Oracle 9i/10g Client
on
Novell LINUX Desktop 9

(How to Install)

Arun Singh
Novell Inc.
arun.singh@novell.com

http://www.novell.com/oracle

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Introduction

Oracle 9iR2 (9.2.0.6) and 10g (10.1.0.3) are SUSE LINUX Enterprise Server 9 (SLES 9) certified. This document will help you to install Oracle client on Novell Linux Desktop (NLD 9). NLD is powered by SUSE Linux and is complete enterprise Linux Desktop. NLD comes with choice of desktop environment (GNOME or KDE), OpenOffice, FireFox browser, Evolution email client, Instant messenger, Zenworks Resource Management, and much more. Please visit http://www.novell.com/products/desktop/ for more information.

Hardware Requirements

The system must meet the following minimum hardware requirements:

Requirement	**Minimum Value**
RAM	512 MB
Swap space	Approx. twice the size of RAM
Disk space in /tmp	400 MB
Disk space for software files	2.5 GB (2621440 KB)
Disk space for database files	1.2 GB

Required Software

Novell

1. Novell Linux Desktop 9 SW : Get evaluation copy from http://www.novell.com/products/desktop/eval.html .
2. gcc_old for SLES9: is available on SuSE maintenance web (http://sdb.suse.de/download/i386/update/SUSE-CORE/9/rpm/i586/gcc_old-2.95.3-175.2.i586.rpm).
3. orarun : Available on Novell web is to simplify pre-installation task (http://ftp.novell.com/partners/oracle/sles-9/orarun-1.8-109.5.i586.rpm)

Oracle

1. Oracle Database 9i R2 (9.2.0.4) and latest patch set (9.2.0.6): You can download this SW from OTN. Oracle client option is provided at install time.

Disk1 : ship_9204_linux_disk1.cpio.gz
Disk2 : ship_9204_linux_disk2.cpio.gz
Disk3 : ship_9204_linux_disk3.cpio.gz

2. Oracle database 10g Client R1(10.1.0.3):
   http://download.oracle.com/otn/linux/oracle10g/ship.client.lnx32.cpio.gz

Installation

I will split installation in two section one for 9iR2 and other for 10g as there are some minor adjustment needed for 9iR2.

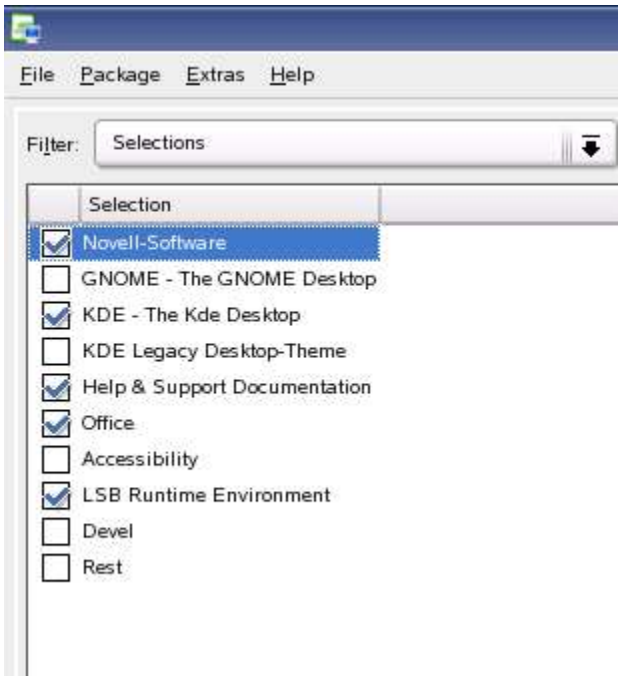
Note: These instruction are tested with x-86 architecture. Also, described steps applies to SUSE LINUX Professional 9.2 and SUSE LINUX Enterprise Server 9 too.

9iR2 Client : Installation Steps

1. Install Novell Linux Desktop 9

Follow the Installation instructions provided in NLD9 install manual.

NLD9 with default packages along with “LSB Runtime Environment” is sufficient for Oracle client install.



Make sure no compiler is present “gcc --version” will show if gcc is installed. Create a backup, If it is present. Install gcc_old and make it as default compiler.

#rpm -i gcc_old-2.95.3-175.2.i586.rpm

ln -s /opt/gcc295/bin/gcc /usr/bin/gcc
ln -s /opt/gcc295/bin/gcc /usr/bin/cc
ln -s /opt/gcc295/bin/g++ /usr/bin/g++

```
nld9:/opt/gcc295 # ln -s /opt/gcc295/bin/gcc /usr/bin/gcc
nld9:/opt/gcc295 # ln -s /opt/gcc295/bin/cc /usr/bin/cc
nld9:/opt/gcc295 # ln -s /opt/gcc295/bin/g++ /usr/bin/g++
nld9:/opt/gcc295 # gcc -v
Reading specs from /opt/gcc295/lib/gcc-lib/i486-suse-linux/2.95.3/specs
gcc version 2.95.3 20010315 (SuSE)
```

2. Oracle Install prerequisites

SUSE provides orarun package to automate most of the Oracle pre-install task. Refer to Oracle installation document for complete list of prerequisites.

orarun :

1. Install orarun package. Required dependent packages are provided in NLD9 (pdksh, libaio and libaio-devel).

   rpm -i /media/cdrom/suse/i586/orarun-1.8-109.5.i586.rpm

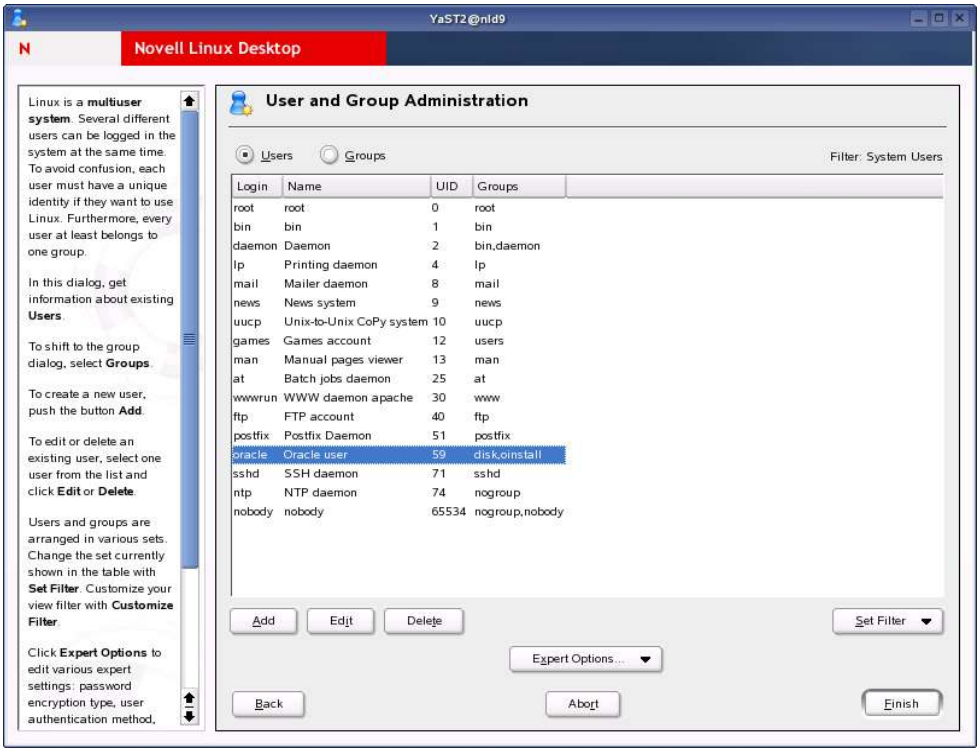
```
nld9:/ # rpm -i /tmp/orarun-1.8-109.5.i586.rpm
error: Failed dependencies:
        pdksh is needed by orarun-1.8-109.5
        libaio is needed by orarun-1.8-109.5
        libaio-devel is needed by orarun-1.8-109.5
nld9:/ # rpm -i /tmp/orarun-1.8-109.5.i586.rpm
Updating etc/sysconfig/oracle...
nld9:/ #
```

2. The account for “oracle” user is disabled. Enable it, by changing the shell for the "oracle" user from "/bin/false" to "/bin/bash", either using YaST user administration, or by editing the file "/etc/passwd".

   Also, set a new password for user “oracle” i.e. “/usr/bin/passwd oracle”.

   You can use the SUSE setup tool YaST to accomplish above task.

/sbin/yast2 -> “security and Users” ->”Edit and create groups”
Select Users tab and Set System Users filter to see oracle user.



3. Default ORACLE_SID set by orarun install is “mydb”. Change it to your preferred name in “/etc/profile.d/oracle.sh” file.

4. Run “/usr/sbin/rcoracle start “ to set kernel parameters.

3. Install Oracle Client 9iR2 (9.2.0.4)

1. Get Oracle 9iR2 (9204) Software from oracle web or use your Oracle Disks. If you have downloaded SW then gunzip and cpio files. It will create three directory Disk1, Disk2 and Disk3.

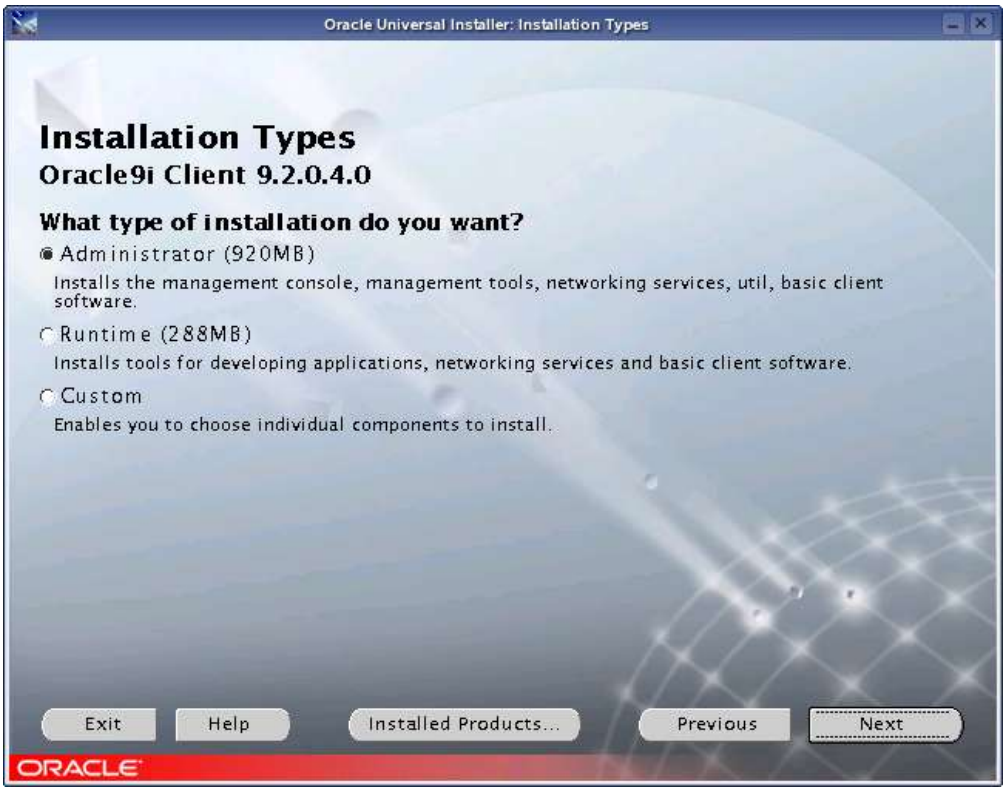
    a. gunzip “file_name”
    b. cpio command: cpio -idmv < “file_name”

2. Make sure you are logged in as “**oracle**” user. Export following variables before starting Oracle 9i R2 installation.

“export LD_ASSUME_KERNEL=2.4.21”
“export LD_PRELOAD=/usr/lib/libInternalSymbols.so”

3. Run Oracle installer from Disk1 directory:./runInstaller

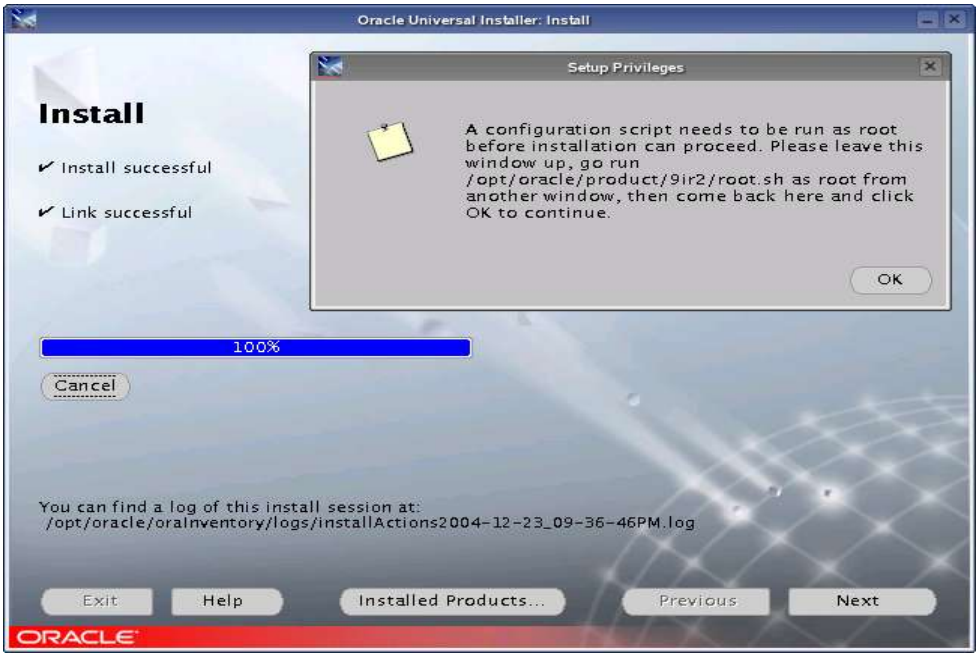
Following install screen will appear. Follow directions carefully.


Oracle Universal Installer: Installation Types
Installation Types
Oracle9i Client 9.2.0.4.0
What type of installation do you want?
Administrator (920MB)
Installs the management console, management tools, networking services, util, basic client software.
Runtime (288MB)
Installs tools for developing applications, networking services and basic client software.
Custom
Enables you to choose individual components to install.
Exit
Help
Installed Products...
Previous
Next
ORACLE

Oracle Universal Installer: Summary
Summary
Oracle9i Client 9.2.0.4.0
Global Settings
Source : /oracle9i/Disk1/stage/products.jar
Oracle Home : /opt/oracle/product/9ir2 (OUIHome)
Installation Type : Administrator
Product Languages
English
Space Requirements
/ Required 740MB (includes 51MB temporary) : Available 4.03GB
New Installations (125 products)
Advanced Queueing (AQ) API 9.2.0.4.0
Agent Required Support Files 9.2.0.4.0
Assistant Common Files 9.2.0.4.0
Authentication and Encryption 9.2.0.4.0
Bali Share 1.1.17.0.0
Capacity Planner 9.2.0.1.0
Change Management Common Files 9.2.0.1.0
Exit
Help
Installed Products...
Previous
Install
ORACLE

4. Installation will walk you through with self explanatory instructions. Comment out “$CHMODF 750 $ORACLE_HOME/network/agent/html” line before executing root.sh.

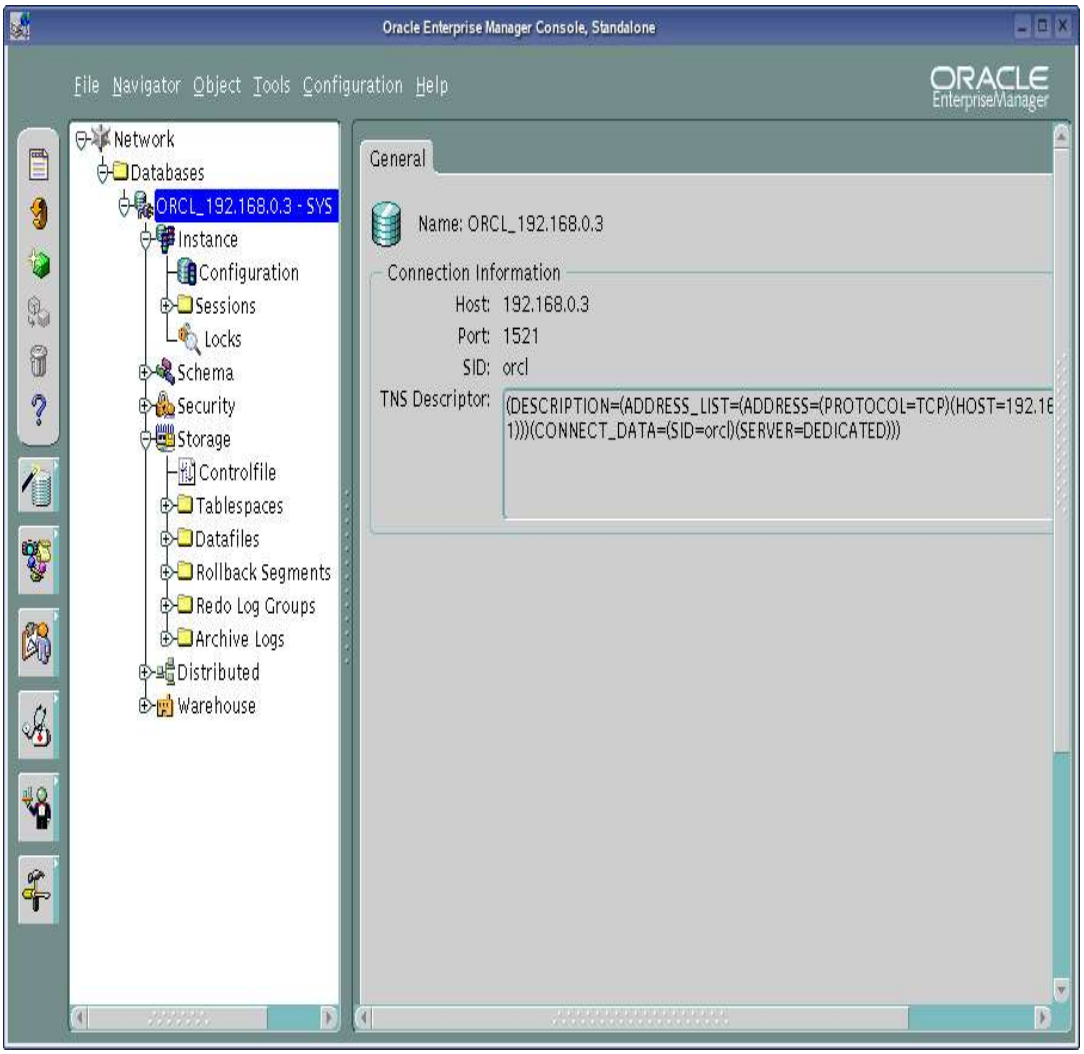
```
$CHMODF 750 $ORACLE_HOME/network/agent/reco
#$CHMODF 750 $ORACLE_HOME/network/agent/html
$CHMODF 1777 $ORACLE_HOME/network/agent/inbout
```



5. Oracle client installation will continue with Net Configuration Assistant. Here are some screen shots.

4. Oracle Enterprise Manager

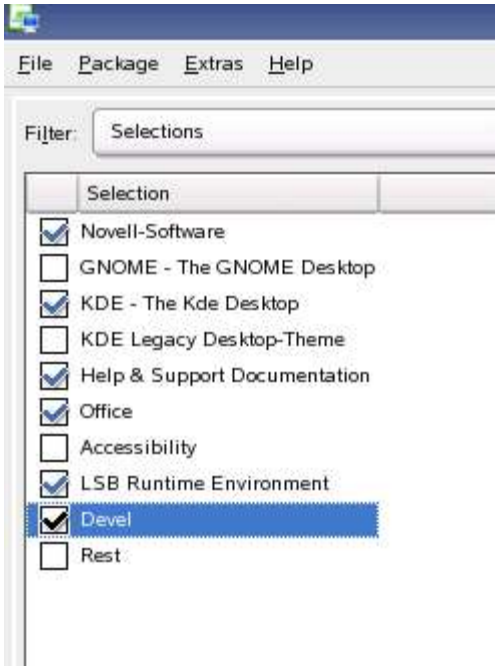
Make sure your database is up and running before connecting remotely.



10g R1Client : Installation Steps

Oracle 10g Client Install is straight forward. Here are steps to remember:

1. Install NLD9 with default compiler i.e. you don't need gcc_old. you can individually select gcc, make or select “Devel” and “LSB Runtime Environment”.



Make sure you have gcc installed and working.

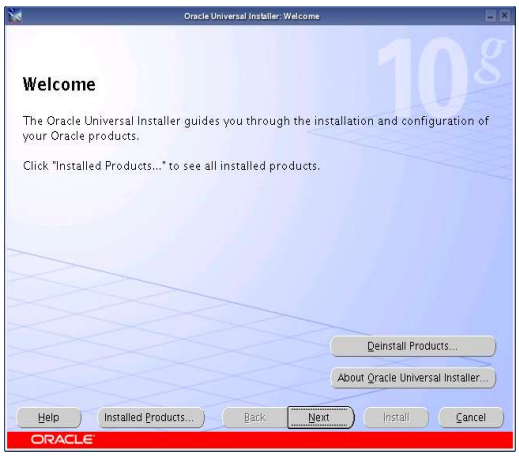
```
nld9:/ # ls -al /usr/bin/gcc
-rwxr-xr-x  1 root root 98665 2004-08-25 07:42 /usr/bin/gcc
nld9:/ # gcc --version
gcc (GCC) 3.3.3 (SuSE Linux)
Copyright (C) 2003 Free Software Foundation, Inc.
```

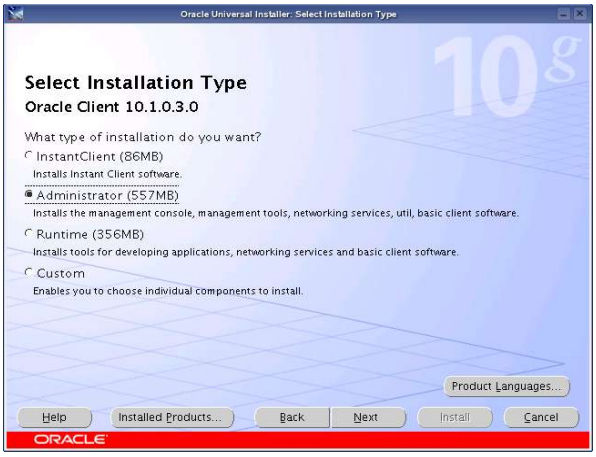
2. Install orarun and modify /etc/profile.d/oracle.sh to reflect correct ORACLE_HOME and ORACLE_SID.

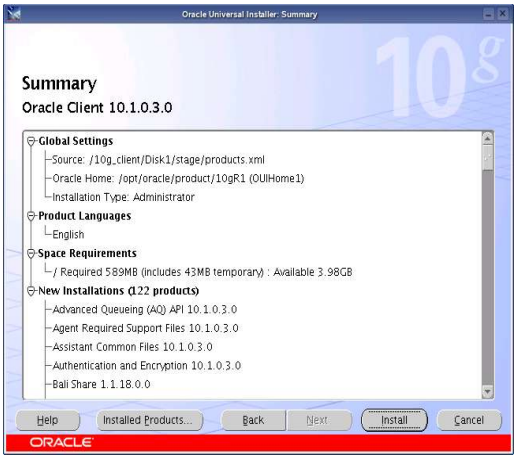
3. Make sure you are logged in as “**oracle**” user to start Oracle installation.

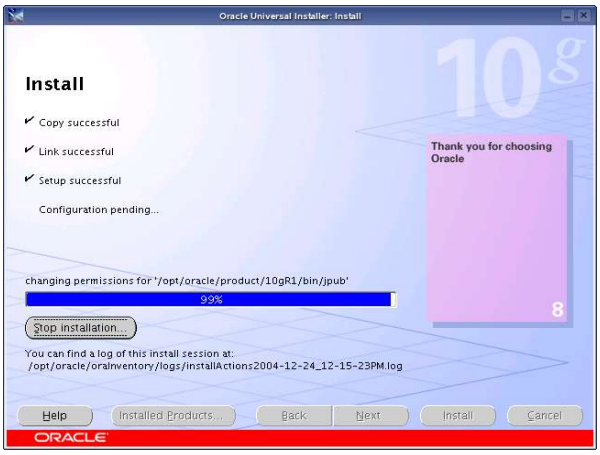
   ./runInstaller

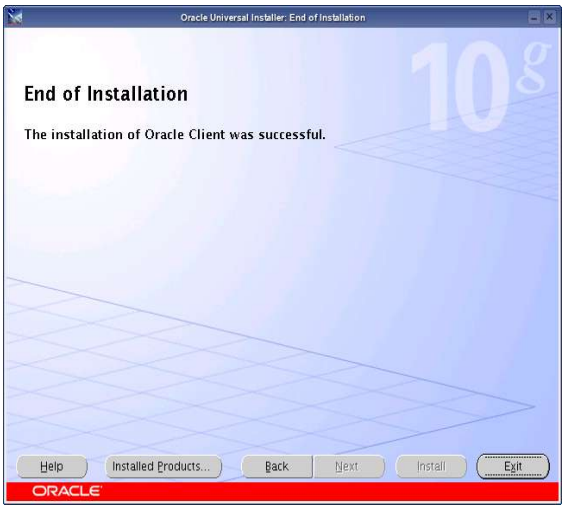
Here are some screen shots for your convenience:


Oracle Universal Installer: Welcome
Welcome
The Oracle Universal Installer guides you through the installation and configuration of your Oracle products.
Click "Installed Products..." to see all installed products.
Deinstall Products...
About Oracle Universal Installer...
Help
Installed Products...
Back
Next
Install
Cancel
ORACLE

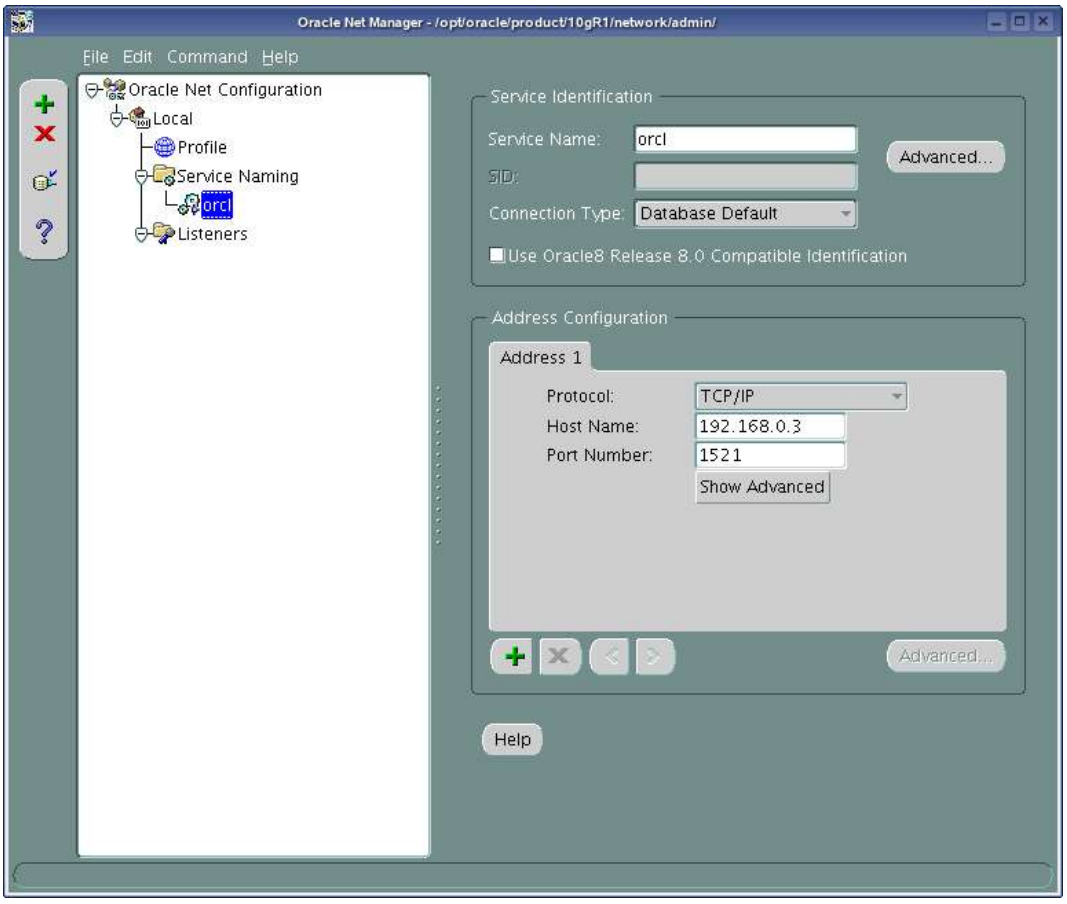

Oracle Universal Installer: Select Installation Type
Select Installation Type
Oracle Client 10.1.0.3.0
What type of installation do you want?
InstantClient (86MB)
Installs Instant Client software.
Administrator (557MB)
Installs the management console, management tools, networking services, util, basic client software.
Runtime (356MB)
Installs tools for developing applications, networking services and basic client software.
Custom
Enables you to choose individual components to install.
Product Languages...
Help
Installed Products...
Back
Next
Install
Cancel
ORACLE


Oracle Universal Installer: Summary
Summary
Oracle Client 10.1.0.3.0
Global Settings
Source: /10g_client/Disk1/stage/products.xml
Oracle Home: /opt/oracle/product/10gR1 (OUIHome1)
Installation Type: Administrator
Product Languages
English
Space Requirements
/ Required 589MB (includes 43MB temporary) : Available 3.98GB
New Installations (122 products)
Advanced Queueing (AQ) API 10.1.0.3.0
Agent Required Support Files 10.1.0.3.0
Assistant Common Files 10.1.0.3.0
Authentication and Encryption 10.1.0.3.0
Bali Share 1.1.18.0.0
Help
Installed Products...
Back
Next
Install
Cancel
ORACLE


Oracle Universal Installer: Install
Install
Copy successful
Link successful
Setup successful
Configuration pending...
Thank you for choosing Oracle
changing permissions for "/opt/oracle/product/10gR1/bin/jpub"
99%
Stop installation...
You can find a log of this install session at:
/opt/oracle/oraInventory/logs/installActions2004-12-24_12-15-23PM.log
Help
Installed Products...
Back
Next
Install
Cancel
ORACLE



Oracle Net Manager (netmgr) :



Enjoy!