



安能聚创

ANE-Oracle 数据库安装作业标准（单实例）

文档信息

文档编号:		文档名称:	ANE-Oracle 数据库安装作业标准（单实例）
文档说明			
编 撰:		编撰日期:	2016-7-16
审 核:		审核日期:	

文档修改记录

版本号	版本发布日	变更说明	编写者	审核者
1.0	2016-7-16	建立文档初稿	李家林	

目 录

前言4

1 文档简介4

2 适用范围4

3 ORACLE 数据库软件安装过程5

 3.1 安装准备5

 3.2 执行安装8

 3.3 安装完成18

前言

1 文档简介

本文档详细描述了 Oracle 数据库安装过程（单实例），旨在加强规范单实例数据库软件安装标准，形成标准作业化作业文档，以便于日后查阅和使用。

2 适用范围

该文档适用于 ANE 系统 Oracle 11g 数据库软件实施部署。

3 Oracle 数据库软件安装过程

3.1 安装准备

■ 修改主机名

```
# vi /etc/sysconfig/network
NETWORKING=yes
HOSTNAME=dbtest5
```

■ 主机名解析

```
# vi /etc/hosts
127.0.0.1    localhost localhost.localdomain localhost4 localhost4.localdomain4
::1         localhost localhost.localdomain localhost6 localhost6.localdomain6

10.113.128.66 dbtest5
```

■ 修改系统参数

```
# vi /etc/sysctl.conf
fs.suid_dumpable = 1
fs.aio-max-nr = 1048576
fs.file-max = 6815744
kernel.shmall = 2097152
kernel.shmmax = 4128045056
kernel.shmmni = 4096
kernel.sem = 250 32000 100 128
net.ipv4.ip_local_port_range = 9000 65500
net.core.rmem_default = 262144
net.core.rmem_max = 4194304
net.core.wmem_default = 262144
net.core.wmem_max = 1048586

# sysctl -p

# vi /etc/security/limits.conf
oracle          soft    nproc    16384
```

```
oracle          hard    nproc    16384
oracle          soft    nofile   4096
oracle          hard    nofile   65536
oracle          soft    stack    10240

# vi /etc/security/limits.d/90-nproc.conf
把*          soft    nproc    1024 修改为* - nproc 16384

# vi /etc/selinux/config
SELINUX=permissive
```

■ 安装软件依赖包

```
# cd /media/cdrom/Server/Packages
# rpm -Uvh binutils-2*x86_64*
# rpm -Uvh glibc-2*x86_64* nss-softokn-freebl-3*x86_64*
# rpm -Uvh glibc-2*i686* nss-softokn-freebl-3*i686*
# rpm -Uvh compat-libstdc++-33*x86_64*
# rpm -Uvh glibc-common-2*x86_64*
# rpm -Uvh glibc-devel-2*x86_64*
# rpm -Uvh glibc-devel-2*i686*
# rpm -Uvh glibc-headers-2*x86_64*
# rpm -Uvh elfutils-libelf-0*x86_64*
# rpm -Uvh elfutils-libelf-devel-0*x86_64*
# rpm -Uvh gcc-4*x86_64*
# rpm -Uvh gcc-c++-4*x86_64*
# rpm -Uvh ksh-*x86_64*
# rpm -Uvh libaio-0*x86_64*
# rpm -Uvh libaio-devel-0*x86_64*
# rpm -Uvh libaio-0*i686*
# rpm -Uvh libaio-devel-0*i686*
# rpm -Uvh libgcc-4*x86_64*
# rpm -Uvh libgcc-4*i686*
# rpm -Uvh libstdc++-4*x86_64*
# rpm -Uvh libstdc++-4*i686*
```

```
# rpm -Uvh libstdc++-devel-4*x86_64*
# rpm -Uvh make-3.81*x86_64*
# rpm -Uvh numactl-devel-2*x86_64*
# rpm -Uvh sysstat-9*x86_64*
# rpm -Uvh compat-libstdc++-33*i686*
# rpm -Uvh compat-libcap*
```

■ 创建用户和组

```
# groupadd -g 501 oinstall
# groupadd -g 502 dba
# groupadd -g 503 oper
# groupadd -g 504 asmadmin
# groupadd -g 506 asmdba
# groupadd -g 505 asmoper
# useradd -u 502 -g oinstall -G dba,asmdba,oper oracle
# passwd oracle
```

■ 创建软件安装目录

```
# mkdir -p /u01/app/oracle/product/11.2.0/db_1
# chown -R oracle:oinstall /u01
# chmod -R 775 /u01
```

■ 修改 Oracle 环境变量

```
# su - oracle
$ vi .bash_profile
# Oracle Settings
export TMP=/tmp
export TMPDIR=$TMP

export ORACLE_HOSTNAME=dbtest5
export ORACLE_UNQNAME=DB11G
export ORACLE_BASE=/u01/app/oracle
export ORACLE_HOME=$ORACLE_BASE/product/11.2.0/db_1
export ORACLE_SID=DB11G

export PATH=/usr/sbin:$PATH
```

```
export PATH=$ORACLE_HOME/bin:$PATH
export LD_LIBRARY_PATH=$ORACLE_HOME/lib:/lib:/usr/lib
export CLASSPATH=$ORACLE_HOME/jlib:$ORACLE_HOME/rdbms/jlib
```

■ 解压软件安装包

```
# 11.2.0.1
$ unzip linux.x64_11gR2_database_1of2.zip
$ unzip linux.x64_11gR2_database_2of2.zip

#11.2.0.2
$ unzip p10098816_112020_Linux-x86-64_1of7.zip
$ unzip p10098816_112020_Linux-x86-64_2of7.zip

#11.2.0.3
$ unzip p10404530_112030_Linux-x86-64_1of7.zip
$ unzip p10404530_112030_Linux-x86-64_2of7.zip

#11.2.0.4
$ unzip p13390677_112040_Linux-x86-64_1of7.zip
$ unzip p13390677_112040_Linux-x86-64_2of7.zip
```

3.2 执行安装

■ 启动图形安装界面

```
$ export DISPLAY=172.17.99.24:0.0
$ ./runInstaller
```

■ 配置安全与更新

Oracle Database 11g Release 2 Installer - Installing database - Step 1 of 11

Configure Security Updates

Provide your email address to be informed of security issues, install the product and initiate configuration manager. [View details.](#)

Email:


Easier for you if you use your My Oracle Support email address/username.

☐ [I wish to receive security updates via My Oracle Support.](#)

My Oracle Support Password:

Help < Back Next > Install Cancel

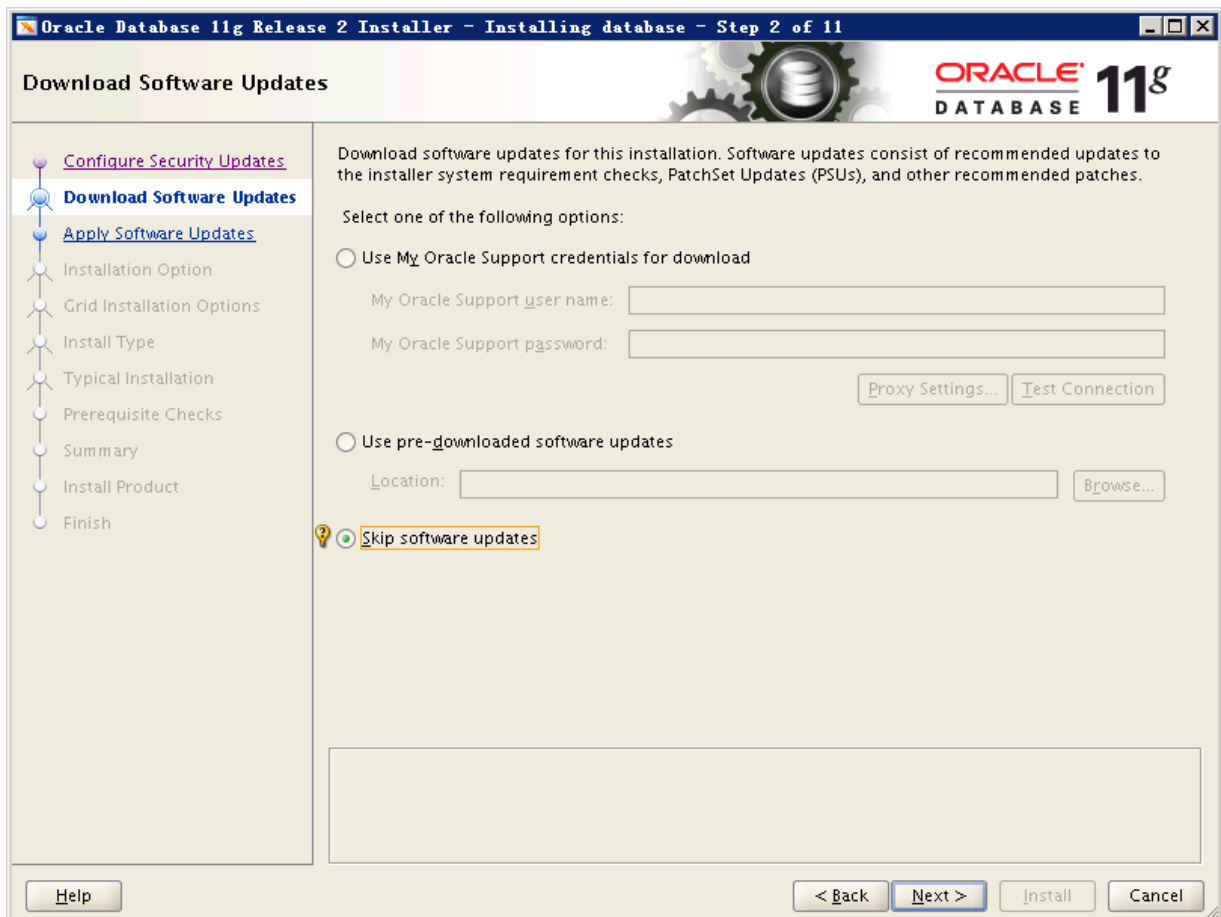
My Oracle Support Username/Email Address Not Specified

 You have not provided an email address.

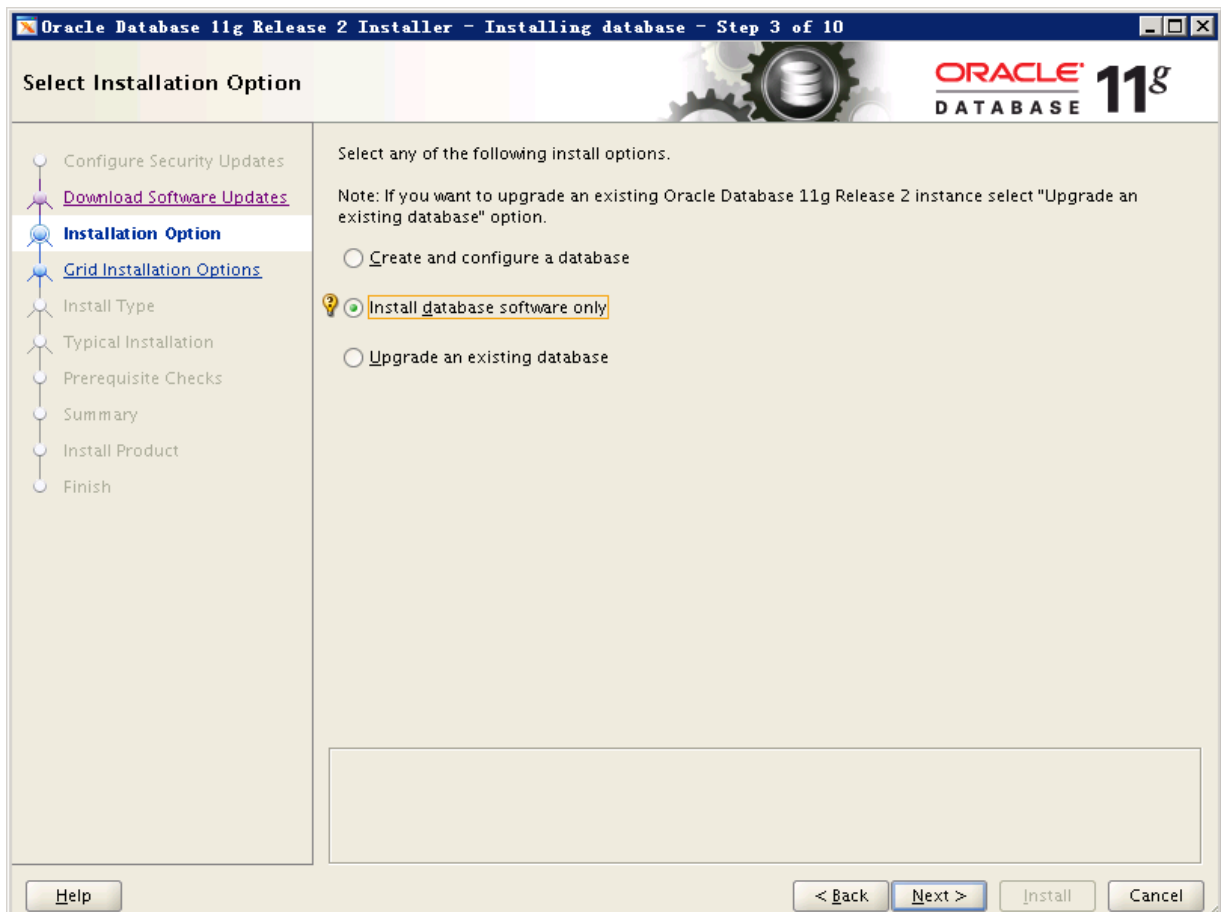
Do you wish to remain uninformed of critical security issues in your configuration?

Yes No

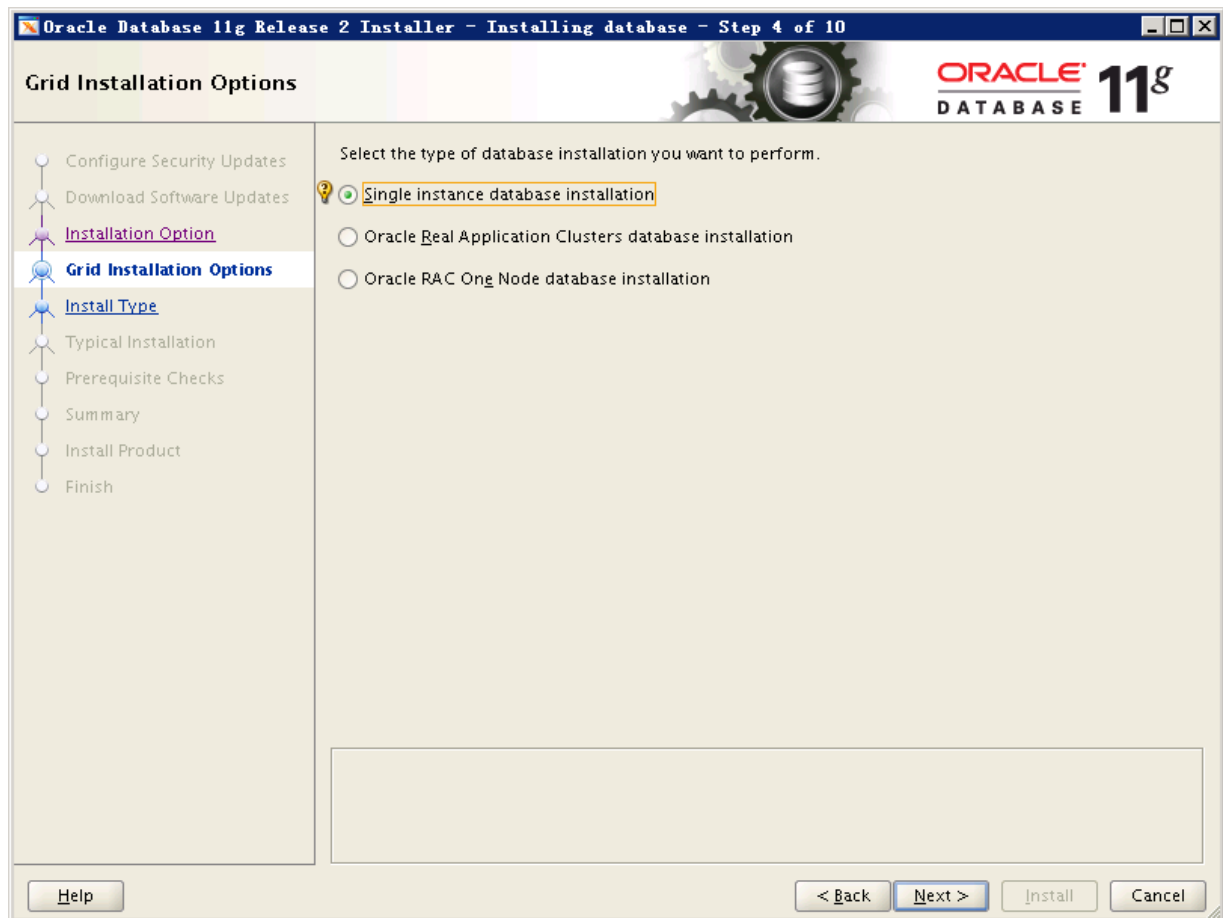
注：取消更新选择



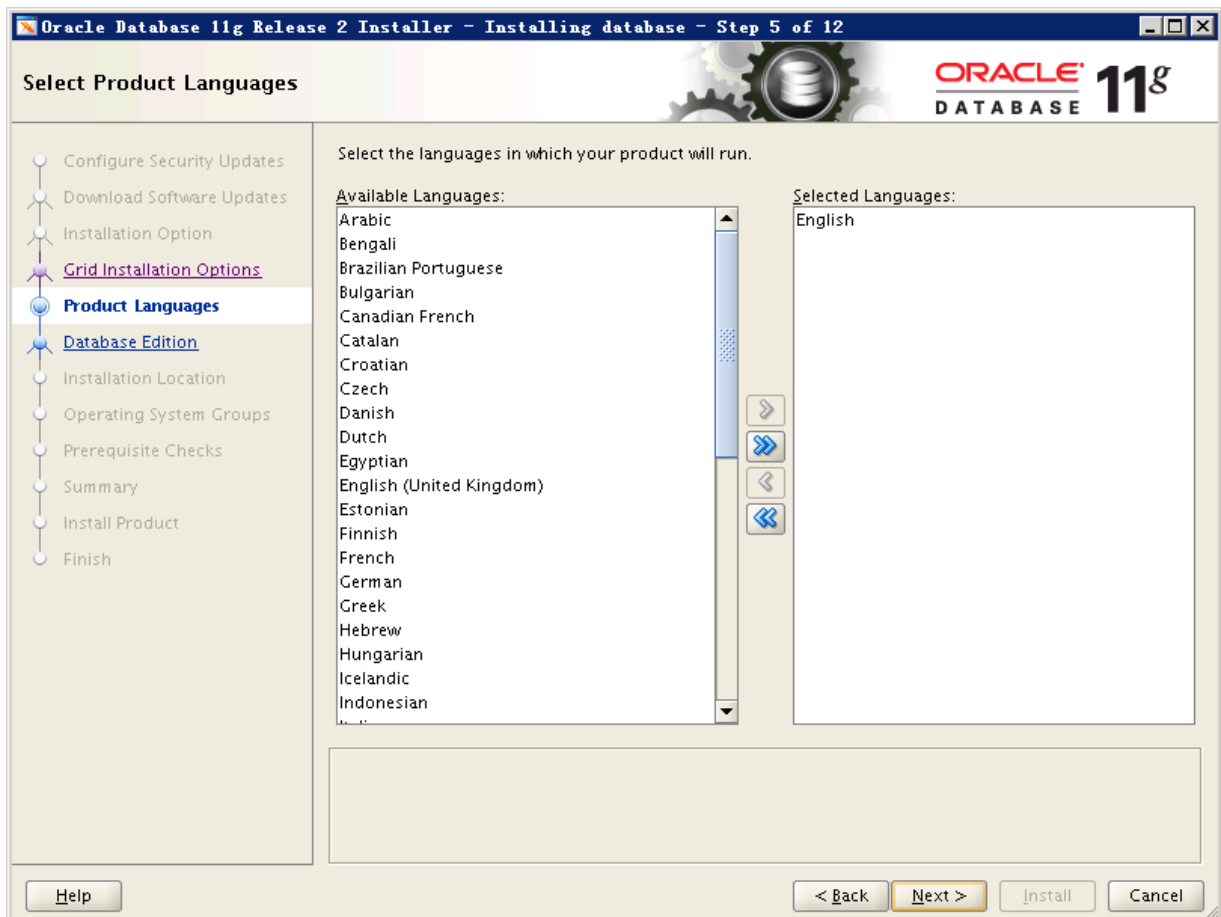
■ 选择仅安装数据库软件选项



■ 选择单实例安装模式



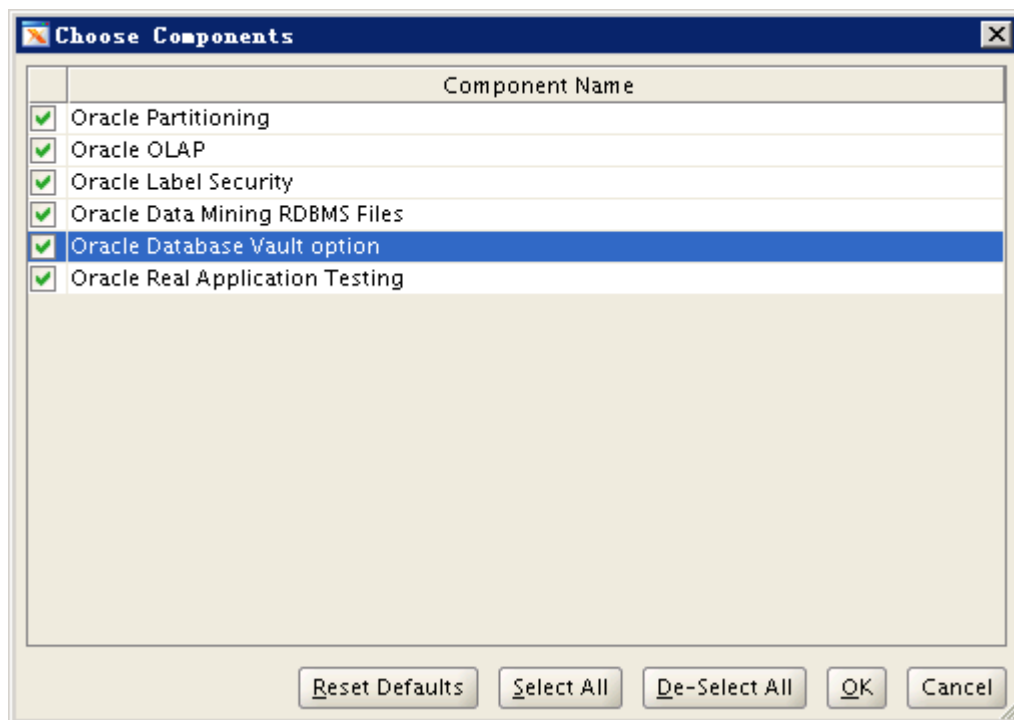
■ 选择安装语言



■ 选择安装企业版选项



■ 选择安装组件



■ 选择安装位置

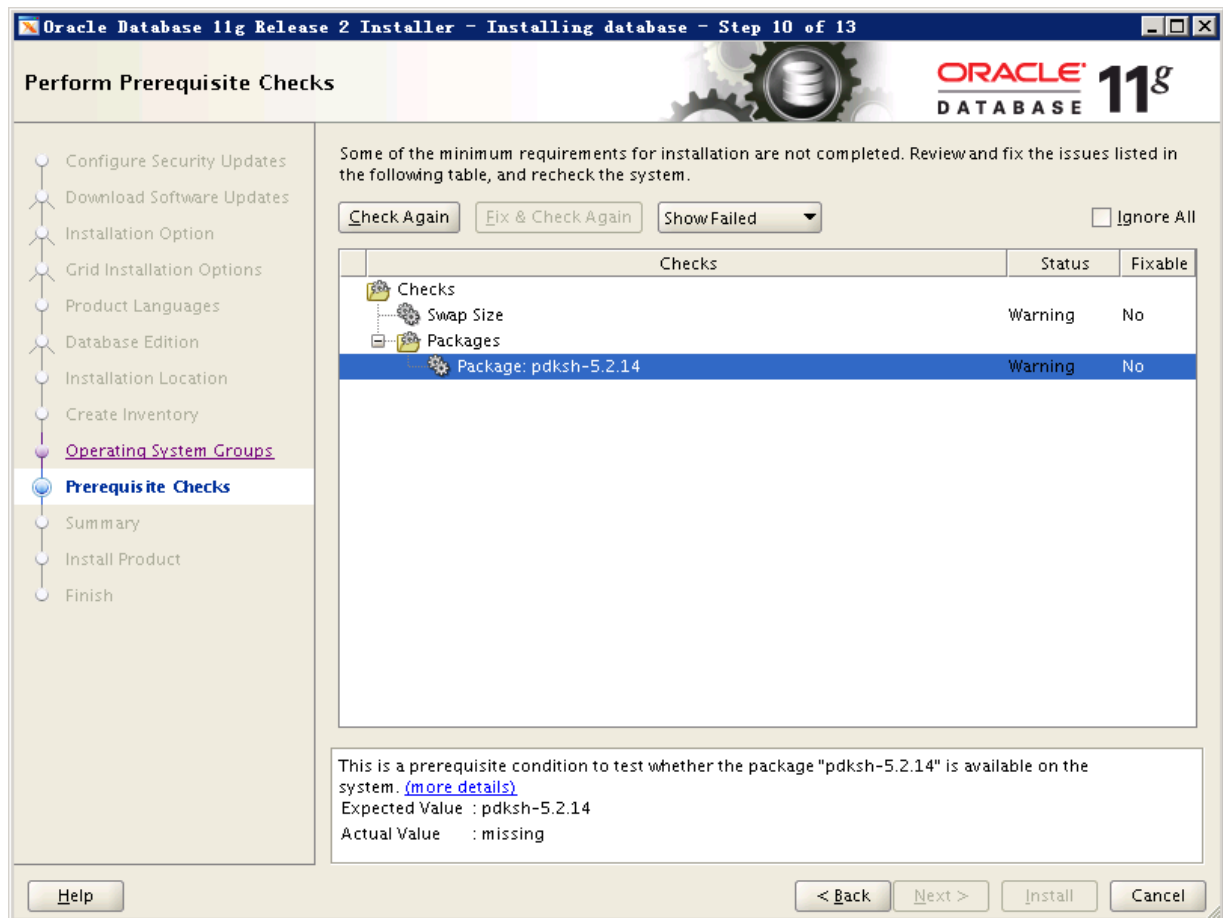




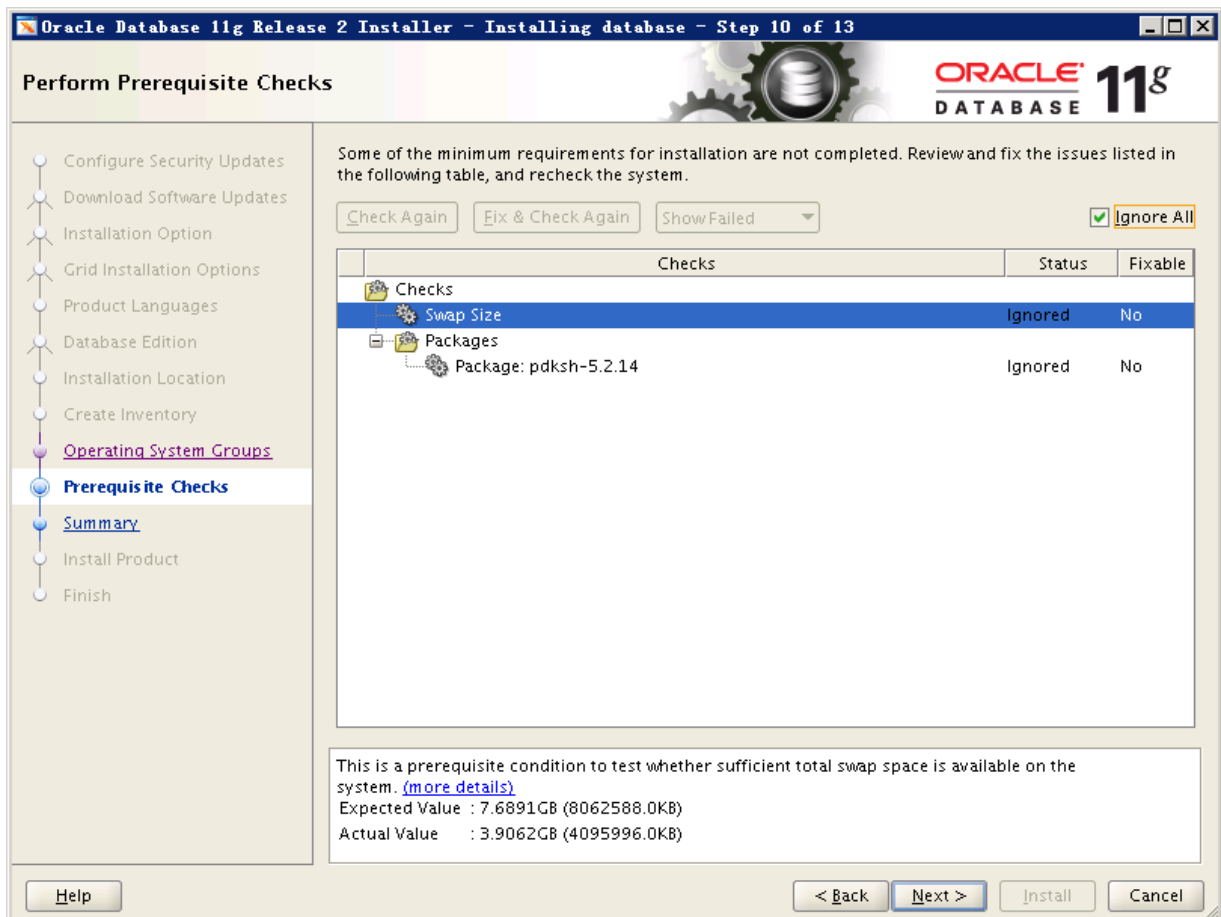
■ 选择安装用户组



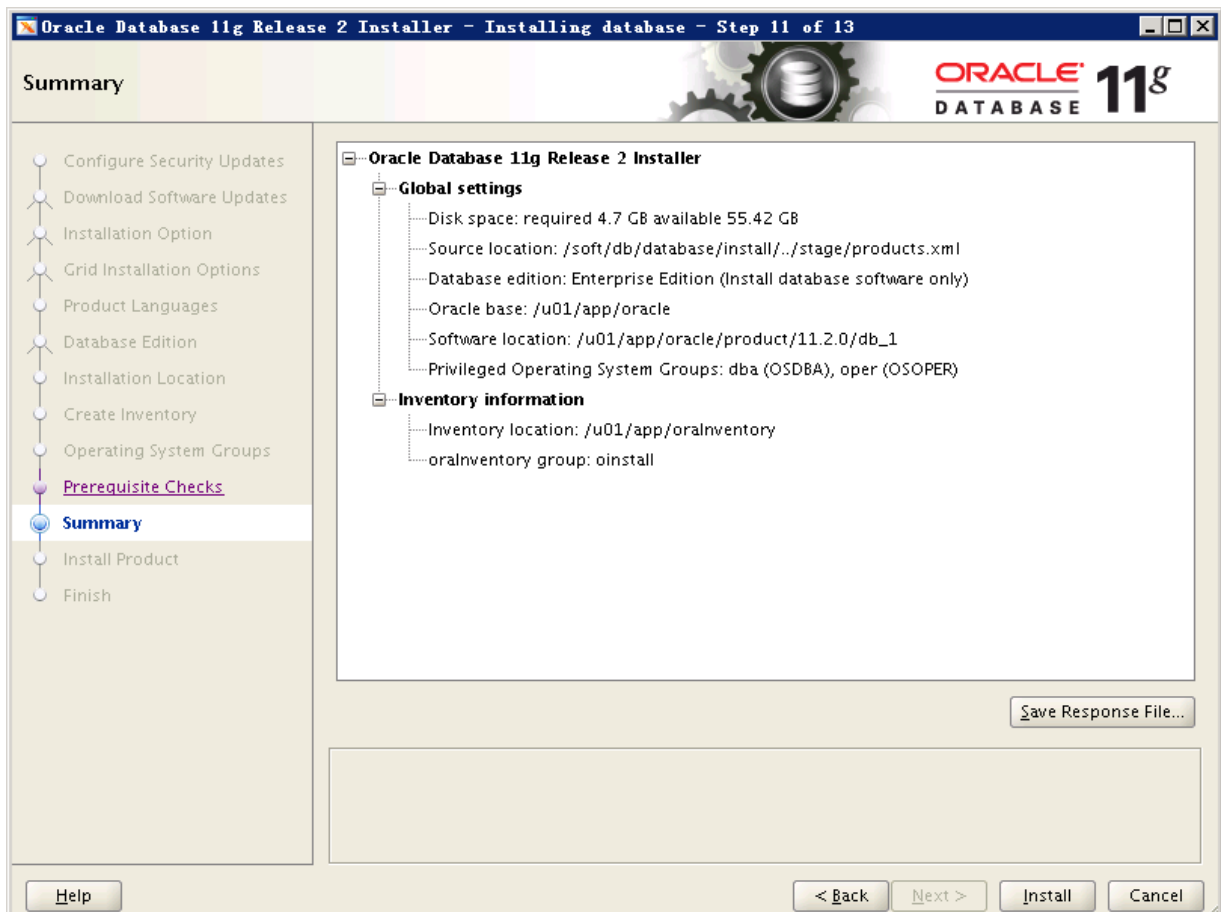
■ 安装前校验检查



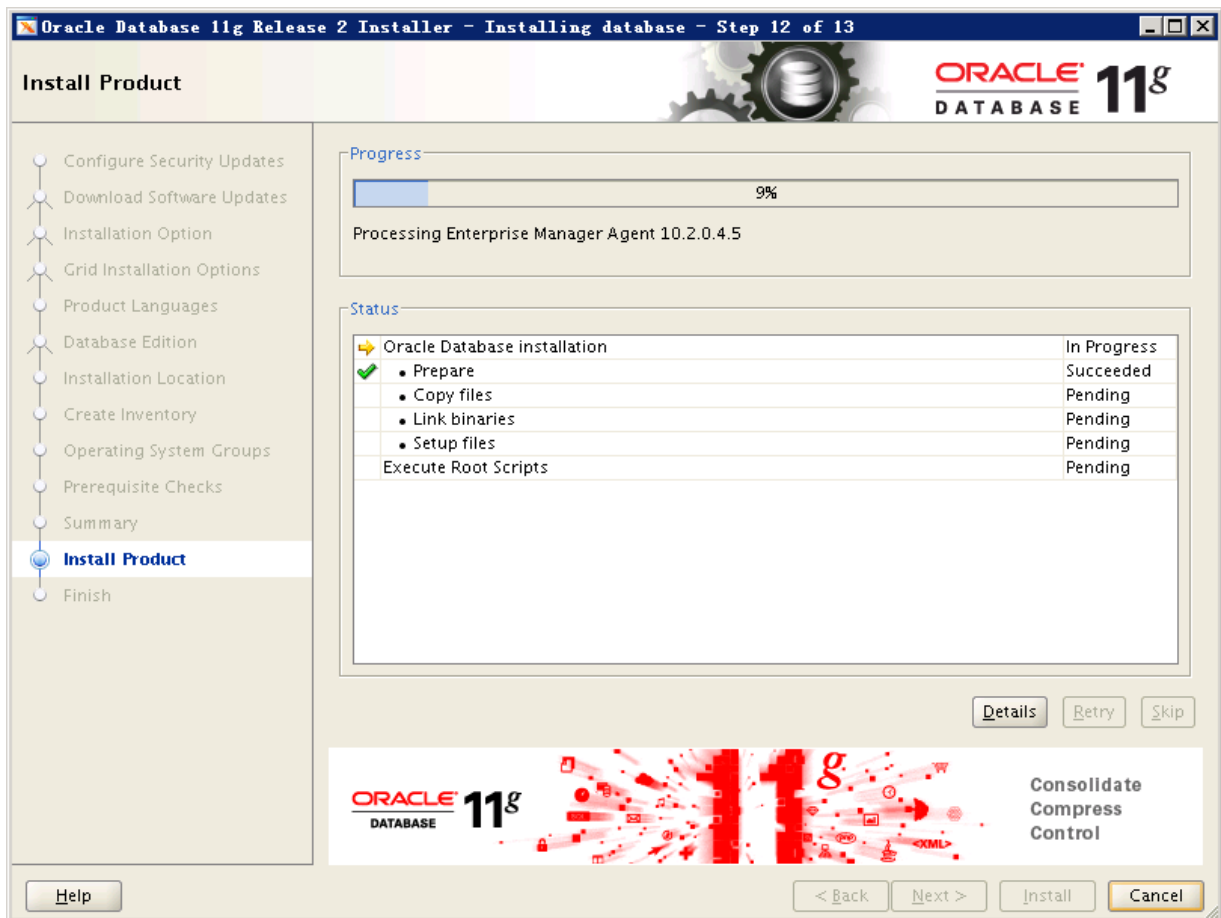
■ 忽略此检查警告



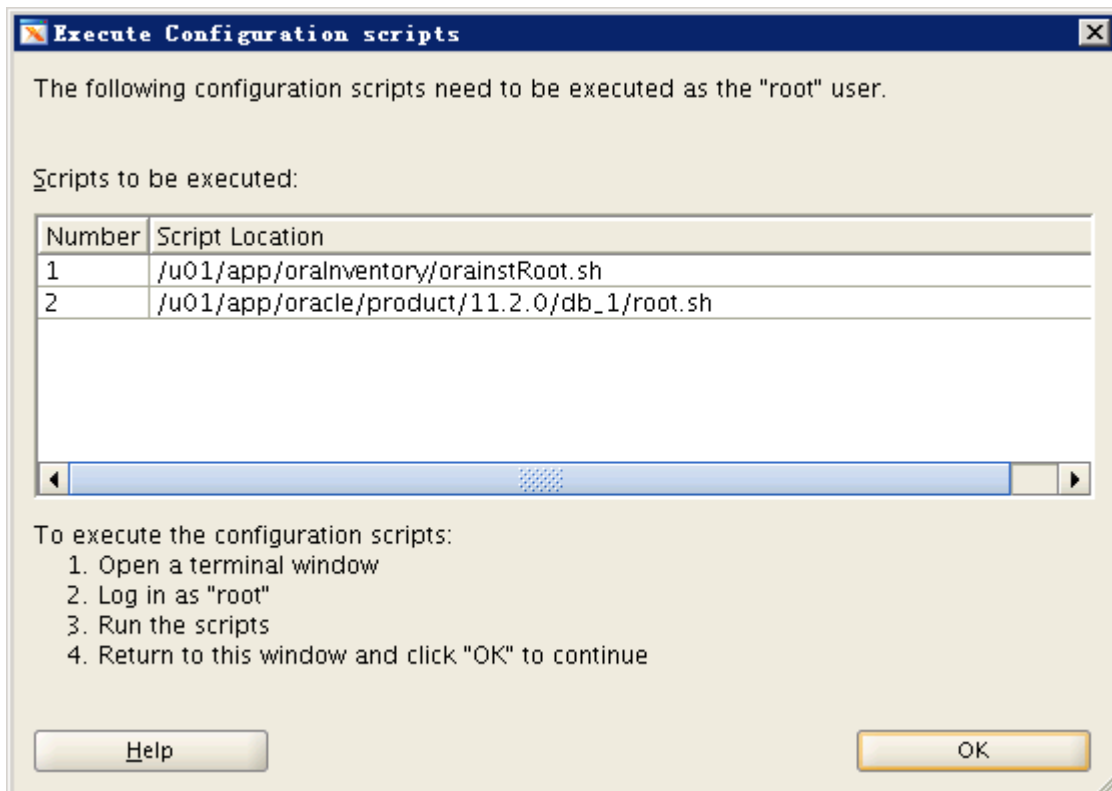
■ 安装前概览



■ 执行安装



■ 运行 root 脚本



```
# /u01/app/oraInventory/orainstRoot.sh

Changing permissions of /u01/app/oraInventory.
Adding read,write permissions for group.
Removing read,write,execute permissions for world.

Changing groupname of /u01/app/oraInventory to oinstall.
The execution of the script is complete.
# /u01/app/oracle/product/11.2.0/db_1/root.sh
Performing root user operation for Oracle 11g

The following environment variables are set as:
    ORACLE_OWNER= oracle
    ORACLE_HOME=  /u01/app/oracle/product/11.2.0/db_1

Enter the full pathname of the local bin directory: [/usr/local/bin]:
    Copying dbhome to /usr/local/bin ...
    Copying oraenv to /usr/local/bin ...
    Copying coraenv to /usr/local/bin ...

Creating /etc/oratab file...
Entries will be added to the /etc/oratab file as needed by
Database Configuration Assistant when a database is created
Finished running generic part of root script.
Now product-specific root actions will be performed.
Finished product-specific root actions.
```

3.3 安装完成

■ 安装完成

