

PRACTICAS.

NET. COMUNICACIONES.

1. Consultar el valor de los parámetros de inicialización SERVICE_NAMES e INSTANCE_NAME. Averiguar el valor de DB_NAME y DB_DOMAIN.

```
/home/CURSO/curso69 (CURSO69)> sqlplus /nolog
SQL*Plus: Release 10.2.0.2.0 - Production on Tue Jan 30 19:05:31 2007
Copyright (c) 1982, 2005, Oracle. All Rights Reserved.
```

```
SQL> connect / as sysdba;
Connected.
```

```
SQL> show parameter instance_name
```

NAME	TYPE	VALUE
instance_name	string	CURSO69

```
SQL> show parameter service_name
```

NAME	TYPE	VALUE
service_names	string	CURSO69

```
SQL> show parameter db_name
```

NAME	TYPE	VALUE
db_name	string	CURSO69

```
SQL> show parameter db_domain
```

NAME	TYPE	VALUE
db_domain	string	

2. ¿Cuál es el valor de la variable TNS_ADMIN?. ¿En que directorio residen los ficheros de configuración de Net? (listener.ora, sqlnet.ora y tnsnames.ora). Asegurarse de que la variable de entorno TNS_ADMIN apunte al directorio \$ORACLE_HOME/network/admin/CURSOxx ; si no es así, debe editarse el perfil de usuario, localizado en el directorio “home” y modificar su definición.

```
/home/CURSO/curso69 (CURSO69)> echo $TNS_ADMIN
```

Los ficheros de configuración residen habitualmente en “/u01/app/oracle/product/10.2.0.1/network/admin”. En nuestro caso se ha habilitado un directorio específico para cada uno de los cursos de nombre “/u01/app/oracle/product/10.2.0.1/network/admin/CURSOxx”.

Editar el fichero .bash_profile e introducir los cambios necesarios:

```
/home/CURSO/curso69 (CURSO69)> vi .bash_profile
```

```
...  
# TNS.  
export TNS_ADMIN=$ORACLE_HOME/network/admin/CURSO69  
...
```

Se comprueba el valor de la variable y el contenido del directorio.

```
/home/CURSO/curso69 (CURSO69)> echo $TNS_ADMIN  
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69
```

```
/home/CURSO/curso69 (CURSO69)> cd $TNS_ADMIN  
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> ls -al  
total 36  
drwxrwxr-x  2 oracle dba 4096 ene 30 20:01 .  
drwxrwxr-x 24 oracle dba 4096 ene 30 18:50 ..  
-rwxrwxr-x  1 oracle dba  539 ene 30 20:01 listener.ora  
-rwxrwxr-x  1 oracle dba 8512 ene 30 18:55 tnsnames.ora
```

3. ¿Dónde se guardan los ficheros de log del “listener”? ¿Y los de traza?.

Los ficheros de “log” residen habitualmente en “/u01/app/oracle/product/10.2.0.1/network/log” y los de traza en “/u01/app/oracle/product/10.2.0.1/network/trace”.

En nuestro caso se han habilitado sendos directorios específicos para cada uno de los cursos de nombre “/u01/app/oracle/product/10.2.0.1/network/log/CURSOxx” y “/u01/app/oracle/product/10.2.0.1/network/trace/CURSOxx” respectivamente.

Entre los parámetros de control indicados al “listener” deberán indicarse los nuevos directorios de traza y de “log” (`log_directory_<nombre_listener>`, `log_file_<nombre_listener>`, `trace_directory_<nombre_listener>` y `trace_file_<nombre_listener>`).

Asimismo, indicaremos los nuevos ficheros de “log”, `listener69.log`, y de traza, `listener69.trc`.

```
/home/CURSO/curso69 (CURSO69)> ls -al
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69
total 8
drwxrwxr-x  2 oracle dba 4096 ene 30 19:27 .
drwxrwxr-x 23 oracle dba 4096 ene 30 19:27 ..
```

```
/home/CURSO/curso69 (CURSO69)> ls -al
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69
total 8
drwxrwxr-x  2 oracle dba 4096 ene 30 20:21 .
drwxrwxr-x 23 oracle dba 4096 ene 30 19:00 ..
```

4. Editar el fichero `listener.ora` y verificar la configuración inicial. Indicar los nuevos directorios de traza y de “log”, así como los nuevos nombres de ficheros de log y traza (`listenerxx.log` y `listenerxx.trc`). Indicar igualmente un nivel de traza exhaustivo (nivel 16).

Se configurará el “listenerxx” sólo con la parte correspondiente a la sección de protocolo.

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> cat
listener.ora
```

```
log_directory_listener69=/u01/app/oracle/product/10.2.0.1/network/log/CURSO69
log_file_listener69=listener69.log
trace_directory_listener69=/u01/app/oracle/product/10.2.0.1/network/trace/CURS
O69
trace_file_listener69=listener69.trc
trace_level_listener69=16
```

```
CONNECT_TIMEOUT_LISTENER=10
```

```
LISTENER69 =
  (ADDRESS_LIST =
    (ADDRESS = (PROTOCOL = IPC)(KEY = CURSO69))
    (ADDRESS = (PROTOCOL = TCP)(HOST = cursos.atika.um.es)(PORT = 1526))
```

)

`TRACE_LEVEL_LISTENER = OFF`

5. Arrancar el “listener” definido por defecto. ¿Se produce algún error?, ¿por qué?.

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl
start listener69
```

```
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 31-JAN-2007 20:16:49
Copyright (c) 1991, 2005, Oracle. All rights reserved.
```

```
Starting /u01/app/oracle/product/10.2.0.1/bin/tnlsnr: please wait...
```

```
TNSLSNR for Linux: Version 10.2.0.2.0 - Production
```

```
System parameter file is
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
```

```
Log messages written to
```

```
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log
```

```
Trace information written to
```

```
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/listener69.trc
```

```
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))
```

```
Listening on:
```

```
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atika.um.es)(PORT=1526)))
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))
```

```
STATUS of the LISTENER
```

```
-----
```

```
Alias                listener69
```

```
Version              TNSLSNR for Linux: Version 10.2.0.2.0 - Production
```

```
Start Date           31-JAN-2007 20:16:51
```

```
Uptime               0 days 0 hr. 0 min. 0 sec
```

```
Trace Level          support
```

```
Security              ON: Local OS Authentication
```

```
SNMP                 OFF
```

```
Listener Parameter File
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
```

```
Listener Log File
```

```
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log
```

```
Listener Trace File
```

```
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/listener69.trc
```

```
Listening Endpoints Summary...
```

```
(DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))
```

```
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))  
The listener supports no services  
The command completed successfully
```

6. Comprobar el estado del “listener” arrancado. ¿Tiene algún servicio asociado?.

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl  
status listener69
```

```
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 30-JAN-2007 20:24:46
```

```
Copyright (c) 1991, 2005, Oracle. All rights reserved.
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))  
STATUS of the LISTENER
```

```
-----
```

```
Alias                listener69  
Version              TNSLSNR for Linux: Version 10.2.0.2.0 - Production  
Start Date           30-JAN-2007 20:22:32  
Uptime               0 days 0 hr. 2 min. 13 sec  
Trace Level          off  
Security             ON: Local OS Authentication  
SNMP                 OFF  
Listener              Parameter              File  
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora  
Listener              Log                      File  
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log  
Listening Endpoints Summary...  
(DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))  
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))  
The listener supports no services  
The command completed successfully
```

Por defecto, tras instalar la bd, el “listener” espera y acepta conexiones por el puerto 1521. Sin embargo, es posible reconfigurarlo -como es nuestro caso- para usar un puerto distinto. Son necesarios dos pasos: configurar el “listener”, lo hecho hasta ahora, y configurar la bd para registrar con el nuevo puerto del “listener”.

Debe editarse el fichero “tnsnames.ora” añadiendo:

```
listener_curso69 =  
(DESCRIPTION =  
(ADDRESS = (PROTOCOL = TCP)(HOST = cursos.atica.um.es)
```

(PORT = 1526)))

Una vez hecho debe indicarse:

“ALTER SYSTEM SET LOCAL_LISTENER='listener_curso69' SCOPE=BOTH”

También es posible hacerlo a través del fichero de parámetros de inicialización.

7. Configurar el registro automático del “listenerxx” a través del fichero de parámetros de inicialización.

Debe pararse normalmente la bd y modificar el fichero de parámetros añadiendo la variable LOCAL_LISTENER:

```
/u01/app/oracle/admin/CURSO69/pfile (CURSO69)> vi initCURSO69.ora  
db_name=CURSO69
```

```
...
```

```
remote_login_passwordfile=EXCLUSIVE
```

```
LOCAL_LISTENER = "(ADDRESS =  
(PROTOCOL=TCP)(HOST=cursos.atica.um.es)(PORT=1526))"
```

```
~
```

```
~
```

```
"initCURSO69.ora" 25L, 760C escritos
```

Se para el listener69, se arranca de nuevo y se arranca la bd:

```
/u01/app/oracle/admin/CURSO69/pfile (CURSO69)> lsnrctl stop listener69  
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 30-JAN-2007 21:06:41  
Copyright (c) 1991, 2005, Oracle. All rights reserved.
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))  
The command completed successfully
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl  
start listener69
```

```
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 31-JAN-2007 20:19:00
```

Copyright (c) 1991, 2005, Oracle. All rights reserved.

Starting /u01/app/oracle/product/10.2.0.1/bin/tnlsnr: please wait...

TNSLSNR for Linux: Version 10.2.0.2.0 - Production

System parameter file is

/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora

Log messages written to

/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log

Trace information written to

/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/listener69.trc

Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))

Listening on:

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))

Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))

STATUS of the LISTENER

Alias listener69

Version TNSLSNR for Linux: Version 10.2.0.2.0 - Production

Start Date 31-JAN-2007 20:19:00

Uptime 0 days 0 hr. 0 min. 0 sec

Trace Level support

Security ON: Local OS Authentication

SNMP OFF

Listener Parameter File

/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora

Listener Log File

/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log

Listener Trace File

/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/listener69.trc

Listening Endpoints Summary...

(DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))

The listener supports no services

The command completed successfully

/u01/app/oracle/admin/CURSO69/pfile (CURSO69)> sqlplus /nolog

SQL*Plus: Release 10.2.0.2.0 - Production on Tue Jan 30 21:06:54 2007

Copyright (c) 1982, 2005, Oracle. All Rights Reserved.

SQL> connect / as sysdba;

Connected to an idle instance.

SQL> startup

ORACLE instance started.

```
Total System Global Area 100663296 bytes
Fixed Size                1259384 bytes
Variable Size             62916744 bytes
Database Buffers         33554432 bytes
Redo Buffers              2932736 bytes
Database mounted.
Database opened.
SQL> exit
Disconnected from Oracle Database 10g Enterprise Edition Release 10.2.0.2.0 -
Production
With the Partitioning and Data Mining options
```

Se comprueba el estado de listener69 para averiguar si ha tenido lugar el registro automático. Se observa que se han registrado ciertos servicios.

```
/u01/app/oracle/admin/CURSO69/pfile (CURSO69)> lsnrctl status listener69
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 30-JAN-2007 21:07:20
Copyright (c) 1991, 2005, Oracle. All rights reserved.
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))
STATUS of the LISTENER
```

```
-----
Alias                listener69
Version              TNSLSNR for Linux: Version 10.2.0.2.0 - Production
Start Date           30-JAN-2007 21:06:47
Uptime               0 days 0 hr. 0 min. 32 sec
Trace Level          off
Security              ON: Local OS Authentication
SNMP                 OFF
Listener Parameter File
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
Listener Log File
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log
Listener Trace File
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/listener69.trc
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atca.um.es)(PORT=1526)))
Services Summary...
Service "CURSO69" has 1 instance(s).
  Instance "CURSO69", status READY, has 1 handler(s) for this service...
Service "CURSO69_XPT" has 1 instance(s).
  Instance "CURSO69", status READY, has 1 handler(s) for this service...
```


The command completed successfully

8. Comprobar a nivel de s.o. el proceso asociados al “listener”. Matar el proceso y esperar unos minutos, ¿rearranca por sí solo?.

```
/u01/app/oracle/admin/CURSO69/pfile (CURSO69)> cd
/home/CURSO/curso69 (CURSO69)> ps -ef|grep listener69
curso69      11973          1    0  21:06  ?                00:00:00
/u01/app/oracle/product/10.2.0.1/bin/tnslsnr listener69 -inherit
curso69 12106 11667 0 21:20 pts/5  00:00:00 grep listener69
```

```
/home/CURSO/curso69 (CURSO69)> kill -9 11973
```

```
/home/CURSO/curso69 (CURSO69)> ps -ef|grep listener69
curso69 12113 11667 0 21:20 pts/5  00:00:00 grep listener69
```

```
/home/CURSO/curso69 (CURSO69)> ps -ef|grep listener69
curso69 12122 11667 0 21:21 pts/5  00:00:00 grep listener69
```

```
/home/CURSO/curso69 (CURSO69)> ps -ef|grep listener69
curso69 12138 11667 0 21:22 pts/5  00:00:00 grep listener69
```

9. Arrancar el “listener” y comprobar a nivel de s.o. si existe algún proceso asociado al mismo.

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl
start listener69
```

LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 31-JAN-2007 20:22:19

Copyright (c) 1991, 2005, Oracle. All rights reserved.

Starting /u01/app/oracle/product/10.2.0.1/bin/tnslsnr: please wait...

TNSLSNR for Linux: Version 10.2.0.2.0 - Production

```
System          parameter                file                is
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
Log             messages                 written            to
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log
Trace          information              written            to
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/listener69.trc
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))
```

```
Listening on:
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))
STATUS of the LISTENER
```

```
Alias                listener69
Version              TNSLSNR for Linux: Version 10.2.0.2.0 - Production
Start Date           31-JAN-2007 20:22:19
Uptime               0 days 0 hr. 0 min. 0 sec
Trace Level          support
Security              ON: Local OS Authentication
SNMP                 OFF
Listener              Parameter              File
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
Listener              Log                      File
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log
Listener              Trace                    File
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/listener69.trc
```

```
Listening Endpoints Summary...
```

```
(DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))
```

```
The listener supports no services
```

```
The command completed successfully
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> ps -ef |
grep listener69
curso69 25488 1 0 20:22 ? 00:00:00
/u01/app/oracle/product/10.2.0.1/bin/tnslsnr listener69 -inherit
curso69 25505 24895 0 20:24 pts/1 00:00:00 grep listener69
```

10. Se observa que al arrancar el “listener” inicialmente no soporta servicios, comprobar si transcurrido un tiempo desde su arranque PMON ha registrado los servicios correspondientes a la bd. ¿Cuánto ha tardado aproximadamente?.

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl
status listener69
```

```
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 31-JAN-2007 20:25:39
```

```
Copyright (c) 1991, 2005, Oracle. All rights reserved.
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))
```

STATUS of the LISTENER

```

Alias                listener69
Version              TNSLSNR for Linux: Version 10.2.0.2.0 - Production
Start Date          31-JAN-2007 20:22:19
Uptime              0 days 0 hr. 3 min. 20 sec
Trace Level         support
Security            ON: Local OS Authentication
SNMP                OFF
Listener            Parameter                                File
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
Listener            Log                                    File
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log
Listener            Trace                                    File
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/listener69.trc
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))
Services Summary...
Service "CURSO69" has 1 instance(s).
  Instance "CURSO69", status READY, has 1 handler(s) for this service...
Service "CURSO69_XPT" has 1 instance(s).
  Instance "CURSO69", status READY, has 1 handler(s) for this service...
The command completed successfully
    
```

11. En las operaciones realizadas hasta el momento, ¿se ha generado algún fichero de “log” y/o traza asociados a la operación del “listenerxx”?

```

/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> ls -al
../../log/CURSO69
total 24
drwxrwxr-x  2 oracle dba 4096 ene 31 20:26 .
drwxrwxr-x 23 oracle dba 4096 ene 31 19:07 ..
-rw-r--r--  1 curso69 dba 13269 ene 31 20:25 listener69.log
    
```

```

/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> ls -al
../../trace/CURSO69
total 224
drwxrwxr-x  2 oracle dba 4096 ene 31 20:16 .
drwxrwxr-x 23 oracle dba 4096 ene 30 19:27 ..
-rw-r--r--  1 curso69 dba 215910 ene 31 20:25 listener69.trc
    
```

12. Parar y arrancar el listenerxx (tanto de forma directa como a través del menú “lsnrctl”).

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl stop listener69
```

```
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 31-JAN-2007 20:27:55
```

```
Copyright (c) 1991, 2005, Oracle. All rights reserved.
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))
```

```
The command completed successfully
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl start listener69
```

```
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 31-JAN-2007 20:28:04
```

```
Copyright (c) 1991, 2005, Oracle. All rights reserved.
```

```
Starting /u01/app/oracle/product/10.2.0.1/bin/tnslsnr: please wait...
```

```
TNSLSNR for Linux: Version 10.2.0.2.0 - Production
```

```
System parameter file is
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
Log messages written to
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log
Trace information written to
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/listener69.trc
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))
Listening on:
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))
```

```
STATUS of the LISTENER
```

```
-----
```

```
Alias listener69
Version TNSLSNR for Linux: Version 10.2.0.2.0 - Production
Start Date 31-JAN-2007 20:28:04
Uptime 0 days 0 hr. 0 min. 0 sec
Trace Level support
Security ON: Local OS Authentication
SNMP OFF
Listener Parameter File
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
```

```
Listener                               Log                               File
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log
Listener                               Trace                            File
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/listener69.trc
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atika.um.es)(PORT=1526)))
The listener supports no services
The command completed successfully
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl
```

```
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 31-JAN-2007 20:28:34
```

```
Copyright (c) 1991, 2005, Oracle. All rights reserved.
```

```
Welcome to LSNRCTL, type "help" for information.
```

```
LSNRCTL> stop listener69
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))
```

```
The command completed successfully
```

```
LSNRCTL> start listener69
```

```
Starting /u01/app/oracle/product/10.2.0.1/bin/tnslsnr: please wait...
```

```
TNSLSNR for Linux: Version 10.2.0.2.0 - Production
```

```
System                parameter                file                is
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
```

```
Log                    messages                written            to
```

```
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log
```

```
Trace                  information                written            to
```

```
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/listener69.trc
```

```
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))
```

```
Listening                                                    on:
```

```
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atika.um.es)(PORT=1526)))
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))
```

```
STATUS of the LISTENER
```

```
-----
```

```
Alias                listener69
```

```
Version              TNSLSNR for Linux: Version 10.2.0.2.0 - Production
```

```
Start Date           31-JAN-2007 20:28:46
```

```
Uptime               0 days 0 hr. 0 min. 0 sec
```

```
Trace Level          support
```

```
Security              ON: Local OS Authentication
```

```
SNMP                 OFF
```

```

Listener                               Parameter                               File
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
Listener                               Log                                    File
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log
Listener                               Trace                                  File
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/listener69.trc
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))
The listener supports no services
The command completed successfully

LSNRCTL> exit
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)>

```

13. Comprobar el estado de funcionamiento del “listener” tras su arranque.

```

/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl
status listener69

```

LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 31-JAN-2007 20:29:41

Copyright (c) 1991, 2005, Oracle. All rights reserved.

```

Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))
STATUS of the LISTENER
-----

```

```

Alias                listener69
Version              TNSLSNR for Linux: Version 10.2.0.2.0 - Production
Start Date           31-JAN-2007 20:28:46
Uptime               0 days 0 hr. 0 min. 55 sec
Trace Level          support
Security             ON: Local OS Authentication
SNMP                 OFF

```

```

Listener                               Parameter                               File
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
Listener                               Log                                    File
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log
Listener                               Trace                                  File
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/listener69.trc
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))
Services Summary...

```

```
Service "CURSO69" has 1 instance(s).
Instance "CURSO69", status READY, has 1 handler(s) for this service...
Service "CURSO69_XPT" has 1 instance(s).
Instance "CURSO69", status READY, has 1 handler(s) for this service...
The command completed successfully
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)>
```

14. Estando arrancado el listenerxx, parar y arrancar la instancia de bd. Comprobar si sigue existiendo el proceso correspondiente al listenerxx. Arrancar la bd.

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl
status listener69
```

```
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 31-JAN-2007 20:30:32
Copyright (c) 1991, 2005, Oracle. All rights reserved.
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))
STATUS of the LISTENER
```

```
-----
```

```
Alias                listener69
Version              TNSLSNR for Linux: Version 10.2.0.2.0 - Production
Start Date           31-JAN-2007 20:28:46
Uptime               0 days 0 hr. 1 min. 45 sec
Trace Level          support
Security             ON: Local OS Authentication
SNMP                 OFF
Listener             Parameter           File
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
Listener             Log                 File
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log
Listener             Trace               File
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/listener69.trc
```

```
Listening Endpoints Summary...
```

```
(DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))
```

```
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atika.um.es)(PORT=1526)))
```

```
Services Summary...
```

```
Service "CURSO69" has 1 instance(s).
```

```
Instance "CURSO69", status READY, has 1 handler(s) for this service...
```

```
Service "CURSO69_XPT" has 1 instance(s).
```

```
Instance "CURSO69", status READY, has 1 handler(s) for this service...
```

```
The command completed successfully
```

Se para la bd.

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> sqlplus  
/nolog
```

```
SQL*Plus: Release 10.2.0.2.0 - Production on Wed Jan 31 20:30:37 2007
```

```
Copyright (c) 1982, 2005, Oracle. All Rights Reserved.
```

```
SQL> connect / as sysdba;  
Connected.  
SQL> shutdown immediate  
Database closed.  
Database dismounted.  
ORACLE instance shut down.
```

Se comprueba el estado del listenerxx. Sigue existiendo pero No hay servicios asociados.

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl  
status listener69
```

```
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 31-JAN-2007 20:32:07
```

```
Copyright (c) 1991, 2005, Oracle. All rights reserved.
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))  
STATUS of the LISTENER
```

```
-----
```

```
Alias                listener69  
Version              TNSLSNR for Linux: Version 10.2.0.2.0 - Production  
Start Date           31-JAN-2007 20:28:46  
Uptime               0 days 0 hr. 3 min. 20 sec  
Trace Level          support  
Security             ON: Local OS Authentication  
SNMP                 OFF  
Listener             Parameter            File  
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora  
Listener             Log                  File  
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log  
Listener             Trace                File  
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/listener69.trc  
Listening Endpoints Summary...  
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))  
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atika.um.es)(PORT=1526)))  
The listener supports no services  
The command completed successfully
```


15. ¿Se generan ficheros de “log” como consecuencia de las anteriores operaciones con el “listener”? Ver el contenido de los ficheros de traza y apuntes de log generados.

En el fichero de log, listenerxx.log:

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> tail -50
../log/CURSO69/listener69.log
No longer listening on:
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atika.um.es)(PORT=1526)))
Listener completed notification to CRS on stop
31-JAN-2007 20:27:55 *
(CONNECT_DATA=(CID=(PROGRAM=)(HOST=cursos.atika.um.es)(USER=curso69))(COMM
AND=stop)(ARGUMENTS=64)(SERVICE=listener69)(VERSION=169869824)) * stop * 0
```

TNSLSNR for Linux: Version 10.2.0.2.0 - Production on 31-JAN-2007 20:28:04

Copyright (c) 1991, 2005, Oracle. All rights reserved.

```
System parameter file is
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
Log messages written to
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/listener69.log
Trace information written to
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/listener69.trc
Trace level is currently 16
```

Started with pid=25532

Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))

Listening on:

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atika.um.es)(PORT=1526)))

Listener completed notification to CRS on start

TIMESTAMP * CONNECT DATA [* PROTOCOL INFO] * EVENT [* SID] * RETURN CODE

31-JAN-2007 20:28:04 *

(CONNECT_DATA=(CID=(PROGRAM=)(HOST=cursos.atika.um.es)(USER=curso69))(COMM
AND=status)(ARGUMENTS=64)(SERVICE=listener69)(VERSION=169869824)) * status * 0

No longer listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))

No longer listening on:

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atika.um.es)(PORT=1526)))

Listener completed notification to CRS on stop

31-JAN-2007

20:28:40

*

```
(CONNECT_DATA=(CID=(PROGRAM=)(HOST=cursos.atica.um.es)(USER=curso69))(COMM  
AND=stop)(ARGUMENTS=64)(SERVICE=listener69)(VERSION=169869824)) * stop * 0
```

En el fichero de traza, listenerxx.trc:

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> tail -50  
../trace/CURSO69/listener69.trc  
[31-JAN-2007 20:32:07:193] nspsend: 00 40          |.@    |  
[31-JAN-2007 20:32:07:193] nspsend: 10 bytes to transport  
[31-JAN-2007 20:32:07:193] nspsend: normal exit  
[31-JAN-2007 20:32:07:193] nsdofls: exit (0)  
[31-JAN-2007 20:32:07:193] nsbfr: entry  
[31-JAN-2007 20:32:07:193] nsbaddfl: entry  
[31-JAN-2007 20:32:07:193] nsbaddfl: normal exit  
[31-JAN-2007 20:32:07:193] nsbfr: normal exit  
[31-JAN-2007 20:32:07:193] nsbfr: entry  
[31-JAN-2007 20:32:07:193] nsbaddfl: entry  
[31-JAN-2007 20:32:07:193] nsbaddfl: normal exit  
[31-JAN-2007 20:32:07:193] nsbfr: normal exit  
[31-JAN-2007 20:32:07:193] nsdo: nsctxrnk=0  
[31-JAN-2007 20:32:07:193] nsdo: normal exit  
[31-JAN-2007 20:32:07:193] nsiocancel: entry  
[31-JAN-2007 20:32:07:193] nsiofrrg: entry  
[31-JAN-2007 20:32:07:193] nsbfr: entry  
[31-JAN-2007 20:32:07:193] nsbaddfl: entry  
[31-JAN-2007 20:32:07:193] nsbaddfl: normal exit  
[31-JAN-2007 20:32:07:193] nsbfr: normal exit  
[31-JAN-2007 20:32:07:193] nsiofrrg: exit  
[31-JAN-2007 20:32:07:193] nsiocancel: exit  
[31-JAN-2007 20:32:07:193] nsclose: closing transport  
[31-JAN-2007 20:32:07:193] ntusdisc: entry  
[31-JAN-2007 20:32:07:193] ntusdisc: Closed socket 13  
[31-JAN-2007 20:32:07:193] ntusdisc: exit  
...
```

16. Modificar el “listener” de forma que se generen los ficheros de log en el fichero:

```
“/u01/app/oracle/product/10.2.0.1.0/network/log/CURSO69/fichero_listenerxx.l  
og”
```

y el de traza en

```
“/u01/app/oracle/product/10.2.0.1.0/network/trace/CURSO69/fichero_listenerx  
x.trc”.
```

Se modifica el fichero listener.ora

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> vi  
listener.ora  
log_directory_listener69=/u01/app/oracle/product/10.2.0.1/network/log/CURSO69  
log_file_listener69=fichero_listener69.log  
trace_directory_listener69=/u01/app/oracle/product/10.2.0.1/network/trace/CURS  
O69  
trace_file_listener69=fichero_listener69.trc  
trace_level_listener69=16  
  
CONNECT_TIMEOUT_LISTENER=10  
...
```

Se recarga el listener y se comprueba su estado

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl  
reload listener69
```

```
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 31-JAN-2007 20:40:01  
Copyright (c) 1991, 2005, Oracle. All rights reserved.  
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))  
The command completed successfully
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl  
status listener69
```

```
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 31-JAN-2007 20:42:35
```

```
Copyright (c) 1991, 2005, Oracle. All rights reserved.
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))  
STATUS of the LISTENER
```

```
-----  
Alias                listener69  
Version              TNSLSNR for Linux: Version 10.2.0.2.0 - Production  
Start Date           31-JAN-2007 20:28:46  
Uptime               0 days 0 hr. 13 min. 48 sec  
Trace Level          support  
Security              ON: Local OS Authentication  
SNMP                 OFF
```

Listener Parameter File

/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora

Listener Log File

/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/fichero_listener69.log

Listener Trace File

/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/fichero_listener69.trc

Listening Endpoints Summary...

(DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))

Services Summary...

Service "CURSO69" has 1 instance(s).

Instance "CURSO69", status READY, has 1 handler(s) for this service...

Service "CURSO69_XPT" has 1 instance(s).

Instance "CURSO69", status READY, has 1 handler(s) for this service...

The command completed successfully

17. Comprobar que el "listener" genera los ficheros de log en el lugar indicado.

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> ls -al  
../../log/CURSO69
```

total 32

drwxrwxr-x 2 oracle dba 4096 ene 31 20:40 .

drwxrwxr-x 23 oracle dba 4096 ene 31 19:07 ..

-rw-r--r-- 1 curso69 dba 1253 ene 31 20:42 fichero_listener69.log

-rw-r--r-- 1 curso69 dba 16840 ene 31 20:40 listener69.log

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> ls -al  
../../trace/CURSO69
```

total 684

drwxrwxr-x 2 oracle dba 4096 ene 31 20:40 .

drwxrwxr-x 23 oracle dba 4096 ene 30 19:27 ..

-rw-r--r-- 1 curso69 dba 266519 ene 31 20:42 fichero_listener69.trc

-rw-r--r-- 1 curso69 dba 412860 ene 31 20:40 listener69.trc

18. Crear un fichero de sentencias que permita obtener el estado del "listener", pararlo y arrancarlo de nuevo. Revisar el tamaño del fichero de "log" del "listener" y mostrar el proceso correspondiente al mismo. Ejecutar dicho fichero. Volver a comprobar el tamaño del fichero de "log" del "listener" y a mostrar su proceso asociado; ¿ha variado el tamaño del fichero?, ¿cuál es la fecha del proceso?.

Editar un fichero llamado “parametros_listener” con vi. Tendrá el siguiente contenido:

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> vi
parametros_listener
status listener69
stop listener69
start listener69
```

```
~
~
"parametros_listener" [Nuevo] 3L, 51C escritos
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> ls -al
../..../log/CURSO69/fichero*
-rw-r--r-- 1 curso69 dba 1253 ene 31 20:42 ../..../log/CURSO69/fichero_listener69.log
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> ps -ef|grep
listener69
curso69 25542 1 0 20:28 ? 00:00:00
/u01/app/oracle/product/10.2.0.1/bin/tnslsnr listener69 -inherit
curso69 25734 24895 0 20:48 pts/1 00:00:00 grep listener69
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl
@parametros_listener
```

LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 31-JAN-2007 20:49:02

Copyright (c) 1991, 2005, Oracle. All rights reserved.

Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))

STATUS of the LISTENER

```
Alias                listener69
Version              TNSLSNR for Linux: Version 10.2.0.2.0 - Production
Start Date           31-JAN-2007 20:28:46
Uptime               0 days 0 hr. 20 min. 15 sec
Trace Level          support
Security             ON: Local OS Authentication
SNMP                 OFF
Listener Parameter File
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
Listener Log File
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/fichero_listener69.log
```

Listener Trace File

/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/fichero_listener69.trc

Listening Endpoints Summary...

(DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))

Services Summary...

Service "CURSO69" has 1 instance(s).

Instance "CURSO69", status READY, has 1 handler(s) for this service...

Service "CURSO69_XPT" has 1 instance(s).

Instance "CURSO69", status READY, has 1 handler(s) for this service...

The command completed successfully

Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))

The command completed successfully

Starting /u01/app/oracle/product/10.2.0.1/bin/tnslsnr: please wait...

TNSLSNR for Linux: Version 10.2.0.2.0 - Production

System parameter file is

/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora

Log messages written to

/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/fichero_listener69.log

Trace information written to

/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/fichero_listener69.trc

Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))

Listening on:

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))

Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))

STATUS of the LISTENER

Alias listener69

Version TNSLSNR for Linux: Version 10.2.0.2.0 - Production

Start Date 31-JAN-2007 20:49:02

Uptime 0 days 0 hr. 0 min. 0 sec

Trace Level support

Security ON: Local OS Authentication

SNMP OFF

Listener Parameter File

/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora

Listener Log File

/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/fichero_listener69.log

Listener Trace File

/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/fichero_listener69.trc

Listening Endpoints Summary...

(DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))

The listener supports no services

The command completed successfully

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> ls -al  
../log/CURSO69/fichero*  
-rw-r--r-- 1 curso69 dba 2762 ene 31 20:49 ../log/CURSO69/fichero_listener69.log
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> ps -ef|grep  
listener69  
curso69 25743 1 0 20:49 ? 00:00:00  
/u01/app/oracle/product/10.2.0.1/bin/tnslnr listener69 -inherit  
curso69 25750 24895 0 20:49 pts/1 00:00:00 grep listener69
```

20. Comprobar el contenido del fichero de log.

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> tail -25  
../log/CURSO69/fichero_listener69.log  
31-JAN-2007 20:42:33 * service_update * CURSO69 * 0  
31-JAN-2007 20:42:35 *  
(CONNECT_DATA=(CID=(PROGRAM=)(HOST=cursos.atika.um.es)(USER=curso69))(COMM  
AND=status)(ARGUMENTS=64)(SERVICE=listener69)(VERSION=169869824)) * status * 0  
31-JAN-2007 20:49:02 *  
(CONNECT_DATA=(CID=(PROGRAM=)(HOST=cursos.atika.um.es)(USER=curso69))(COMM  
AND=status)(ARGUMENTS=64)(SERVICE=listener69)(VERSION=169869824)) * status * 0  
No longer listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))  
No longer listening on:  
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atika.um.es)(PORT=1526)))  
Listener completed notification to CRS on stop  
31-JAN-2007 20:49:02 *  
(CONNECT_DATA=(CID=(PROGRAM=)(HOST=cursos.atika.um.es)(USER=curso69))(COMM  
AND=stop)(ARGUMENTS=64)(SERVICE=listener69)(VERSION=169869824)) * stop * 0
```

TNSLSNR for Linux: Version 10.2.0.2.0 - Production on 31-JAN-2007 20:49:02

Copyright (c) 1991, 2005, Oracle. All rights reserved.

System parameter file is

/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora

Log messages written to

/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/fichero_listener69.log

Trace information written to

/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/fichero_listener69.trc

Trace level is currently 16

Started with pid=25743

Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))

Listening on:

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))

Listener completed notification to CRS on start

TIMESTAMP * CONNECT DATA [* PROTOCOL INFO] * EVENT [* SID] * RETURN CODE

31-JAN-2007 20:49:02 *

(CONNECT_DATA=(CID=(PROGRAM=)(HOST=cursos.atica.um.es)(USER=curso69))(COMM
AND=status)(ARGUMENTS=64)(SERVICE=listener69)(VERSION=169869824)) * status * 0

31-JAN-2007 20:50:02 * service_register * CURSO69 * 0

21. Obtener información sobre los servicios e instancias registradas, y los manejadores asociados a cada instancia (lsnrctl services).

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl  
services listener69
```

LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 31-JAN-2007 20:51:35

Copyright (c) 1991, 2005, Oracle. All rights reserved.

Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))

Services Summary...

Service "CURSO69" has 1 instance(s).

Instance "CURSO69", status READY, has 1 handler(s) for this service...

Handler(s):

"DEDICATED" established:0 refused:0 state:ready

LOCAL SERVER

Service "CURSO69_XPT" has 1 instance(s).

Instance "CURSO69", status READY, has 1 handler(s) for this service...

Handler(s):

"DEDICATED" established:0 refused:0 state:ready

LOCAL SERVER

The command completed successfully

22. Configurar el fichero sqlnet.ora de forma que se use un modelo no centralizado para resolver los identificadores (NAMES.DIRECTORY_PATH) y que sean eliminadas las sesiones que permanezcan inactivas más de cinco minutos. Configurar también los directorios de "log" y traza de forma que apunten respectivamente a:

```
/u01/app/oracle/product/10.2.0.1/network/log/CURSOXX
```


`/u01/app/oracle/product/10.2.0.1/network/trace/CURSOXX`

y el fichero de “log” sea “sqlnetxx.log”.

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> cat
sqlnet.ora
NAMES.DIRECTORY_PATH=(ezconnect, tnsnames)
sqlnet.expire_time=300
LOG_DIRECTORY_SERVER=/u01/app/oracle/product/10.2.0.1/network/log/CURSO69
LOG_FILE_SERVER=sqlnet69.log
TRACE_DIRECTORY_SERVER=/u01/app/oracle/product/10.2.0.1/network/trace/CURS
O69
```

23. Añadir al fichero tnsnames.ora un nombre de servicio que permita conectar a la bd propia con la bd CURSO72.

La bd está creada, existe un fichero listener.ora donde se ha definido un “listener72” que escucha por el puerto 1572 y en el fichero de inicializacion se ha añadido el parámetro LOCAL_LISTENER correspondiente a este .

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO72 (CURSO72)> cat
listener.ora
log_directory_listener72=/u01/app/oracle/product/10.2.0.1/network/log/CURSO72
log_file_listener72=fichero_listener72.log
trace_directory_listener72=/u01/app/oracle/product/10.2.0.1/network/trace/CURS
O72
trace_file_listener72=fichero_listener72.trc
trace_level_listener72=16
```

```
LISTENER72 =
  (ADDRESS_LIST =
    (ADDRESS = (PROTOCOL = IPC)(KEY = CURSO72))
    (ADDRESS = (PROTOCOL = TCP)(HOST = cursos.atika.um.es)(PORT = 1572))
  )
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO72 (CURSO72)> lsnrctl
status listener72
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 02-FEB-2007 16:04:23
Copyright (c) 1991, 2005, Oracle. All rights reserved.
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO72))
```

STATUS of the LISTENER

```
-----  
Alias                listener72  
Version              TNSLSNR for Linux: Version 10.2.0.2.0 - Production  
Start Date           01-FEB-2007 11:37:39  
Uptime               1 days 4 hr. 26 min. 43 sec  
Trace Level          support  
Security             ON: Local OS Authentication  
SNMP                 OFF  
Listener Parameter File  
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO72/listener.ora  
Listener Log File  
/u01/app/oracle/product/10.2.0.1/network/log/CURSO72/fichero_listener72.log  
Listener Trace File  
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO72/fichero_listener72.trc  
Listening Endpoints Summary...  
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO72)))  
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1572)))  
Services Summary...  
Service "CURSO72" has 1 instance(s).  
  Instance "CURSO72", status READY, has 1 handler(s) for this service...  
Service "CURSO72_XPT" has 1 instance(s).  
  Instance "CURSO72", status READY, has 1 handler(s) for this service...  
The command completed successfully
```

Se incluirá en el tnsnames.ora de nuestro cliente (cursoxx) la siguiente definición (fijese en el puerto, coincide con el puerto donde escuchará el "listener" de la máquina destino que sirve a la bd CURSO72):

```
CURSO72 =  
  (DESCRIPTION =  
    (ADDRESS_LIST =  
      (ADDRESS = (PROTOCOL = TCP)(Host = cursos.atica.um.es)(Port = 1572))  
    )  
    (CONNECT_DATA =  
      (SERVICE_NAME = CURSO72)  
    )  
  )
```

24. Conectarse como usuario system a la bd propia y hacerlo igualmente a la bd remota usando el descriptor CURSO72 definido en el fichero tnsnames.ora

```
SQL> connect system  
Enter password:
```

Connected.

SQL> show parameters instance_name

NAME	TYPE	VALUE
instance_name	string	CURSO69

SQL> connect system@CURSO72

Enter password:

Connected.

SQL> show parameters instance_name

NAME	TYPE	VALUE
instance_name	string	CURSO72

25. Conectarse como usuario system a la bd propia y crear un database link publico que permita conectar a la bd CURSO72, como system igualmente. Comprobar que se ha creado correctamente consultando la vista "dba_db_links". Realizar una consulta sobre la vista "dba_db_links" de la bd remota.

SQL> connect system

Enter password:

Connected.

SQL> show parameters instance_name

NAME	TYPE	VALUE
instance_name	string	CURSO69

SQL> create public database link dl_curso72 using 'CURSO72';

Database link created.

SQL> select * from dba_db_links

OWNER	DB_LINK	USERNAME	HOST	CREATED
PUBLIC	DL_CURSO72	CURSO72		02-FEB-07

```
SQL> show user  
USER is "SYSTEM"
```

```
SQL> select * from dba_db_links@dl_curso72;  
select * from dba_db_links@dl_curso72  
*
```

```
ERROR at line 1:  
ORA-01017: invalid username/password; logon denied  
ORA-02063: preceding line from DL_CURSO72
```

Esto sucede porque las claves de usuario en ambas bases de datos son distintas. Se modifica la clave del usuario system, de forma que sean iguales -en curso72 es la clave "manager" - y se abre una nueva sesión.

```
SQL> alter user system identified by manager;  
User altered.
```

```
/home/CURSO/curso69 (CURSO69)> sqlplus  
SQL*Plus: Release 10.2.0.2.0 - Production on Fri Feb 2 17:01:56 2007  
Copyright (c) 1982, 2005, Oracle. All Rights Reserved.
```

```
Enter user-name: system  
Enter password:
```

```
Connected to:  
Oracle Database 10g Enterprise Edition Release 10.2.0.2.0 - Production  
With the Partitioning and Data Mining options
```

```
SQL> select * from dba_db_links@dl_curso72;  
no rows selected
```

Una vez hecho el ejercicio debe restablecerse la clave original de system.

```
SQL> alter user system identified by systcurso69;  
User altered.
```

En la base de datos remota debe existir, por supuesto, un "listener" escuchando las peticiones y arrancado, se trata de nuestro listener72:

```
/u01/app/oracle/admin/CURSO72/pfile (CURSO72)> lsnrctl status listener72  
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 02-FEB-2007 17:02:58  
Copyright (c) 1991, 2005, Oracle. All rights reserved.
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO72))  
STATUS of the LISTENER
```

```
-----  
Alias                listener72  
Version              TNSLSNR for Linux: Version 10.2.0.2.0 - Production  
Start Date           01-FEB-2007 11:37:39  
Uptime               1 days 5 hr. 25 min. 18 sec  
Trace Level          support  
Security             ON: Local OS Authentication  
SNMP                 OFF  
Listener             Parameter                               File  
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO72/listener.ora  
Listener             Log                                       File  
/u01/app/oracle/product/10.2.0.1/network/log/CURSO72/fichero_listener72.log  
Listener             Trace                                  File  
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO72/fichero_listener72.trc  
Listening Endpoints Summary...  
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO72)))  
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1572)))  
Services Summary...  
Service "CURSO72" has 1 instance(s).  
  Instance "CURSO72", status READY, has 1 handler(s) for this service...  
Service "CURSO72_XPT" has 1 instance(s).  
  Instance "CURSO72", status READY, has 1 handler(s) for this service...  
The command completed successfully
```

Es interesante fijarse en que el "domain name" se obtiene del valor GLOBAL_NAME de la bd, o, más bien, del valor de GLOBAL_NAME en el momento de creación del dblink (así, si se modifica GLOBAL_NAME, no se renombra ningún dblink existente con anterioridad). Más información en la nota 115499.1 y en el ejemplo siguiente:

```
SQL> select db_link from user_db_links;
```

```
DB_LINK
```

```
-----  
LOOPBACK.US.ORACLE.COM  
MYLINK.US.ORACLE.COM
```

```
SQL> select * from global_name;
```

```
GLOBAL_NAME
```

```
-----  
V920.US.ORACLE.COM
```

```
SQL> alter database rename global_name to V920.WORLD;
```

```
Database altered.
```

```
SQL> select * from global_name;
```

```
GLOBAL_NAME
```

```
-----  
V920.WORLD
```

```
SQL> create database link loopback2 connect to scott identified by tiger using  
'loopback';
```

```
Database link created.
```

```
SQL> select db_link from user_db_links;
```

```
DB_LINK
```

```
-----  
LOOPBACK.US.ORACLE.COM  
LOOPBACK2.WORLD  
MYLINK.US.ORACLE.COM
```

25. Conectarse como usuario "scott". Realizar una consulta de la tabla "dept" usando el enlace creado anteriormente.

```
SQL> connect scott
```

```
Enter password:
```

```
Connected.
```

```
SQL> set pause on
```

```
SQL> select * from dept@dl_curso72;
```

```
DEPTNO DNAME      LOC  
-----  
10 ACCOUNTING   NEW YORK
```

20 RESEARCH DALLAS
30 SALES CHICAGO
40 OPERATIONS BOSTON

En caso de que no exista el usuario "SCOTT" realizar las siguientes operaciones:

- *cd \$ORACLE_HOME/rdbms/admin*
- *Conectar a sqlplus como usuario "sysdba"*

/u01/app/oracle/product/.../rdbms/admin (CURSO10)> sqlplus /nolog

SQL> connect / as sysdba;

- *Ejecutar "utlsampl.sql"*

SQL> @utlsampl.sql

26. Crear un database link privado para el usuario "scott". Realizar una consulta de la tabla "dept" del usuario "scott" de la bd remota, empleando dicho dblink privado.

SQL> show user
USER is "SCOTT"

SQL> create database link dl_scott_curso72 connect to scott identified by tiger using 'CURSO72';
create database link dl_scott_curso72 connect to scott identified by tiger using 'CURSO72'

ERROR at line 1:
ORA-01031: insufficient privileges

SQL> connect system
Enter password:
Connected.

SQL> grant create database link to scott;
Grant succeeded.

SQL> connect scott

Enter password:

Connected.

SQL> create database link dl_scott_curso72 connect to scott identified by tiger using 'CURSO72';

Database link created.

*SQL> select * from dept@dl_scott_curso72;*

<i>DEPTNO</i>	<i>DNAME</i>	<i>LOC</i>
<i>10</i>	<i>ACCOUNTING</i>	<i>NEW YORK</i>
<i>20</i>	<i>RESEARCH</i>	<i>DALLAS</i>
<i>30</i>	<i>SALES</i>	<i>CHICAGO</i>
<i>40</i>	<i>OPERATIONS</i>	<i>BOSTON</i>

27. Crear un database link público llamado dl_scott_curso22. ¿Es posible?, ¿qué privilegio se requiere?.

SQL> connect scott

Enter password:

Connected.

SQL> create public database link dl_pscott_curso72 using 'CURSO72';

create public database link dl_pscott_curso72 using 'CURSO72'

ERROR at line 1:

ORA-01031: insufficient privileges

28. Cambiar el nombre de fichero listener.log sin parar el “listener”. Debe crearse un nuevo “log” llamado nuevolog_listener01.log.

/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl

LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 02-FEB-2007 17:30:33

Copyright (c) 1991, 2005, Oracle. All rights reserved.

Welcome to LSNRCTL, type "help" for information.

LSNRCTL> set current_listener listener69

Current Listener is listener69

LSNRCTL> set log_file nuevolog_listener69


```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))
listener69 parameter "log_file" set to nuevolog_listener69.log
The command completed successfully
LSNRCTL> exit
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl
status listener69
```

```
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 02-FEB-2007 17:32:00
Copyright (c) 1991, 2005, Oracle. All rights reserved.
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))
STATUS of the LISTENER
```

```
-----
Alias                listener69
Version              TNSLSNR for Linux: Version 10.2.0.2.0 - Production
Start Date           31-JAN-2007 20:49:02
Uptime               1 days 20 hr. 42 min. 58 sec
Trace Level          support
Security             ON: Local OS Authentication
SNMP                 OFF
Listener             Parameter                               File
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
Listener             Log                                       File
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/nuevolog_listener69.log
Listener             Trace                                       File
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/fichero_listener69.trc
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))
Services Summary...
Service "CURSO69" has 1 instance(s).
  Instance "CURSO69", status READY, has 1 handler(s) for this service...
Service "CURSO69_XPT" has 1 instance(s).
  Instance "CURSO69", status READY, has 1 handler(s) for this service...
The command completed successfully
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)>
```

Se crea así un nuevo "log" llamado nuevolog_listener69.log. El antiguo fichero de "log" permanece hasta ser borrado o renombrado. El "listener" continuará escribiendo en el nuevo fichero hasta su rearranque.

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> ls -al
../log/CURSO69
total 60
drwxrwxr-x 2 oracle dba 4096 feb 2 17:31 .
drwxrwxr-x 24 oracle dba 4096 ene 31 21:10 ..
-rw-r--r-- 1 curso69 dba 24530 feb 2 17:30 fichero_listener69.log
-rw-r--r-- 1 curso69 dba 16840 ene 31 20:40 listener69.log
-rw-r--r-- 1 curso69 dba 212 feb 2 17:32 nuevolog_listener69.log
-rw-r--r-- 1 oracle dba 1520 feb 2 16:39 sqlnet69.log
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl stop
listener69
```

```
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 02-FEB-2007 17:34:12
Copyright (c) 1991, 2005, Oracle. All rights reserved.
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))
The command completed successfully
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> lsnrctl
start listener69
```

```
LSNRCTL for Linux: Version 10.2.0.2.0 - Production on 02-FEB-2007 17:34:22
Copyright (c) 1991, 2005, Oracle. All rights reserved.
Starting /u01/app/oracle/product/10.2.0.1/bin/tnslsnr: please wait...
```

```
TNSLSNR for Linux: Version 10.2.0.2.0 - Production
System parameter file is
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
Log messages written to
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/fichero_listener69.log
Trace information written to
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/fichero_listener69.trc
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))
Listening on:
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))
```

```
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=CURSO69))
STATUS of the LISTENER
```

```
-----
Alias                listener69
Version              TNSLSNR for Linux: Version 10.2.0.2.0 - Production
Start Date           02-FEB-2007 17:34:22
Uptime               0 days 0 hr. 0 min. 0 sec
Trace Level          support
```

```
Security          ON: Local OS Authentication
SNMP              OFF
Listener Parameter File
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69/listener.ora
Listener Log File
/u01/app/oracle/product/10.2.0.1/network/log/CURSO69/fichero_listener69.log
Listener Trace File
/u01/app/oracle/product/10.2.0.1/network/trace/CURSO69/fichero_listener69.trc
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=CURSO69)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cursos.atica.um.es)(PORT=1526)))
The listener supports no services
The command completed successfully
```

```
/u01/app/oracle/product/10.2.0.1/network/admin/CURSO69 (CURSO69)> ls -al
../..../log/CURSO69
total 64
drwxrwxr-x  2 oracle dba 4096 feb  2 17:31 .
drwxrwxr-x 24 oracle dba 4096 ene 31 21:10 ..
-rw-r--r--  1 curso69 dba 25469 feb  2 17:34 fichero_listener69.log
-rw-r--r--  1 curso69 dba 16840 ene 31 20:40 listener69.log
-rw-r--r--  1 curso69 dba  606 feb  2 17:34 nuevolog_listener69.log
-rw-r--r--  1 oracle dba 1520 feb  2 16:39 sqlnet69.log
```