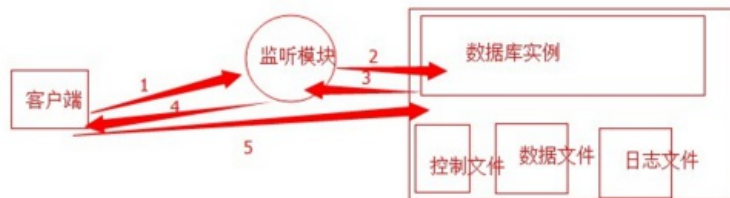


Oracle网络配置（原创）

Oracle 客户端连接到数据库依赖于Oracle Net。Oracle提供了很多基于客户端或服务器的配置工具。

重要名词：监听、服务名、命名方法、NETCA、NETMGR、LSNRCTL、SRVCTL、LISTENER.ORA、SQLNET.ORA、TNSNAMES.ORA等

客户端与服务器通信原理图：



1 客户端通过配置好的ip、端口、服务名等去连接监听程序。

2 监听程序通过服务名去连接数据实例。

3 数据库实例创建一个服务器进程，然后把服务器进程的地址告诉监听。

4 监听再将服务器地址告诉客户端。

5 客户端拿着这个地址直接去连接数据库实例，客户端会把用户名和密码给服务器进程，服务器进程验证通过后，正式建立链接，以后的客户端和数据库实例连接 都不经过监听了。

一、配置监听

监听分为动态监听和静态监听，从ORACLE9i开始，ORACLE支持动态监听。

动态监听必须在数据库实例打开后才能正常启动和提供监听服务。

在安装GRID后，ASM接管了监听服务，ORACLE数据库也可以配置监听，但一般都在ASM实例下去管理监听。

1.动态监听

动态监听为服务器自动管理监听服务，不需要配置listener.ora文件。

演示如下：

```
[grid@dbserver admin]$ pwd
/u01/app/grid/product/11.2.0/grid/network/admin
[grid@dbserver admin]$ ll
total 24
-rw-r--r-- 1 grid oinstall 491 Mar 20 20:48 listener.bak
-rw-r--r-- 1 grid oinstall 777 Mar 21 00:30 listener.ora
-rw-r--r-- 1 grid oinstall 677 Mar 21 00:28 listener.ora.bak.dbserver
drwxr-xr-x 2 grid oinstall 4096 Mar 14 00:50 samples
-rw-r--r-- 1 grid oinstall 381 Dec 17 2012 shrept.lst
-rw-r--r-- 1 grid oinstall 215 Mar 14 01:50 sqlnet.ora
[grid@dbserver admin]$ rm -rf listener.ora --删除监听配置文件
[grid@dbserver admin]$ ll
total 20
-rw-r--r-- 1 grid oinstall 491 Mar 20 20:48 listener.bak
-rw-r--r-- 1 grid oinstall 677 Mar 21 00:28 listener.ora.bak.dbserver
drwxr-xr-x 2 grid oinstall 4096 Mar 14 00:50 samples
-rw-r--r-- 1 grid oinstall 381 Dec 17 2012 shrept.lst
-rw-r--r-- 1 grid oinstall 215 Mar 14 01:50 sqlnet.ora

[grid@dbserver ~]$ lsnrctl --在服务器中进入监听管理程序
LSNRCTL for Linux: Version 11.2.0.4.0 - Production on 21-MAR-2017 20:16:38
Copyright (c) 1991, 2013, Oracle. All rights reserved.
Welcome to LSNRCTL, type "help" for information.
```

```
LSNRCTL> status
Connecting to (ADDRESS=(PROTOCOL=tcp)(HOST=)(PORT=1521))
TNS-12541: TNS:no listener
TNS-12560: TNS:protocol adapter error
TNS-00511: No listener
Linux Error: 111: Connection refused
LSNRCTL> start
Starting /u01/app/grid/product/11.2.0/grid/bin/tnslsnr: please wait...
TNSLSNR for Linux: Version 11.2.0.4.0 - Production
Log messages written to /u01/app/grid/diag/tnslsnr/dbserver/listener/alert/log.xml
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=dbserver)(PORT=1521)))
Connecting to (ADDRESS=(PROTOCOL=tcp)(HOST=)(PORT=1521))
STATUS of the LISTENER
-----
Alias                LISTENER      --显示监听默认名字
Version              TNSLSNR for Linux: Version 11.2.0.4.0 - Production --显示监听版本信息
Start Date           21-MAR-2017 20:16:53      --显示开启监听的时间
Uptime               0 days 0 hr. 0 min. 5 sec --表示监听服务打开时间
Trace Level          off                    --显示监听跟踪关闭, 不产生监听trace文件
Security             ON: Local OS Authentication --显示为操作系统认证
SNMP                 OFF
Listener Log File    /u01/app/grid/diag/tnslsnr/dbserver/listener/alert/log.xml --显示监听的日志文件路径
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=dbserver)(PORT=1521))) --显示连接协议、主机、端口
The listener supports no services      --没有监听到数据库服务
The command completed successfully
```

```
LSNRCTL> status --间隔一段时间后再次查看监听状态
Connecting to (ADDRESS=(PROTOCOL=tcp)(HOST=)(PORT=1521))
STATUS of the LISTENER
-----
Alias                LISTENER
Version              TNSLSNR for Linux: Version 11.2.0.4.0 - Production
Start Date           21-MAR-2017 20:16:53
Uptime               0 days 0 hr. 1 min. 42 sec --一般在1分钟内, 监听程序可以侦测到数据库服务并正常打开服务监控。
Trace Level          off
Security             ON: Local OS Authentication
SNMP                 OFF
Listener Log File    /u01/app/grid/diag/tnslsnr/dbserver/listener/alert/log.xml --表示监听日志文件
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=dbserver)(PORT=1521)))
Services Summary...
Service "+ASM" has 1 instance(s).
  Instance "+ASM", status READY, has 1 handler(s) for this service... --READY表示动态监听
Service "sztech1" has 1 instance(s).
  Instance "sztech1", status READY, has 1 handler(s) for this service...
Service "sztech1XDB" has 1 instance(s).
  Instance "sztech1", status READY, has 1 handler(s) for this service...
Service "sztech2" has 1 instance(s).
  Instance "sztech1", status READY, has 1 handler(s) for this service...
The command completed successfully
```

```
LSNRCTL> help --查看监听控制程序的相关命令
The following operations are available
An asterisk (*) denotes a modifier or extended command:
```

```
start      stop      status
services   version   reload
save_config trace     spawn
change_password quit     exit
set*       show*
```

```
LSNRCTL>
```

2.静态监听

静态监听为用户自己配置的监听, 配置文件为\$ORACLE_HOME/network/admin/listener.ora

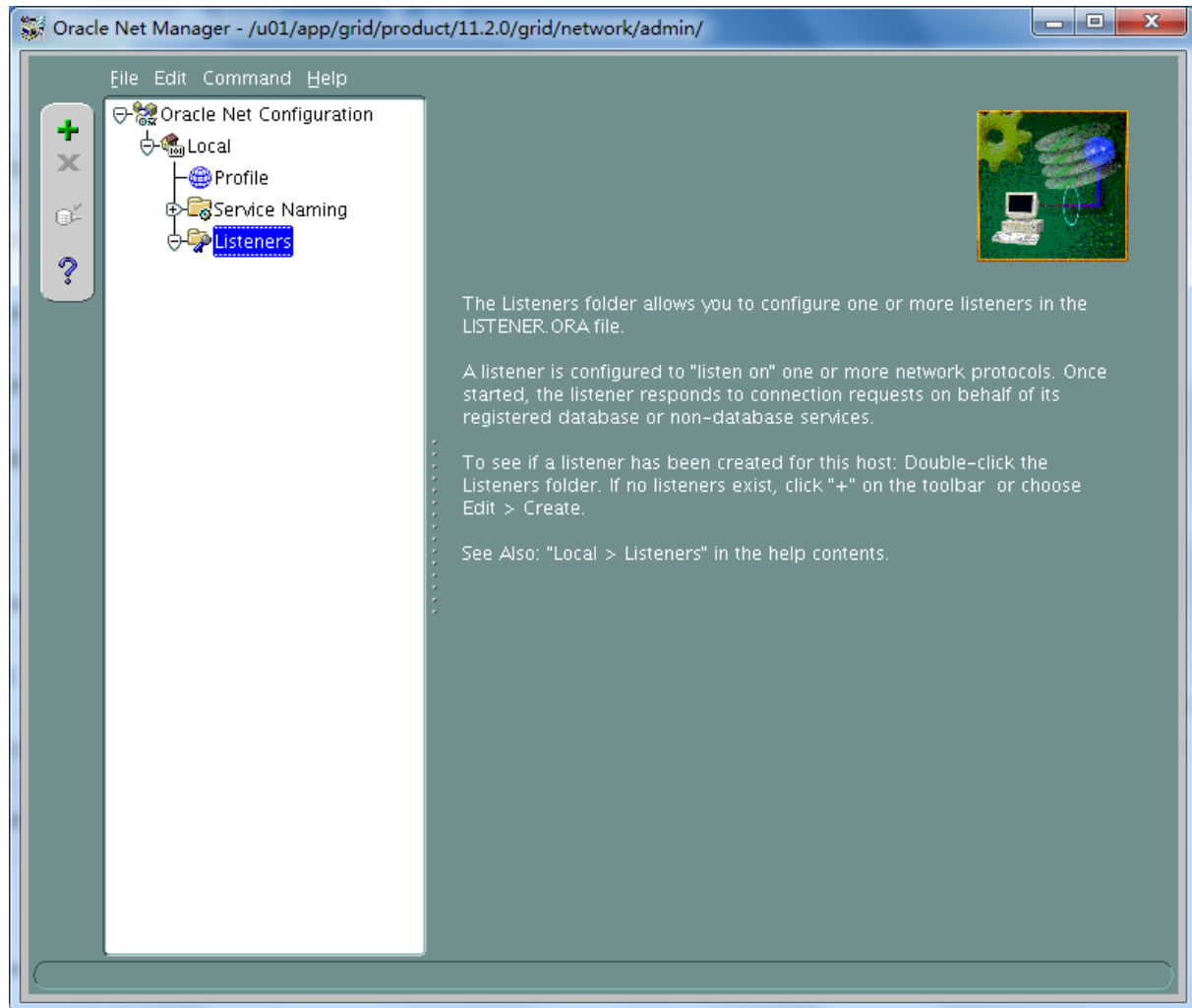
静态监听即使数据库没有正常打开，也可以开始提供监听连接服务，只是无法正常连接到数据库。

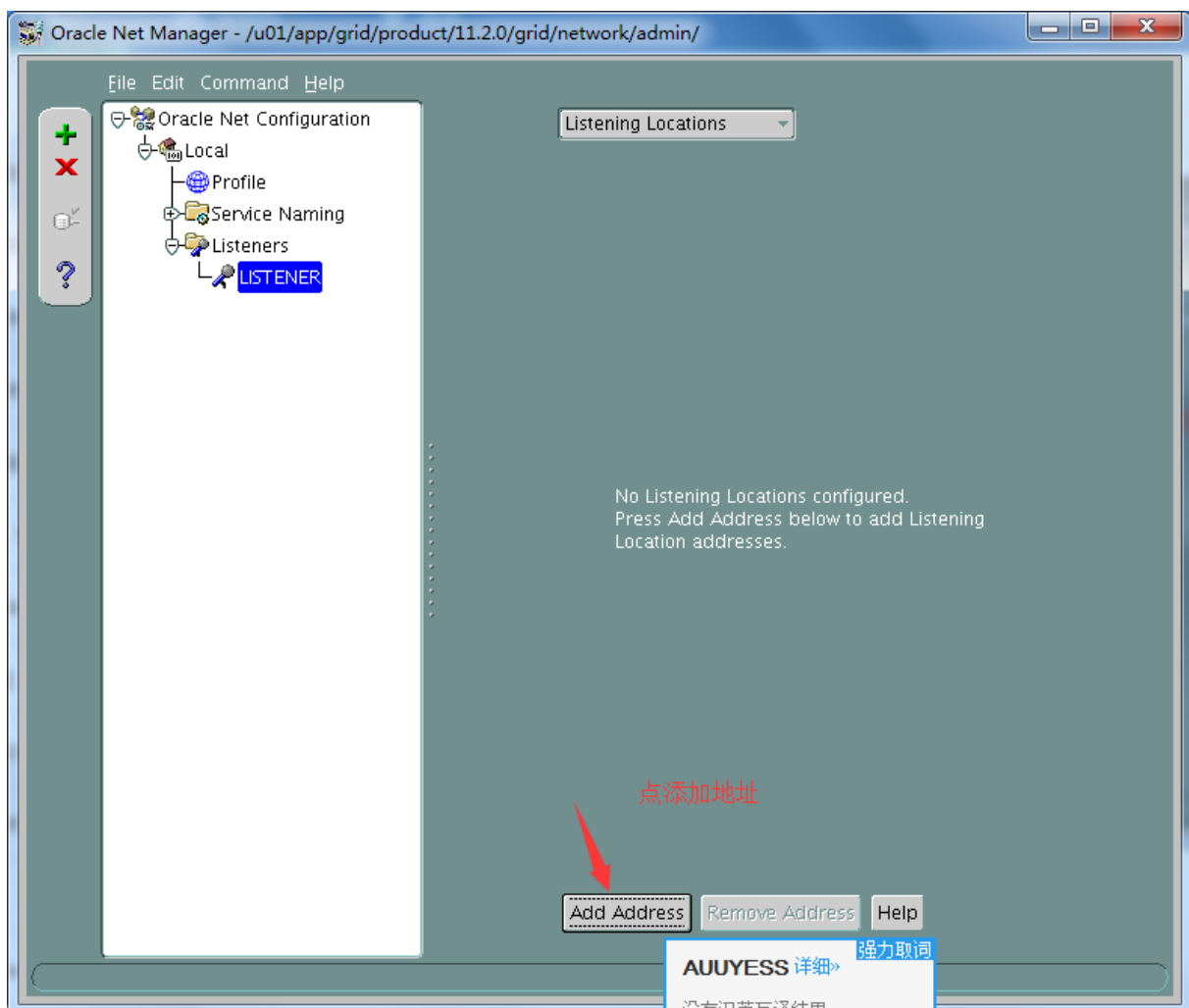
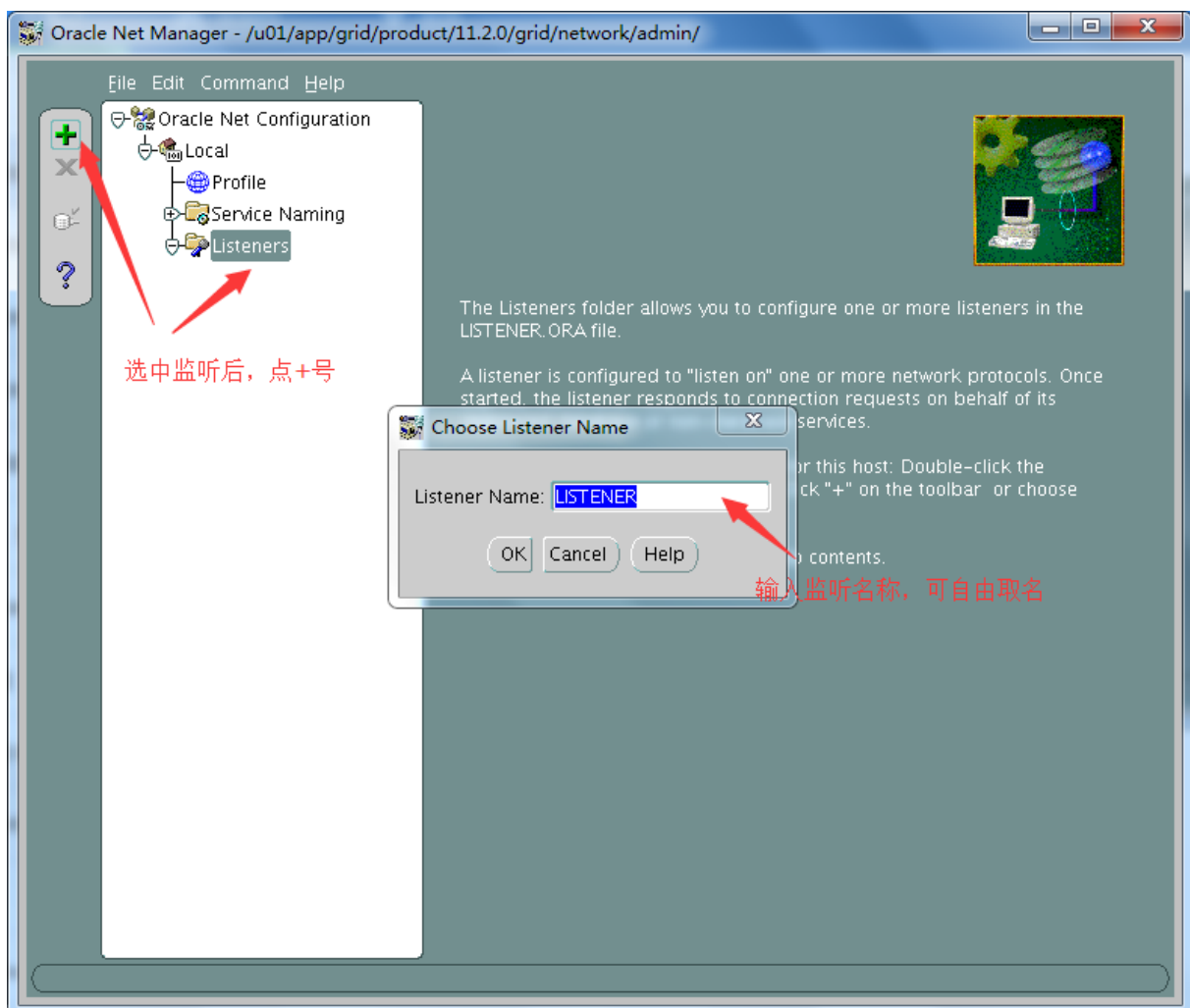
配置静态监听可以使用：netmgr和netca图形工具、lsnrctl命令行工具、EM等。

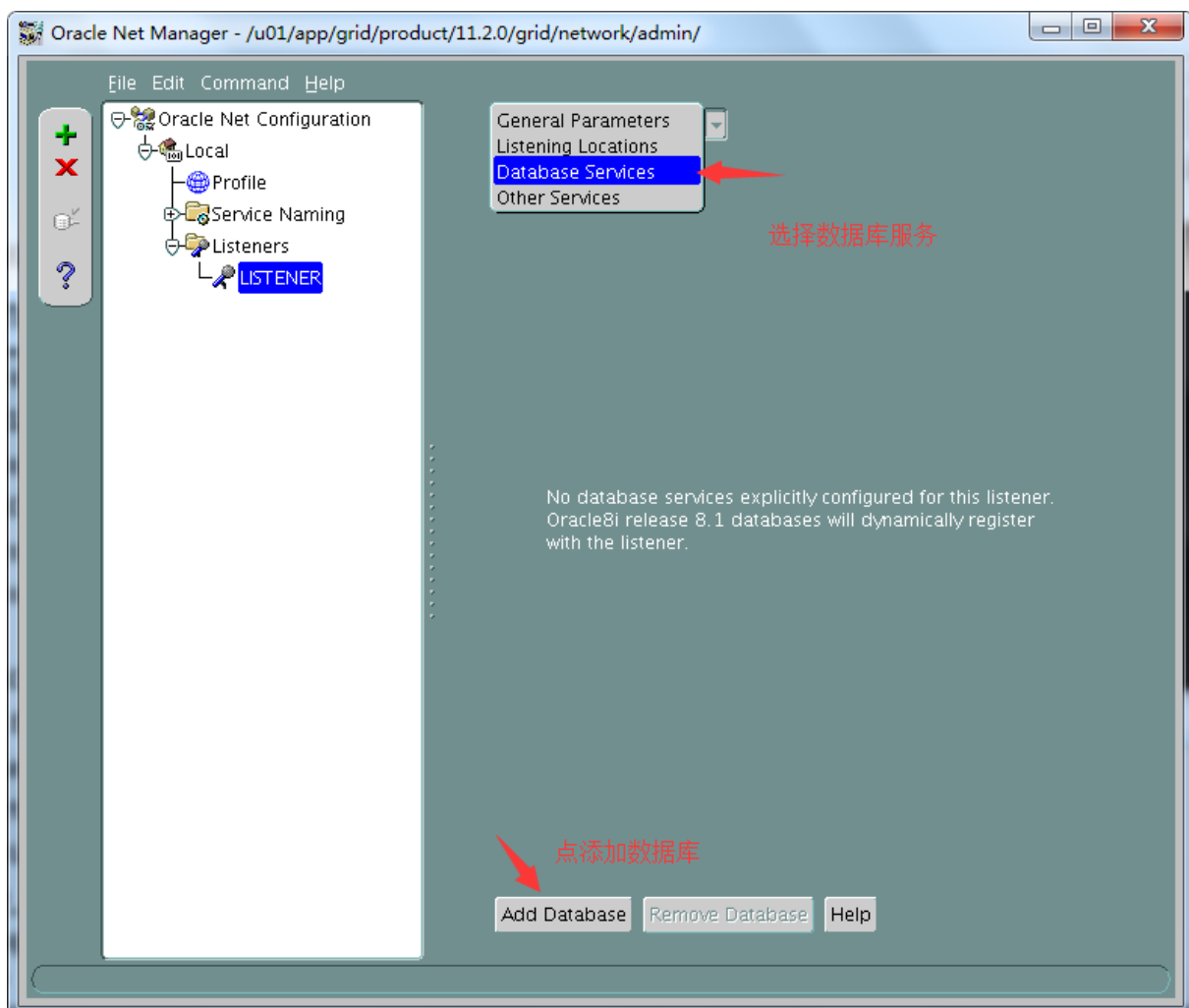
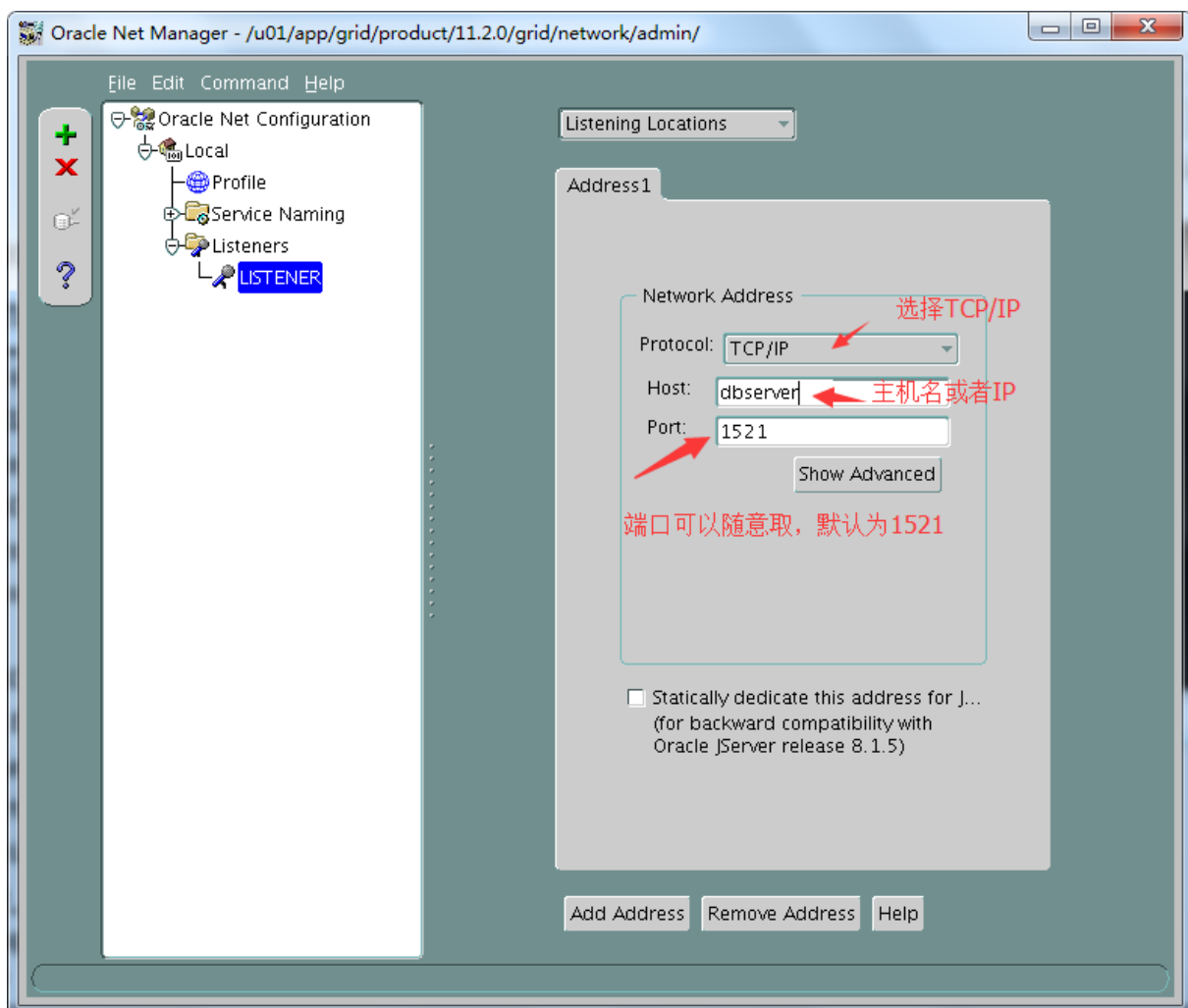
这里我使用netmgr来演示：

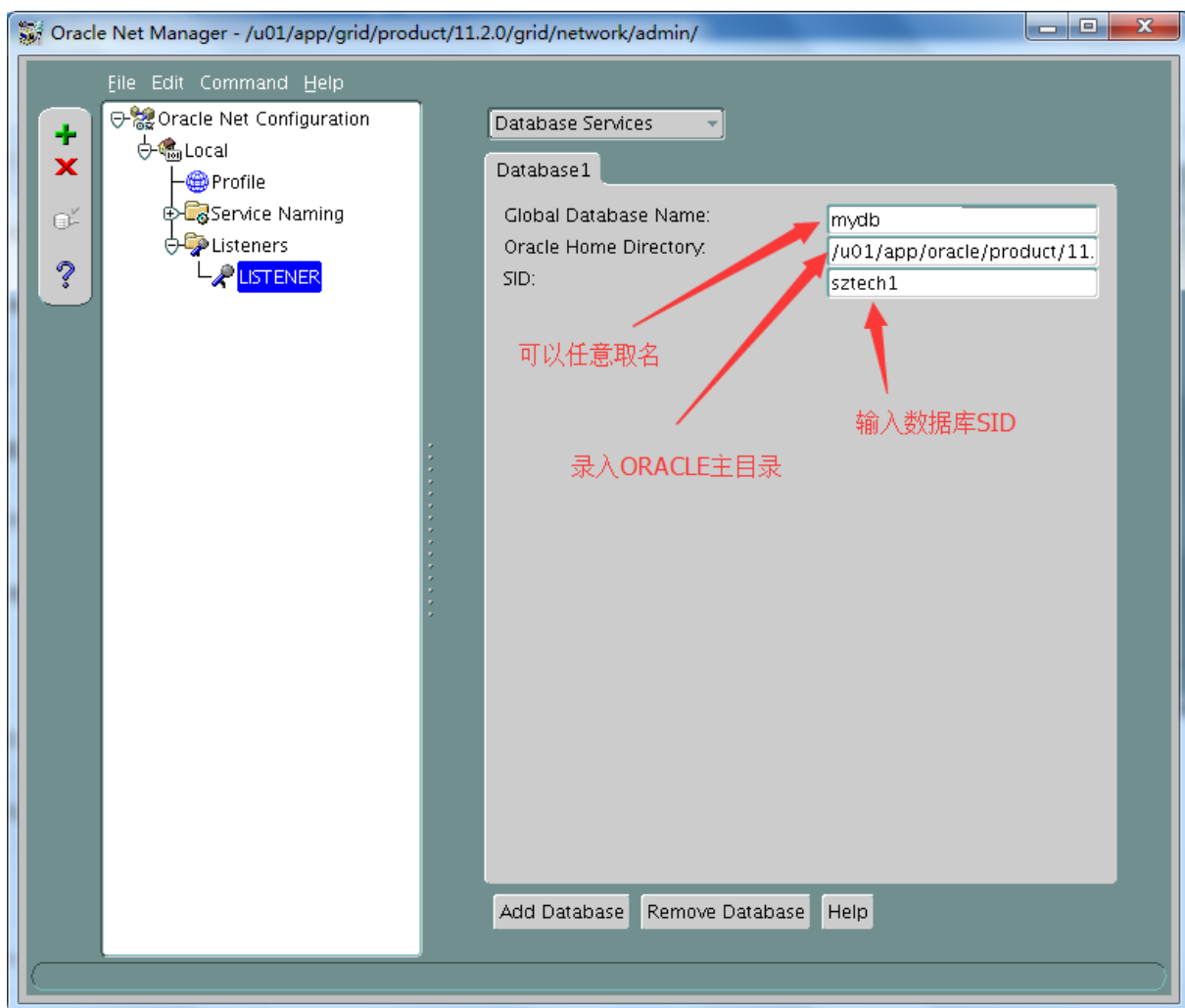
```
[grid@dbserver ~]$ export DISPLAY=192.168.132.1:0.0
```

```
[grid@dbserver ~]$ netmgr
```









【

添加服务步骤可以省略，默认为数据库名。

也可以通过命令来添加服务名：

```
[oracle@dbserver ~]$ srvctl add service -d sztech1 -s sztech2
[oracle@dbserver ~]$
```

或者使用sqlplus来设置服务名：

```
SQL> alter system set service_names='sztech1,sztech2,sztech3,mydb' scope=spfile;
```

System altered.

```
SQL> startup force
```

ORACLE instance started.

Total System Global Area 1603411968 bytes

Fixed Size 2253664 bytes

Variable Size 1006636192 bytes

Database Buffers 587202560 bytes

Redo Buffers 7319552 bytes

Database mounted.

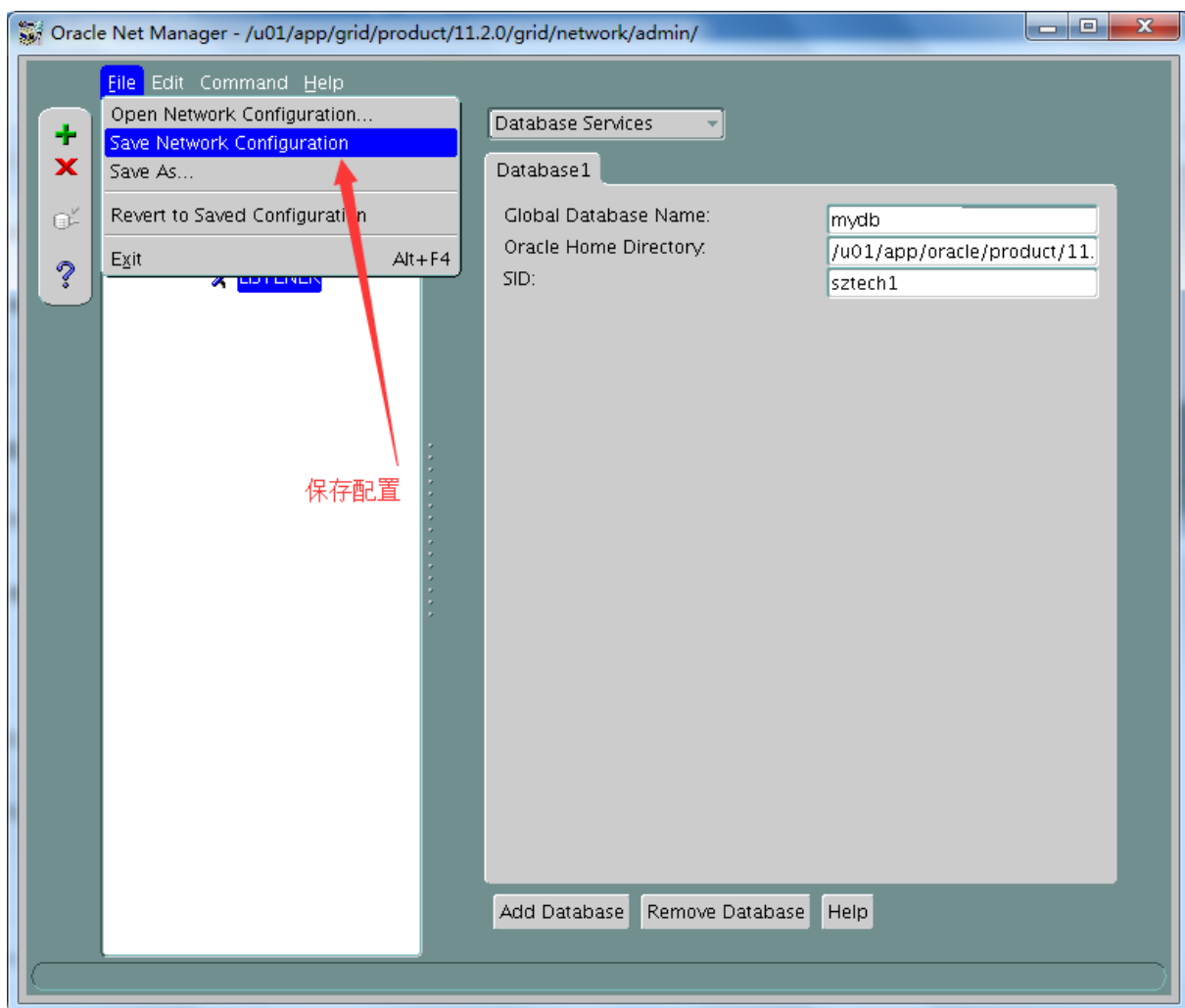
Database opened.

```
SQL> show parameter service_names
```

NAME	TYPE	VALUE
service_names	string	sztech1,sztech2,sztech3,mydb

```
SQL>
```

】



```
[grid@dbserver ~]$ cd /u01/app/grid/product/11.2.0/grid/network/admin/
[grid@dbserver admin]$ ll
total 24
-rw-r--r-- 1 grid oinstall 454 Mar 21 20:45 listener.ora
drwxr-xr-x 2 grid oinstall 4096 Mar 14 00:50 samples
-rw-r--r-- 1 grid oinstall 381 Dec 17 2012 shrept.lst
-rw-r--r-- 1 grid oinstall 215 Mar 14 01:50 sqlnet.ora
[grid@dbserver admin]$ more listener.ora
# listener.ora Network Configuration File: /u01/app/grid/product/11.2.0/grid/network/admin/listener
.ora
# Generated by Oracle configuration tools.
```

```
SID_LIST_LISTENER =
(SID_LIST =
(SID_DESC =
(GLOBAL_DBNAME = mydb)
(ORACLE_HOME = /u01/app/oracle/product/11.2.0/db_1)
(SID_NAME = sztech1)
)
)

LISTENER =
(DESCRIPTION =
(AADDRESS = (PROTOCOL = TCP)(HOST = dbserver)(PORT = 1521))
)
```

```
ADR_BASE_LISTENER = /u01/app/grid
```

```
[grid@dbserver admin]$
```

查看新增服务的监听状态：

```
[grid@dbserver ~]$ lsnrctl
```

LSNRCTL for Linux: Version 11.2.0.4.0 - Production on 21-MAR-2017 21:12:34

Copyright (c) 1991, 2013, Oracle. All rights reserved.

Welcome to LSNRCTL, type "help" for information.

```
LSNRCTL> reload --重新加载监听程序，只对修改的有效，也可以stop后再start
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=dbserver)(PORT=1521)))
The command completed successfully
LSNRCTL> status
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=dbserver)(PORT=1521)))
STATUS of the LISTENER
-----
Alias                LISTENER
Version              TNSLSNR for Linux: Version 11.2.0.4.0 - Production
Start Date           21-MAR-2017 21:00:01
Uptime                0 days 0 hr. 12 min. 41 sec
Trace Level           off
Security              ON: Local OS Authentication
SNMP                 OFF
Listener Parameter File /u01/app/grid/product/11.2.0/grid/network/admin/listener.ora
Listener Log File     /u01/app/grid/diag/tnslsnr/dbserver/listener/alert/log.xml
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=dbserver)(PORT=1521)))
Services Summary...
Service "+ASM" has 1 instance(s).
  Instance "+ASM", status READY, has 1 handler(s) for this service...
Service "mydb" has 1 instance(s).
  Instance "sztech1", status UNKNOWN, has 1 handler(s) for this service... --状态UNKNOWN表示静态监听
Service "sztech1" has 1 instance(s).
  Instance "sztech1", status READY, has 1 handler(s) for this service...
Service "sztech1XDB" has 1 instance(s).
  Instance "sztech1", status READY, has 1 handler(s) for this service...
Service "sztech2" has 2 instance(s).
  Instance "sztech1", status READY, has 1 handler(s) for this service...
  Instance "sztech1", status READY, has 1 handler(s) for this service...
Service "sztech3" has 1 instance(s).
  Instance "sztech1", status READY, has 1 handler(s) for this service...
The command completed successfully
```

对lsnrctl工具的相关操作（执行stop和reload）进行密码认证的方法：

```
LSNRCTL> start --启动监听
Starting /u01/app/oracle/product/11.2.0/db_1/bin/tnslsnr: please wait...
```

```
TNSLSNR for Linux: Version 11.2.0.4.0 - Production
System parameter file is /u01/app/oracle/product/11.2.0/db_1/network/admin/listener.ora
Log messages written to /u01/app/oracle/diag/tnslsnr/dbserver/listener/alert/log.xml
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=dbserver)(PORT=1521)))
```

```
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=dbserver)(PORT=1521)))
STATUS of the LISTENER
-----
```

```
Alias                LISTENER
Version              TNSLSNR for Linux: Version 11.2.0.4.0 - Production
Start Date           10-MAY-2017 22:05:21
Uptime                0 days 0 hr. 0 min. 0 sec
Trace Level           off
Security              ON: Local OS Authentication --安全默认设置为操作系统认证
SNMP                 OFF
Listener Parameter File /u01/app/oracle/product/11.2.0/db_1/network/admin/listener.ora
Listener Log File     /u01/app/oracle/diag/tnslsnr/dbserver/listener/alert/log.xml
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=dbserver)(PORT=1521)))
The listener supports no services
```



```

The command completed successfully
LSNRCTL> change_password      --修改密码
Old password:                 --直接回车
New password:                 --输入密码
Reenter new password:         --重输密码
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=dbserver)(PORT=1521)))
Password changed for LISTENER
The command completed successfully
LSNRCTL> save_config          --保存密码设置
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=dbserver)(PORT=1521)))
Saved LISTENER configuration parameters.
Listener Parameter File  /u01/app/oracle/product/11.2.0/db_1/network/admin/listener.ora
Old Parameter File  /u01/app/oracle/product/11.2.0/db_1/network/admin/listener.bak
The command completed successfully
LSNRCTL> stat                --查看监听状态
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=dbserver)(PORT=1521)))
STATUS of the LISTENER
-----
Alias                LISTENER
Version              TNSLSNR for Linux: Version 11.2.0.4.0 - Production
Start Date           10-MAY-2017 22:05:21
Uptime               0 days 0 hr. 2 min. 29 sec
Trace Level          off
Security             ON: Password or Local OS Authentication  --安全变更为密码和操作系统认证，但先进行操作系统认证
SNMP                 OFF
Listener Parameter File  /u01/app/oracle/product/11.2.0/db_1/network/admin/listener.ora
Listener Log File      /u01/app/oracle/diag/tnlsnr/dbserver/listener/alert/log.xml
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=dbserver)(PORT=1521)))
Services Summary...
Service "sztech1" has 1 instance(s).
  Instance "sztech1", status READY, has 1 handler(s) for this service...
Service "sztech1XDB" has 1 instance(s).
  Instance "sztech1", status READY, has 1 handler(s) for this service...
Service "sztech2" has 1 instance(s).
  Instance "sztech1", status READY, has 1 handler(s) for this service...
Service "sztech3" has 1 instance(s).
  Instance "sztech1", status READY, has 1 handler(s) for this service...
The command completed successfully
LSNRCTL> exit                --退出监听配置工具
[oracle@dbserver admin]$ cd $ORACLE_HOME/network/admin
[oracle@dbserver admin]$ pwd
/u01/app/oracle/product/11.2.0/db_1/network/admin  --进入监听文件目录
[oracle@dbserver admin]$ vi listener.ora
# listener.ora Network Configuration File: /u01/app/oracle/product/11.2.0/db_1/network/admin/
listener.ora
# Generated by Oracle configuration tools.
Local_OS_Authentication_listener=off  --手动增加这一行，表示关闭操作系统认证

LISTENER =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = dbserver)(PORT = 1521))
  )
ADR_BASE_LISTENER = /u01/app/oracle

#----ADDED BY TNSLSNR 10-MAY-2017 22:05:39---
PASSWORDS_LISTENER = 6D7AA003392C436A  --监听文件会增加密码配置信息
#-----

[oracle@dbserver admin]$ lsnrctl  --重新进入监听管理工具

LSNRCTL for Linux: Version 11.2.0.4.0 - Production on 10-MAY-2017 22:14:11

Copyright (c) 1991, 2013, Oracle. All rights reserved.

Welcome to LSNRCTL, type "help" for information.
LSNRCTL> start                --启动监听，会应用配置文件中新增的密码设置
Starting /u01/app/oracle/product/11.2.0/db_1/bin/tnlsnr: please wait...

```

TNSLSNR for Linux: Version 11.2.0.4.0 - Production
System parameter file is /u01/app/oracle/product/11.2.0/db_1/network/admin/listener.ora
Log messages written to /u01/app/oracle/diag/tnslsnr/dbserver/listener/alert/log.xml
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=dbserver)(PORT=1521)))

Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=dbserver)(PORT=1521)))
STATUS of the LISTENER

```
-----
Alias            LISTENER
Version          TNSLSNR for Linux: Version 11.2.0.4.0 - Production
Start Date       10-MAY-2017 22:14:13
Uptime           0 days 0 hr. 0 min. 0 sec
Trace Level      off
Security         ON: Password      --安全配置选项已变更为只通过密码认证
SNMP             OFF
Listener Parameter File /u01/app/oracle/product/11.2.0/db_1/network/admin/listener.ora
Listener Log File  /u01/app/oracle/diag/tnslsnr/dbserver/listener/alert/log.xml
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=dbserver)(PORT=1521)))
The listener supports no services
The command completed successfully
LSNRCTL> stop      --尝试停止监听
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=dbserver)(PORT=1521)))
TNS-01169: The listener has not recognized the password      --报密码未通过认证
LSNRCTL> set password      --通过set password命令进行密码认证
Password:          --输入密码
The command completed successfully
LSNRCTL> stop      --再次尝试停止监听
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=dbserver)(PORT=1521)))
The command completed successfully      --可成功关闭
```

截断监听日志文件：

```
LSNRCTL> stat
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=dbserver)(PORT=1521)))
STATUS of the LISTENER
-----
Alias            LISTENER
Version          TNSLSNR for Linux: Version 11.2.0.4.0 - Production
Start Date       10-MAY-2017 22:36:48
Uptime           0 days 0 hr. 5 min. 26 sec
Trace Level      off
Security         ON: Local OS Authentication
SNMP             OFF
Listener Parameter File /u01/app/oracle/product/11.2.0/db_1/network/admin/listener.ora
Listener Log File  /u01/app/oracle/diag/tnslsnr/dbserver/listener/alert/log.xml      --显示监听日志文件 (xml格式)
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=dbserver)(PORT=1521)))
Services Summary...
Service "sztech1" has 1 instance(s).
  Instance "sztech1", status READY, has 1 handler(s) for this service...
Service "sztech1XDB" has 1 instance(s).
  Instance "sztech1", status READY, has 1 handler(s) for this service...
Service "sztech2" has 1 instance(s).
  Instance "sztech1", status READY, has 1 handler(s) for this service...
Service "sztech3" has 1 instance(s).
  Instance "sztech1", status READY, has 1 handler(s) for this service...
The command completed successfully
LSNRCTL> set log_status off      --关闭监听日志写入日志文件 (有客户在通过监听不断连接服务时, 要先关闭日志写入)
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=dbserver)(PORT=1521)))
LISTENER parameter "log_status" set to OFF
The command completed successfully
LSNRCTL> exit
[oracle@dbserver trace]$ rm -rf $ORACLE_BASE/diag/tnslsnr/dbserver/listener/trace/listener.log      --删除log文件
[oracle@dbserver trace]$ rm -rf $ORACLE_BASE/diag/tnslsnr/dbserver/listener/alert/log.xml      --删除xml文件

LSNRCTL> set log_status on      --再次打开监听日志文件记录
```

Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=dbserver)(PORT=1521)))
LISTENER parameter "log_status" set to ON
The command completed successfully

在linux中可以通过简便方法进行监听日志文件清空：

```
[oracle@dbserver trace]$ > /u01/app/oracle/diag/tnslsnr/dbserver/listener/trace/listener.log
```

```
[oracle@dbserver trace]$ > /u01/app/oracle/diag/tnslsnr/dbserver/listener/alert/log.xml
```

配置 listener.ora 中 ADMIN_RESTRICTIONS 参数：

参数作用：

当在 listener.ora 文件中设置了 ADMIN_RESTRICTIONS 参数后，在监听器运行时，不允许执行任何管理命令，同时 set 命令将不可用，不论是在服务器本地还是从远程执行都不行。此时对于监听的设置仅仅通过手工修改 listener.ora 文件，要使修改生效，只能使用 snrctl reload 命令或 snrctl stop/start 命令重新载入一次监听器配置信息。

修改方法：

在 listener.ora 文件中手动加入下面这样一行

```
ADMIN_RESTRICTIONS_<监听器名> = ON
```

3. sqlnet.ora 介绍

如果使用了 SQLNET.AUTHENTICATION_SERVICES=(NTS)

则说明可以使用 OS 认证就，只要 conn / as sysdba 就可以登陆

但如果注释掉或 SQLNET.AUTHENTICATION_SERVICES=(none)

必须要使用 conn sys/password@Oracle as sysdba 才能登陆

1)、在 windows 下，SQLNET.AUTHENTICATION_SERVICES 必须设置为 NTS 或者 ALL 才能使用 OS 认证；不设置或者设置为其他任何值都不能使用 OS 认证。

2)、在 Linux 下，在 SQLNET.AUTHENTICATION_SERVICES 的值设置为 ALL，或者不设置的情况下，OS 验证才能成功；设置为其他任何值都不能使用 OS 认证。

```
[grid@dbserver admin]$ more sqlnet.ora
```

```
# sqlnet.ora Network Configuration File: /u01/app/grid/product/11.2.0/grid/network/admin/sqlnet.ora
```

```
# Generated by Oracle configuration tools.
```

```
NAMES.DIRECTORY_PATH= (TNSNAMES, EZCONNECT) --首先通过本地命名进行连接和解析，其次通过简易连接。
```

```
#SQLNET.AUTHENTICATION_SERVICES=(ALL) --此处未启动该参数，默认为支持操作系统认证
```

```
ADR_BASE = /u01/app/grid --设置服务器监听相关的诊断和日志目录，默认为$ORACLE_BASE
```

```
[grid@dbserver admin]$
```

4. 命令方法

一般分为简易连接、本地命名、目录命名、外部命名

客户端大都采用本地命名，DBA 一般使用简易连接。

目录命名和外部命名不会经常使用。

1) 简易连接

主机 (IP) : 端口/服务名

例：192.168.132.120 : 1521/sztech1

```
SQL> conn hr/hr@192.168.132.120:1521/sztech1
```

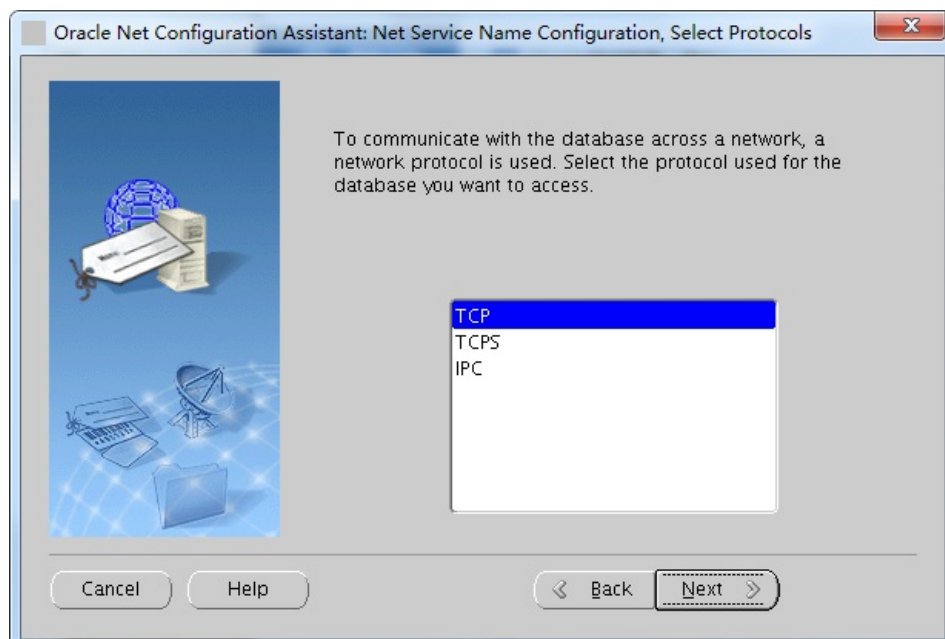
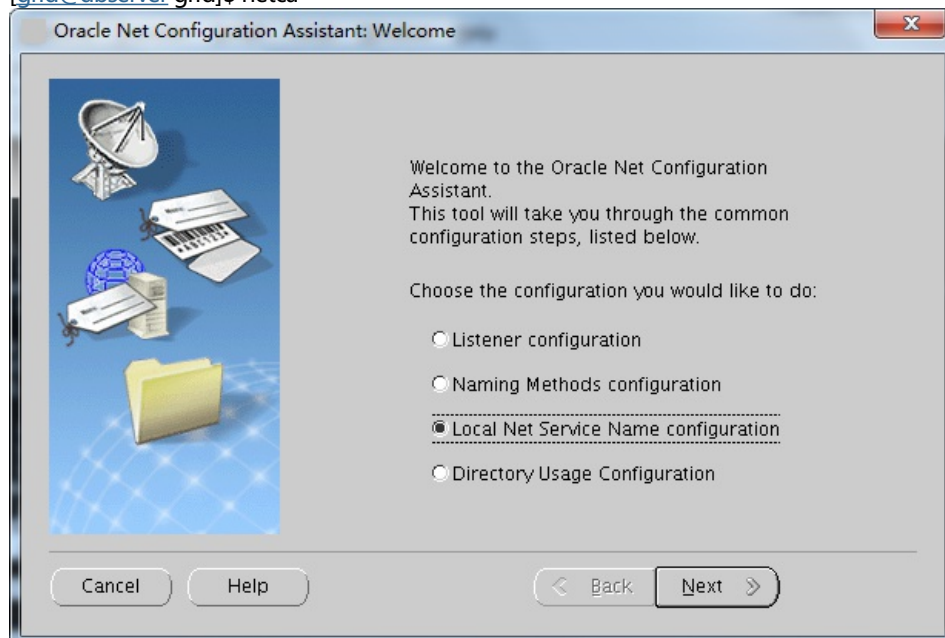
```
Connected.
```

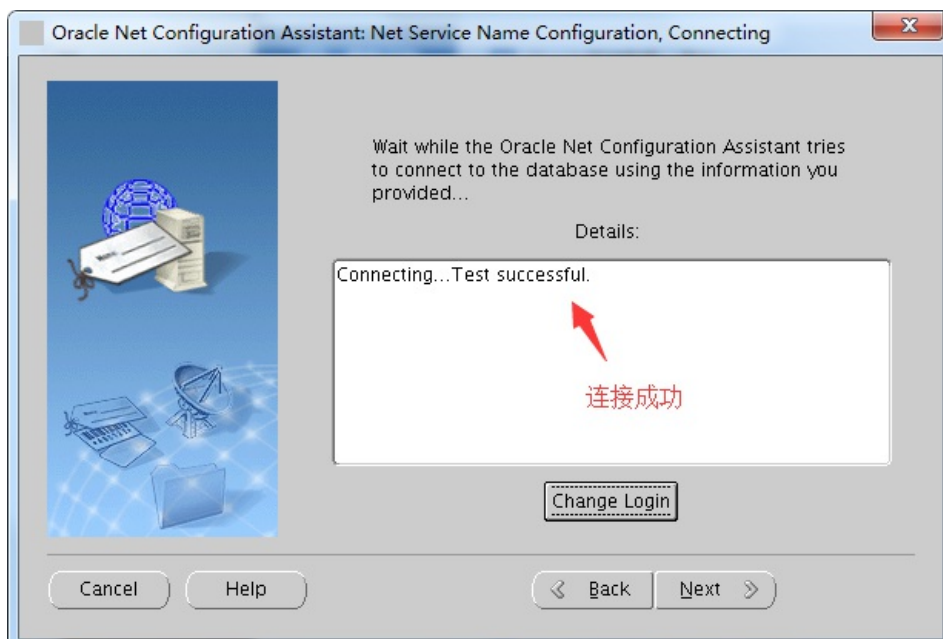
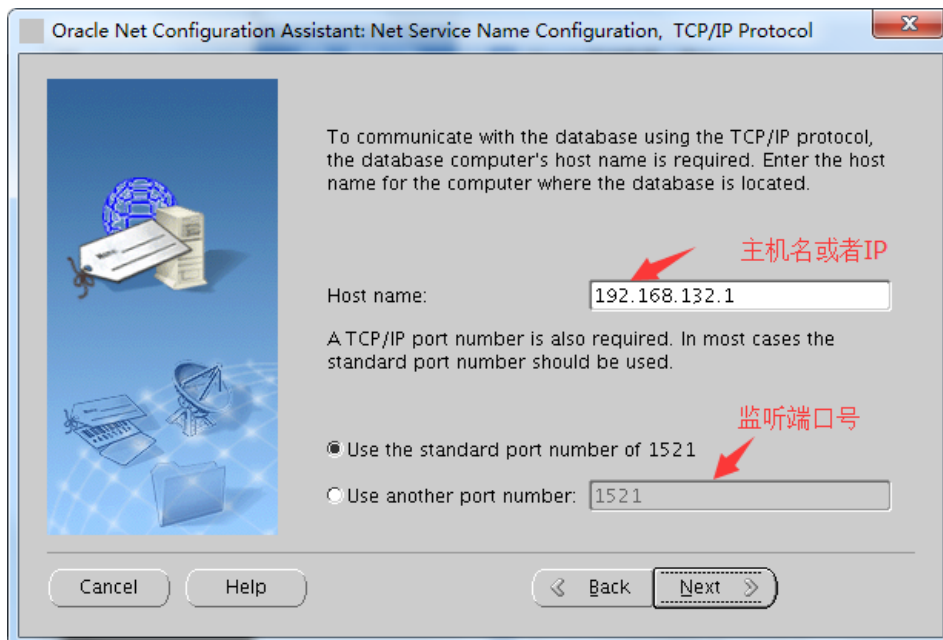
```
SQL>
```

2) 本地命名

可以直接设置 tnsnames.ora 文件，也可以通过配置工具来设置。

[grid@dbserver grid]\$ netca





配置后会在\$ORACLE_HOME/network/admin 中生成tnsnames.ora文件，也可以手工配置该文件。

测试连接：

```
[grid@dbserver grid]$ tnsping orcl
( --tnsping用于连接监听是否连通，但无法检测数据库是否正常打开，即是说能连接监听，但不一定能连接数据库。 )
TNS Ping Utility for Linux: Version 11.2.0.4.0 - Production on 21-MAR-2017 21:32:28
Copyright (c) 1997, 2013, Oracle. All rights reserved.
Used parameter files:
/u01/app/grid/product/11.2.0/grid/network/admin/sqlnet.ora
Used TNSNAMES adapter to resolve the alias
Attempting to contact (DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP)(HOST = 192.168.132.1)(PORT = 1521))) (CONNECT_DATA = (SERVICE_NAME = orcl)))
OK (10 msec)
```

查看之前配置的命名文件内容：

```
[grid@dbserver grid]$ more /u01/app/grid/product/11.2.0/grid/network/admin/tnsnames.ora
# tnsnames.ora Network Configuration File: /u01/app/grid/product/11.2.0/grid/network/admin/tnsnames.ora
# Generated by Oracle configuration tools.
```

```
ORCL =
(DESCRIPTION =
  (ADDRESS_LIST =
    (ADDRESS = (PROTOCOL = TCP)(HOST = 192.168.132.1)(PORT = 1521))
  )
  (CONNECT_DATA =
    (SERVICE_NAME = orcl)
  )
)
```

使用本地命名时限制用户连接超时可以加入下面的内容（如果不限，默认超时时间是60秒）：

```
ORCL =
(DESCRIPTION =
  (TRANSPORT_CONNECT_TIMEOUT=10)
  (TRANSPORT_CONNECT_TIMEOUT=10)
  (ADDRESS_LIST =
    (ADDRESS = (PROTOCOL = TCP)(HOST = 192.168.132.1)(PORT = 1521))
  )
  (CONNECT_DATA =
    (SERVICE_NAME = orcl)
  )
)
```

5.启动/或者关闭监听的其它方法

srvctl命令行

```
[grid@dbserver grid]$ srvctl start listener -h --适用GI环境
Starts the listener.
Usage: srvctl start listener [-l <lsnr_name>]
  -l <lsnr_name>      Listener name
  -h                  Print usage
[grid@dbserver grid]$ srvctl stop listener --关闭监听
[grid@dbserver grid]$ srvctl start listener -l listener --启动监听，-l listener可以省略，默认为listener
[grid@dbserver grid]$ srvctl status listener --查看监听状态
Listener LISTENER is enabled
Listener LISTENER is running on node(s): dbserver
```

EM管理监听：（略）

监听程序: LISTENER_dbserver

监听程序进程的行为和身份不仅由监听端点 ('主机' 和 '端口') 定义, 还由于启动监听程序进程的 "监听程序参数文件" (listener.ora) 定义。"监听程序参数文件" 数。因此, 它的位置对于 EM 唯一标识 "监听程序目标" 是必需的。

主目录性能所服务的数据库

一般信息



状态 启动

可用性 (%) 99
(前 24 小时)

别名 LISTENER

版本 11.2.0.4.0

Oracle 主目录 /u01/app/grid/product/11.2.0/grid

网络地址 (ADDRESS=(PROTOCOL=TCP)(HOST=dbserver)(PORT=1521))

LISTENER.ORA 位置 /u01/app/grid/product/11.2.0/grid/network/admin

启动时间 2017-3-21 21:00:01

主机 dbserver

Oracle Restart 启用

编辑 停止 封锁

状态

TNS 试通 (毫秒) ✓ 0
每分钟建立的连接 5.81
每分钟拒绝的连接 0

违反策略

当前 5 3 0 违反的不同规则 3 3 0 兼容性分数 (%) 91 策略趋势概览