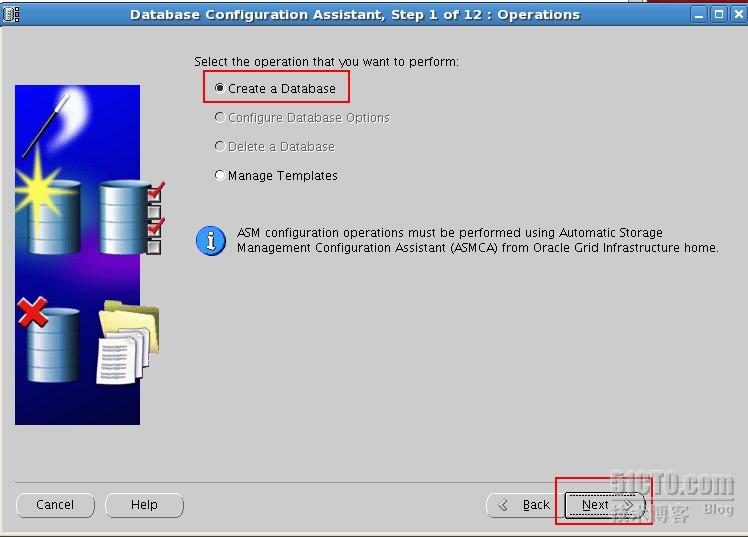
[oracle@bj u02]$ unzip linux\_11gR2\_database\_2of2.zip

[oracle@bj database]$ ./runInstaller



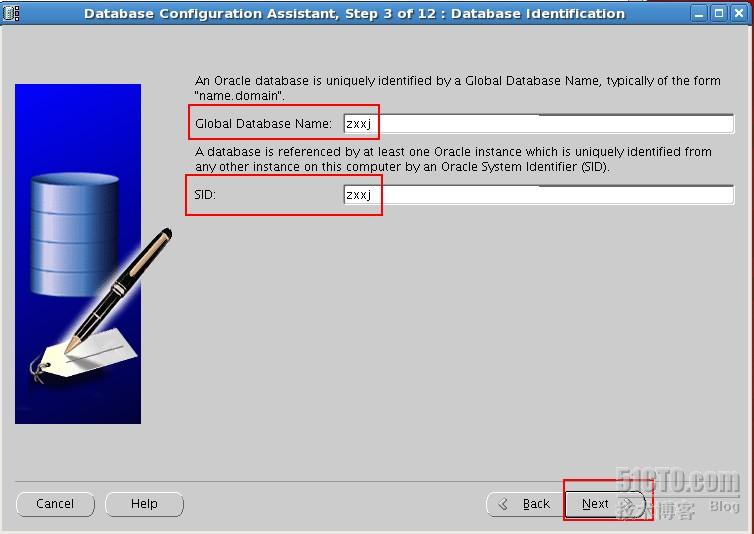
**DBCA建库**

**[oracle@bj bin]$ /u01/app/oracle/product/11.2.0/db\_1/bin/dbca**

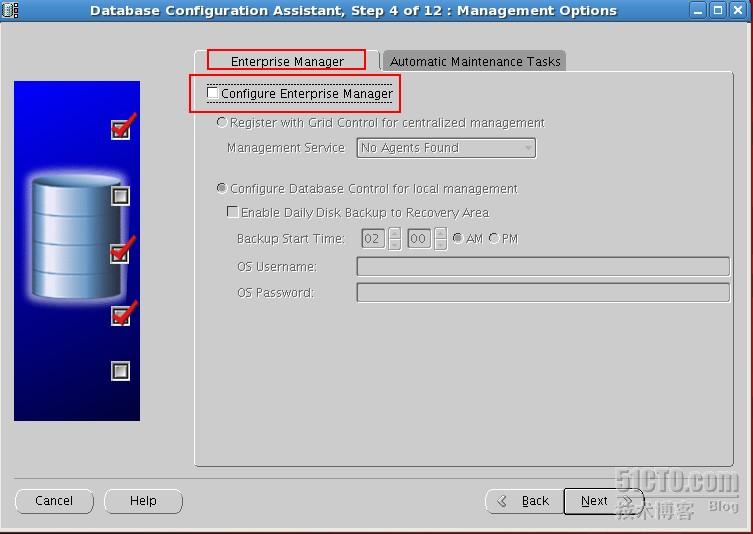


Operations：选择“创建一个数据库”

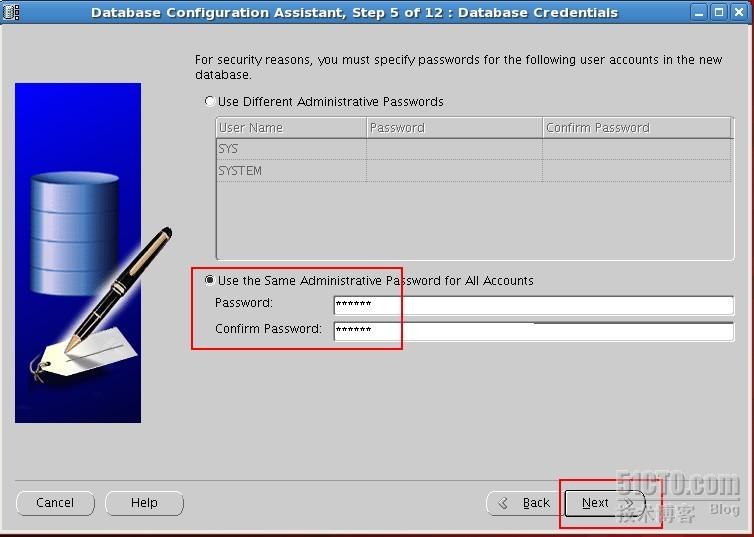
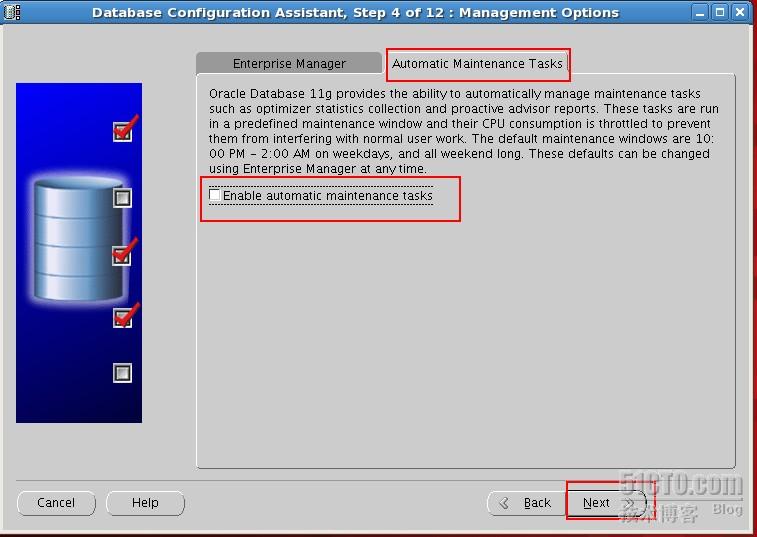
数据库模版 ：定制



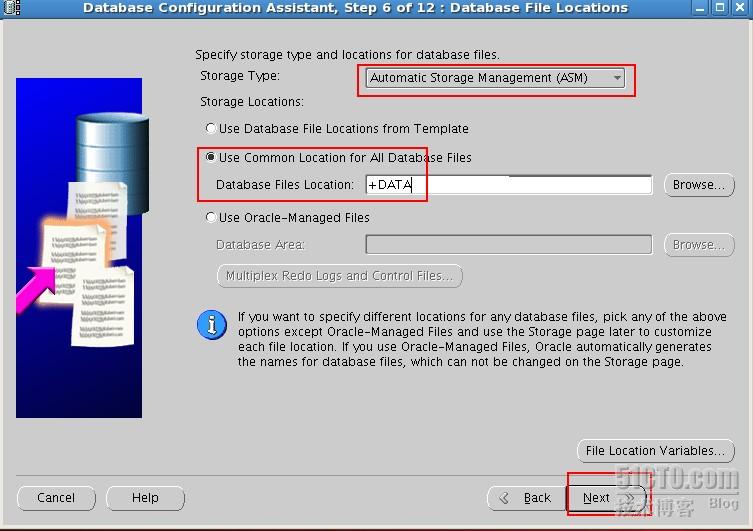
数据库标识：全局数据库名 orcl  
                     SID前缀：   orcl



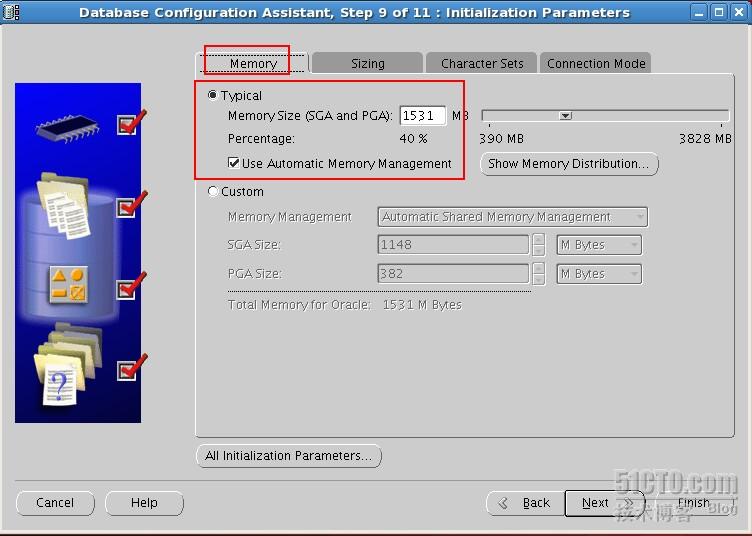
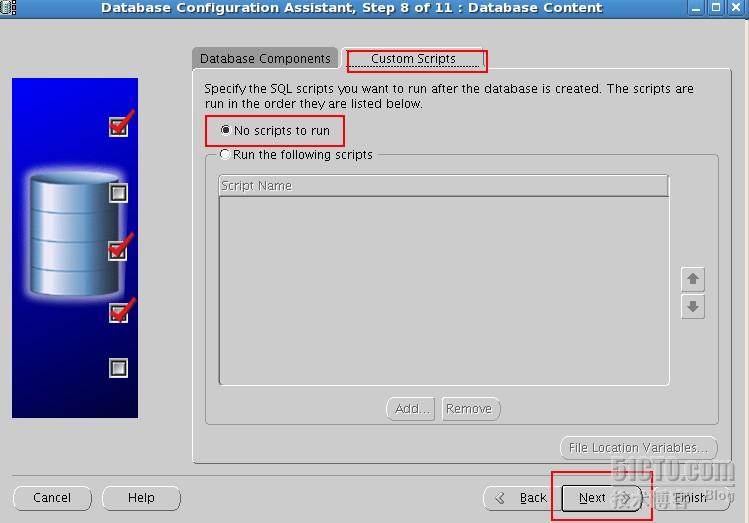
管理选项  去除“使用E M配置数据库”前面的勾  
             去除“自动维护任务”前面的勾



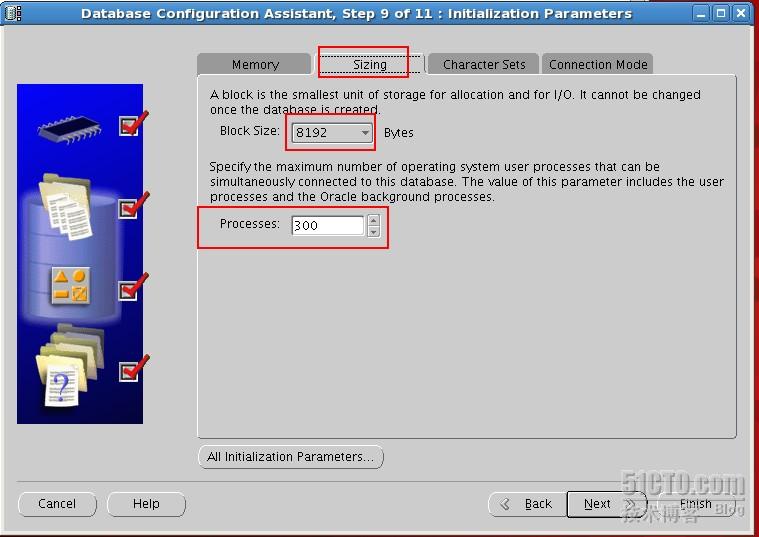
数据库身份证明， 所有账户使用同一口令 ，输入口令oracle 两次



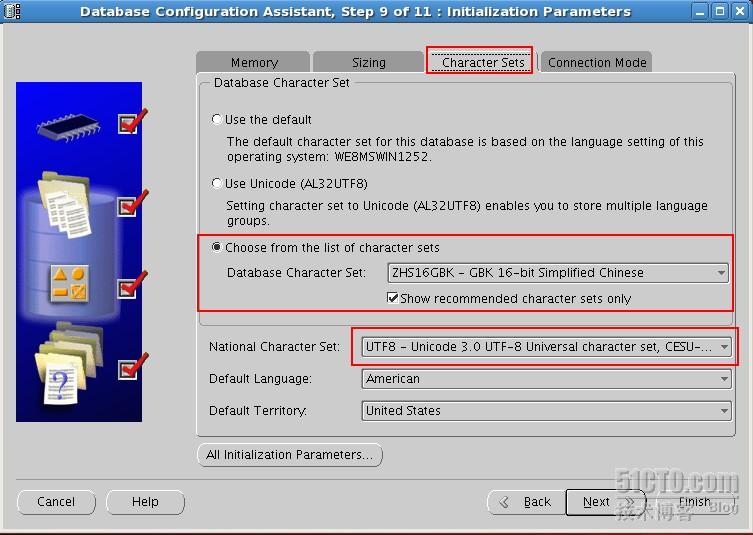
存储类型Sotrage Type : Automatic  Storage Management（ASM）  
存储LOCATION     选择Use Common Location for All Database fILES  
                     Database Files location +DATA



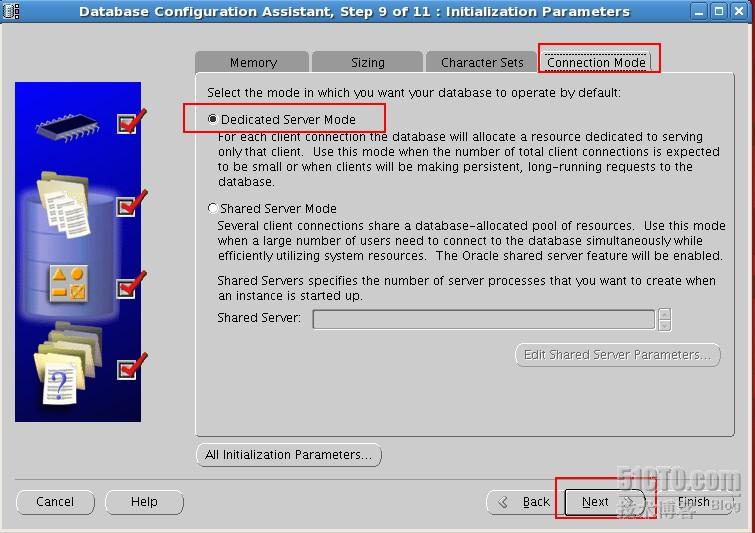
初始化参数   内存：选择典型，百分比为40%  ，使用自动内存管理。



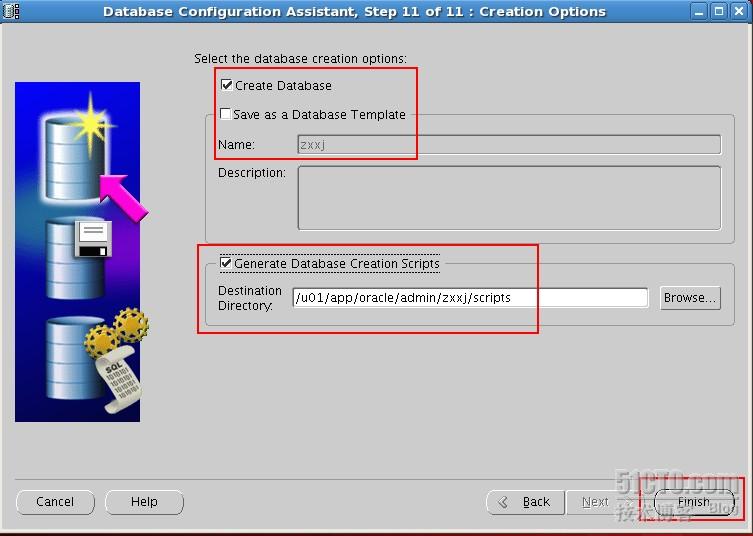
  调整大小。BLOCKK SIZE 8192 ,进程选择300



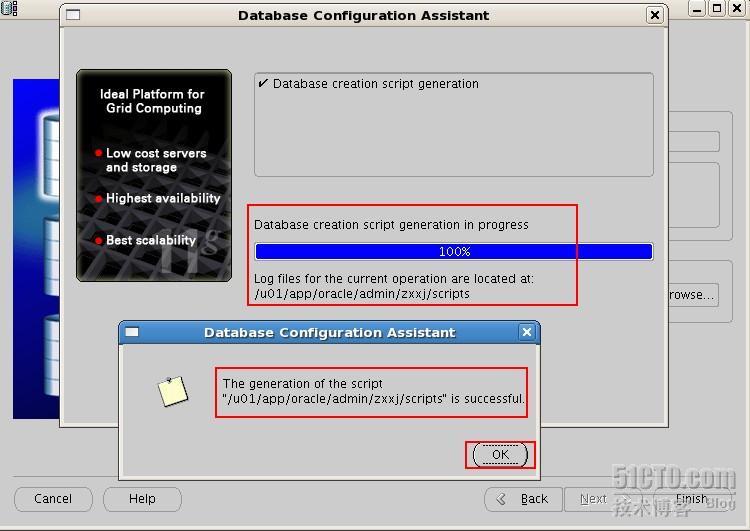
字符集  数据库字符集选择ZHS16GBK 国家字符集选择AL16UTF16

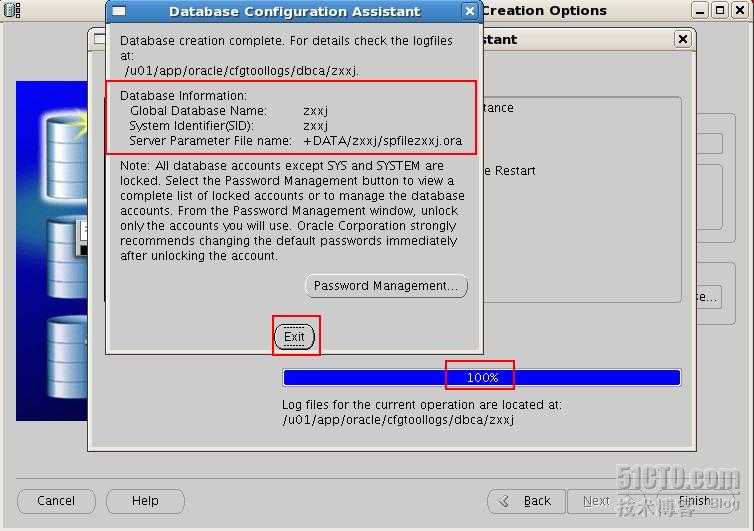


连接模式，选择专用服务器模式



创建选项   创建数据库选项，创建脚本选项，并单击 完成 以启动数据库创建过程





--oracleasm 组件说明

1.**安装**oracleasm  
//说明：asm组件的**安装**需要3个asm--rpm包的支持，oracleasm rpm需要和linux 系统的内核对应

查看linux系统内核：

#uname -rm

2.6.18-92.el5  i686

oracleasm 包要求：

oracleasm-2.6.18-92.el5-2.0.5-1.el5.i686.rpm        //此包必须和linux kernel 一致  
oracleasmlib-2.0.4-1.el5.i386.rpm                        //此包根据要官网说明  
oracleasm-support-2.1.8-1.el5.i386.rpm             //此包根据要官网说明

[root@薄刀刀 ~]# rpm -ivh \*.rpm

warning: oracleasm-2.6.18-194.el5-2.0.5-1.el5.x86\_64.rpm: Header V3 DSA signature: NOKEY, key ID 1e5e0159  
Preparing...                ########################################### [100%]  
   1:oracleasm-support      ########################################### [ 33%]  
   2:oracleasm-2.6.18-194.el########################################### [ 67%]

   3:oracleasmlib           ########################################### [100%]

//参考：下载地址

http://www.oracle.com/technetwork/server-storage/linux/downloads/rhel5-084877.html

### Oracle ASMLib 2.0

#### Intel IA32 (x86) Architecture

##### Library and Tools

* [oracleasm-support-2.1.8-1.el5.i386.rpm](http://oss.oracle.com/projects/oracleasm-support/dist/files/RPMS/rhel5/x86/2.1.8/oracleasm-support-2.1.8-1.el5.i386.rpm" \t "http://blog.csdn.net/weixin_38365121/article/details/_blank)
* [oracleasmlib-2.0.4-1.el5.i386.rpm](http://download.oracle.com/otn_software/asmlib/oracleasmlib-2.0.4-1.el5.i386.rpm" \t "http://blog.csdn.net/weixin_38365121/article/details/_blank)

##### Drivers for kernel 2.6.18-92.el5

* [oracleasm-2.6.18-92.el5xen-2.0.5-1.el5.i686.rpm](http://oss.oracle.com/projects/oracleasm/dist/files/RPMS/rhel5/x86/2.0.5/2.6.18-92.el5/oracleasm-2.6.18-92.el5xen-2.0.5-1.el5.i686.rpm" \t "http://blog.csdn.net/weixin_38365121/article/details/_blank)
* [oracleasm-2.6.18-92.el5debug-2.0.5-1.el5.i686.rpm](http://oss.oracle.com/projects/oracleasm/dist/files/RPMS/rhel5/x86/2.0.5/2.6.18-92.el5/oracleasm-2.6.18-92.el5debug-2.0.5-1.el5.i686.rpm" \t "http://blog.csdn.net/weixin_38365121/article/details/_blank)
* [oracleasm-2.6.18-92.el5PAE-2.0.5-1.el5.i686.rpm](http://oss.oracle.com/projects/oracleasm/dist/files/RPMS/rhel5/x86/2.0.5/2.6.18-92.el5/oracleasm-2.6.18-92.el5PAE-2.0.5-1.el5.i686.rpm" \t "http://blog.csdn.net/weixin_38365121/article/details/_blank)
* [oracleasm-2.6.18-92.el5-debuginfo-2.0.5-1.el5.i686.rpm](http://oss.oracle.com/projects/oracleasm/dist/files/RPMS/rhel5/x86/2.0.5/2.6.18-92.el5/oracleasm-2.6.18-92.el5-debuginfo-2.0.5-1.el5.i686.rpm" \t "http://blog.csdn.net/weixin_38365121/article/details/_blank)
* [oracleasm-2.6.18-92.el5-2.0.5-1.el5.i686.rpm](http://oss.oracle.com/projects/oracleasm/dist/files/RPMS/rhel5/x86/2.0.5/2.6.18-92.el5/oracleasm-2.6.18-92.el5-2.0.5-1.el5.i686.rpm" \t "http://blog.csdn.net/weixin_38365121/article/details/_blank)