

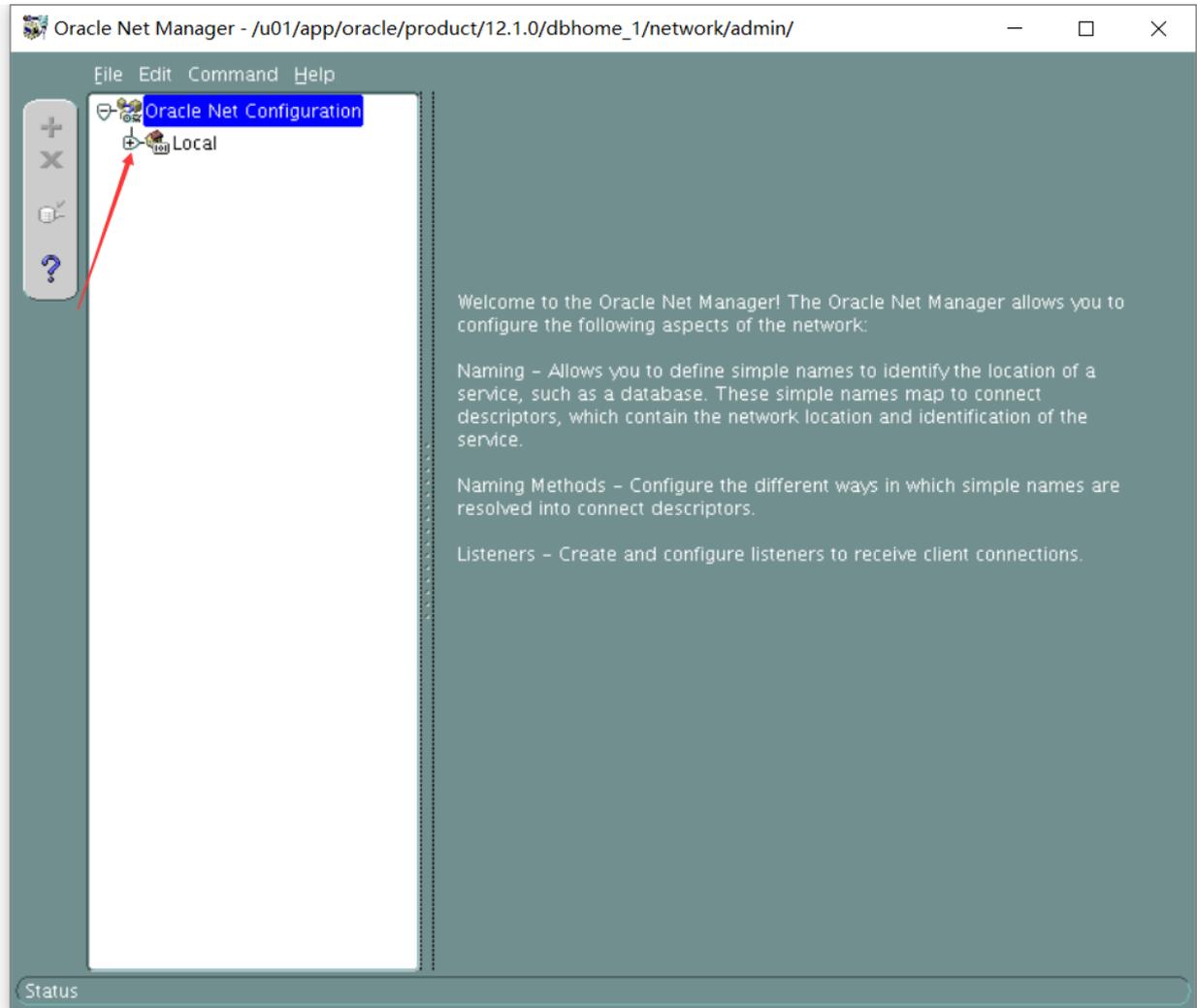
1 使用netmgr配置

1.1 配置监听器

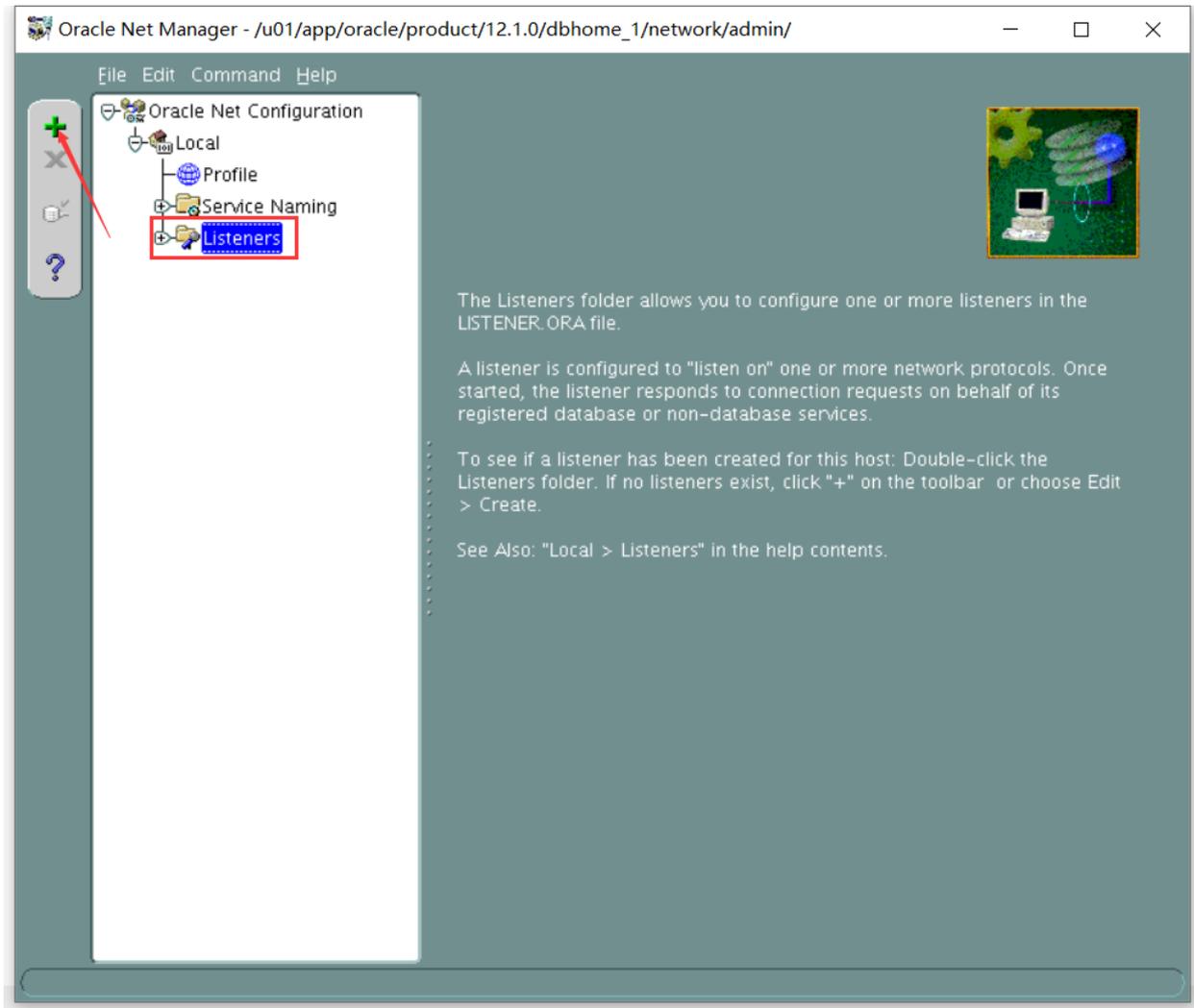
1) 命令行执行netmgr命令

```
[oracle@strong ~]$ netmgr
```

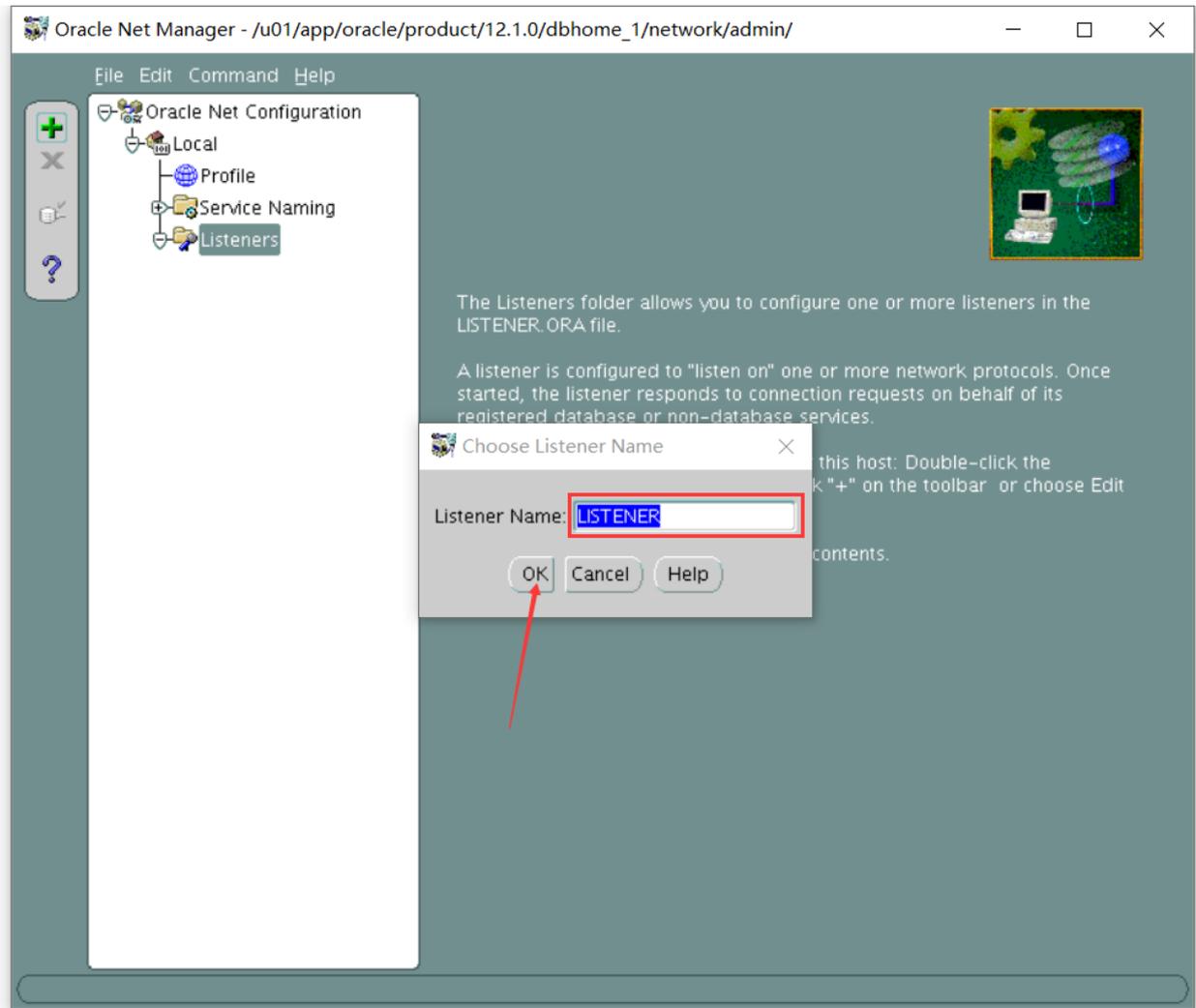
2) 点击+号展开



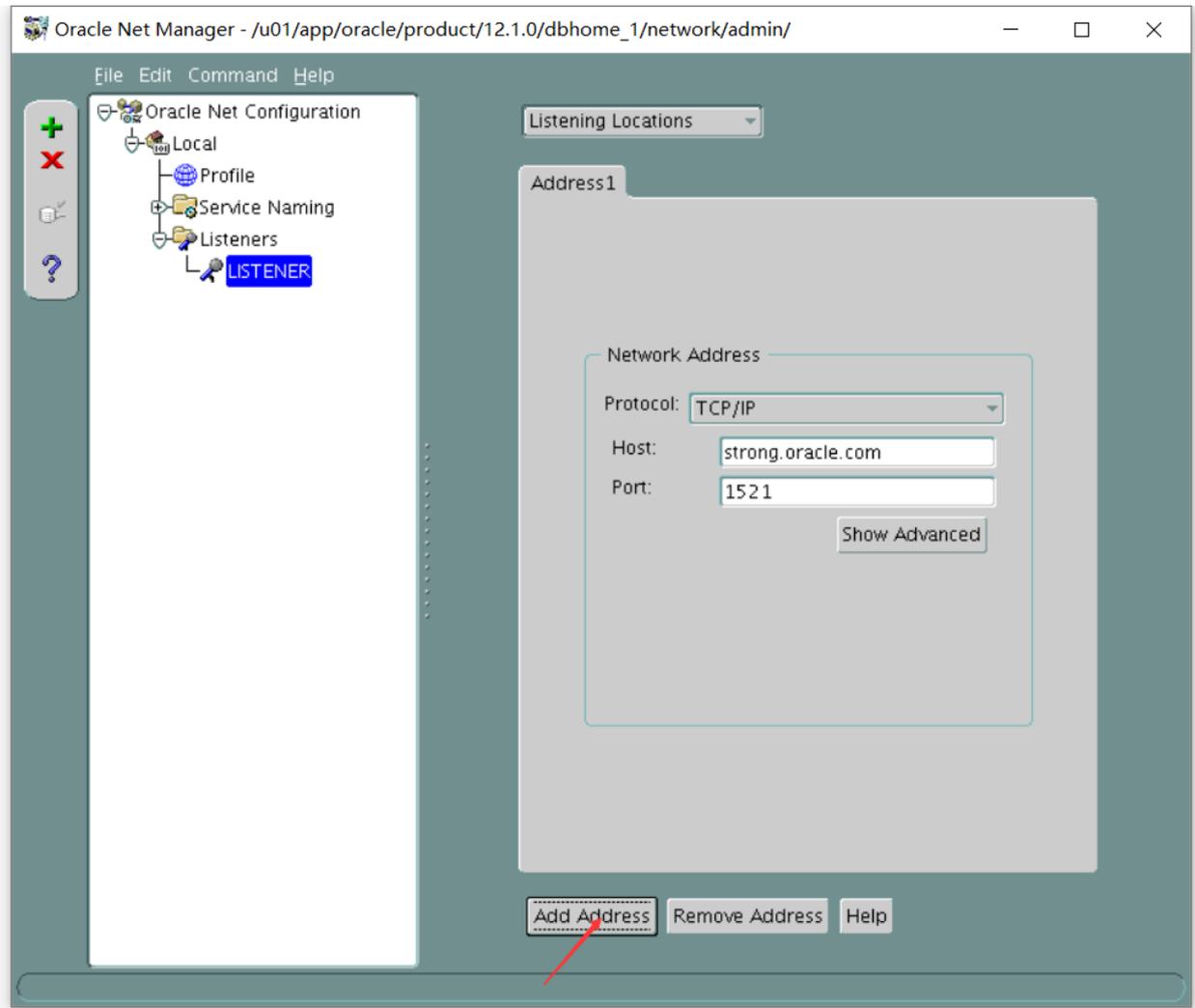
3) 选择Listener, 点击+号



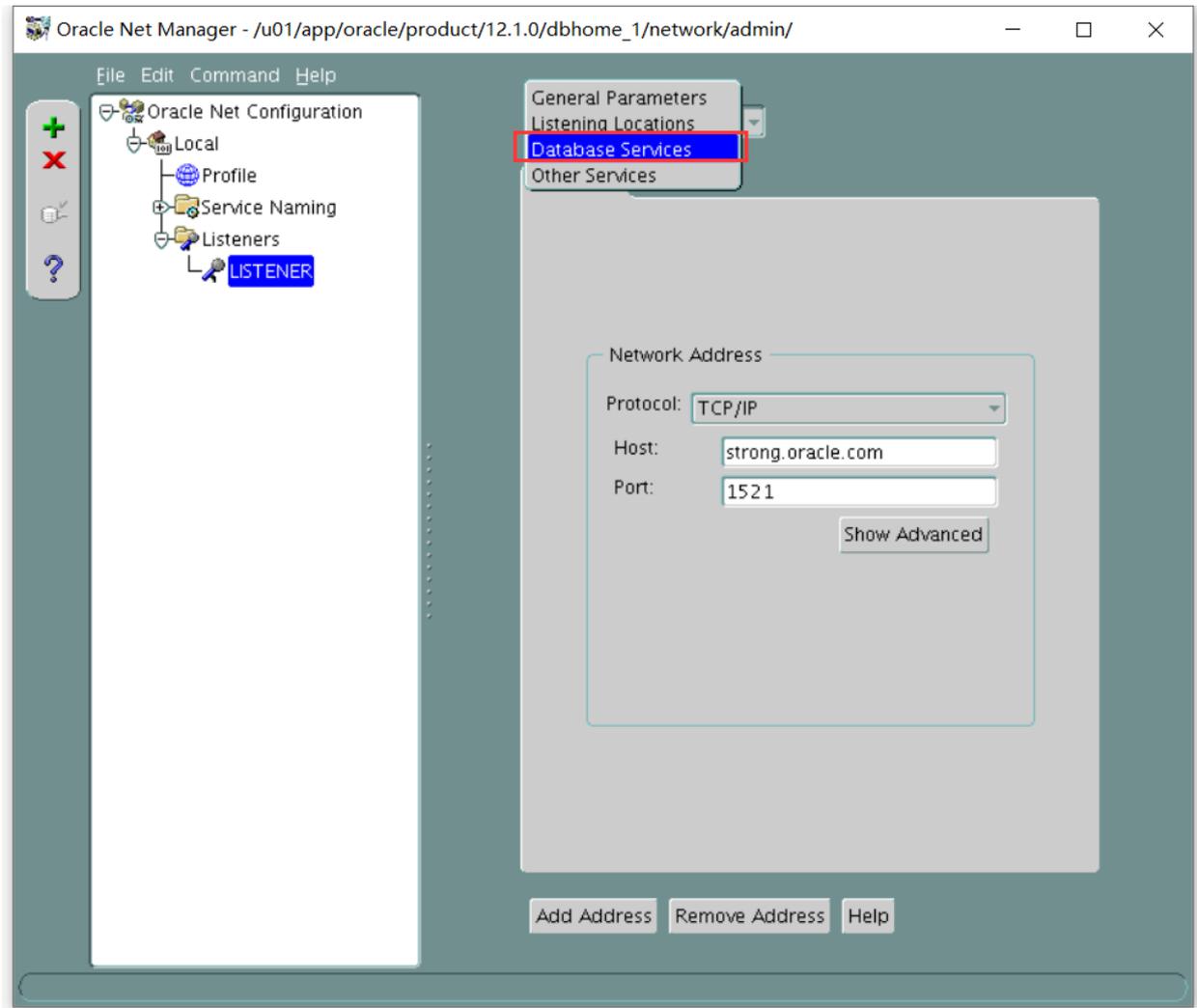
4) 弹出如下界面，默认监听器名称，也可以指定



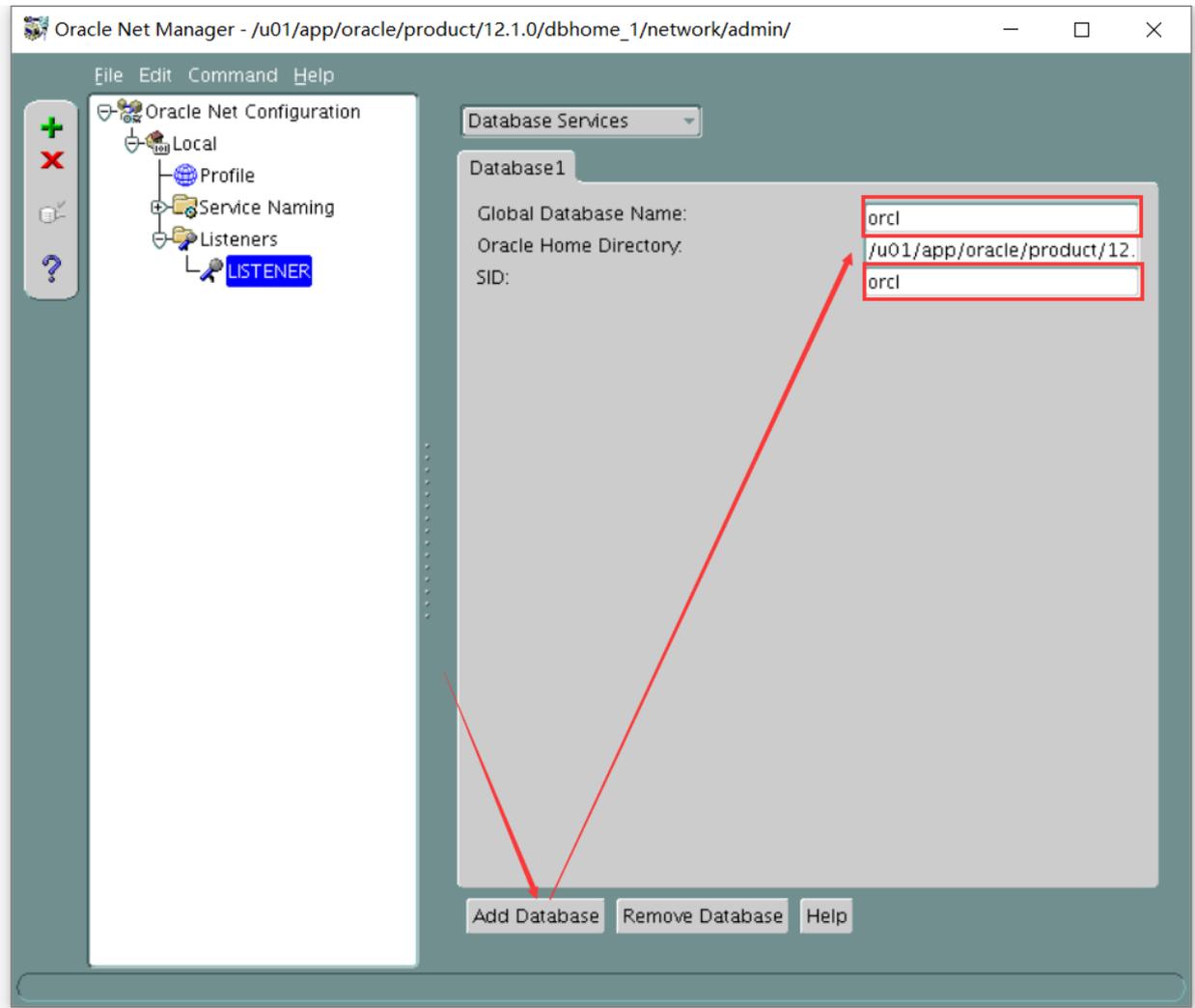
5) 点击OK，在弹出的界面点击Add Address后出现如下界面



6) 然后选择Database Service

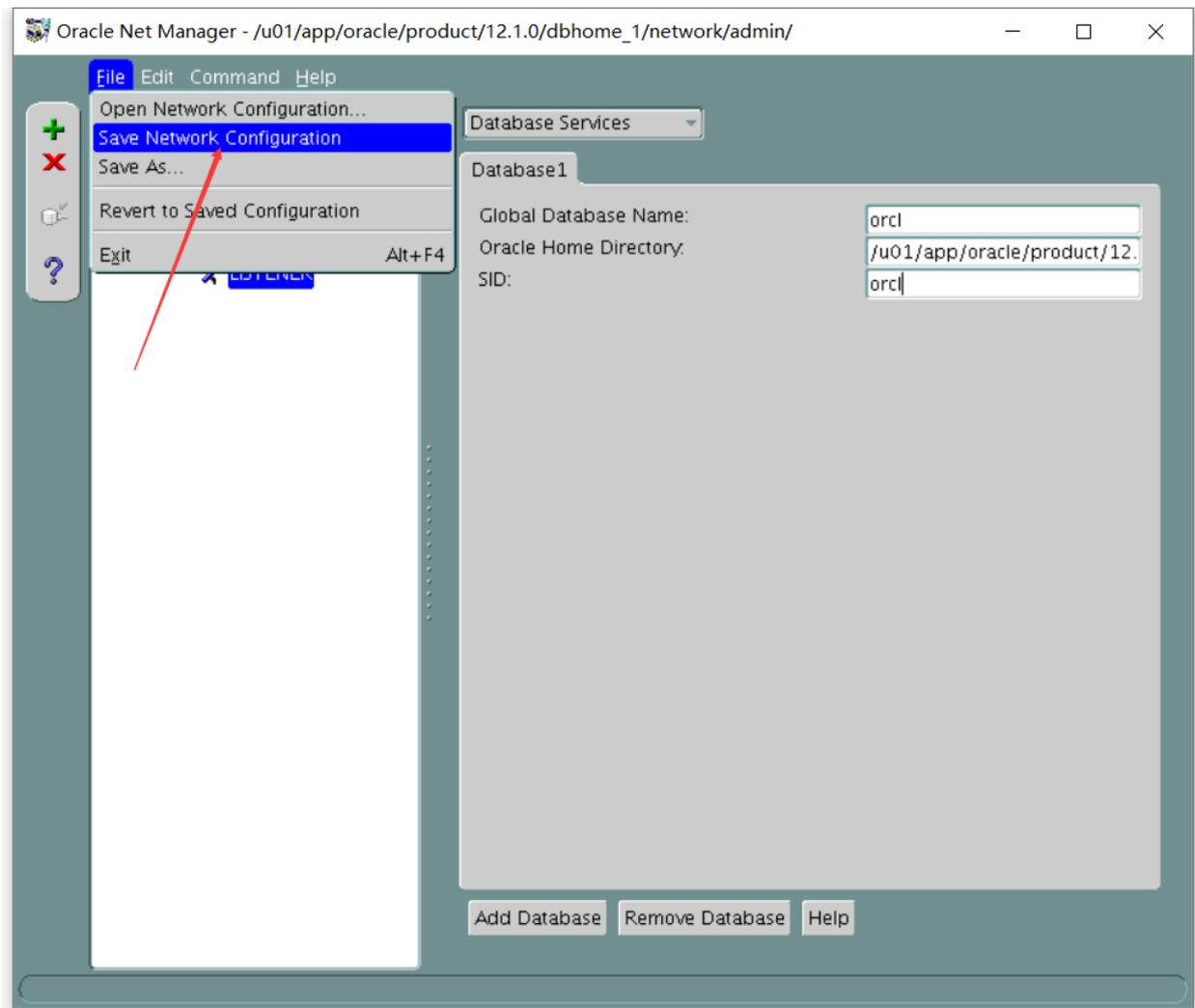


7) 点击Add Database, 填写数据库名称和SID



Global Database Name和SID必须一致，即数据库实例名称，环境变量ORACLE_SID的值。

8) 点击File下的Save Network Configuration，完成监听器配置



9) 查看监听器状态

```
[oracle@strong ~]$ lsnrctl status
```

```
LSNRCTL for Linux: Version 12.1.0.2.0 - Production on 21-JUL-2019 20:48:44
```

Copyright (c) 1991, 2014, Oracle. All rights reserved.

```
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)
```

```
(HOST=strong.oracle.com)(PORT=1521)))
```

```
TNS-12541: TNS:no listener
```

```
TNS-12560: TNS:protocol adapter error
```

```
TNS-00511: No listener
```

```
Linux Error: 111: Connection refused
```

```
no listener说明监听器没有启动。
```

10) 启动监听器

```
[oracle@strong ~]$ lsnrctl start
```

LSNRCTL for Linux: Version 12.1.0.2.0 - Production on 21-JUL-2019 20:50:22

Copyright (c) 1991, 2014, Oracle. All rights reserved.

Starting /u01/app/oracle/product/12.1.0/dbhome_1/bin/tnslsnr: please wait...

TNSLSNR for Linux: Version 12.1.0.2.0 - Production

System parameter file is

/u01/app/oracle/product/12.1.0/dbhome_1/network/admin/listener.ora

Log messages written to /u01/app/oracle/diag/tnslsnr/strong/listener/alert/log.xml

Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)

(HOST=strong.oracle.com)(PORT=1521)))

Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)

(HOST=strong.oracle.com)(PORT=1521)))

STATUS of the LISTENER

Alias LISTENER

Version TNSLSNR for Linux: Version 12.1.0.2.0 - Production

Start Date 21-JUL-2019 20:50:22

Uptime 0 days 0 hr. 0 min. 0 sec

Trace Level off

Security ON: Local OS Authentication

SNMP OFF

Listener Parameter File

/u01/app/oracle/product/12.1.0/dbhome_1/network/admin/listener.ora

Listener Log File /u01/app/oracle/diag/tnslsnr/strong/listener/alert/log.xml

Listening Endpoints Summary...

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=strong.oracle.com)

(PORT=1521)))

Services Summary...

Service "orcl" has 1 instance(s).

Instance "orcl", status UNKNOWN, has 1 handler(s) for this service...

The command completed successfully

11) 查看监听器配置

```
[oracle@strong ~]$ cat
```

```
/u01/app/oracle/product/12.1.0/dbhome_1/network/admin/listener.ora
```

```
# listener.ora Network Configuration File:
```

```
/u01/app/oracle/product/12.1.0/dbhome_1/network/admin/listener.ora
```

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

```
SID_LIST_LISTENER =
```

```
(SID_LIST =
```

```
(SID_DESC =
```

```
(GLOBAL_DBNAME = orcl)
```

```
(ORACLE_HOME = /u01/app/oracle/product/12.1.0/dbhome_1)
```

```
(SID_NAME = orcl)
```

```
)
```

```
)
```

```
LISTENER =
```

```
(DESCRIPTION =
```

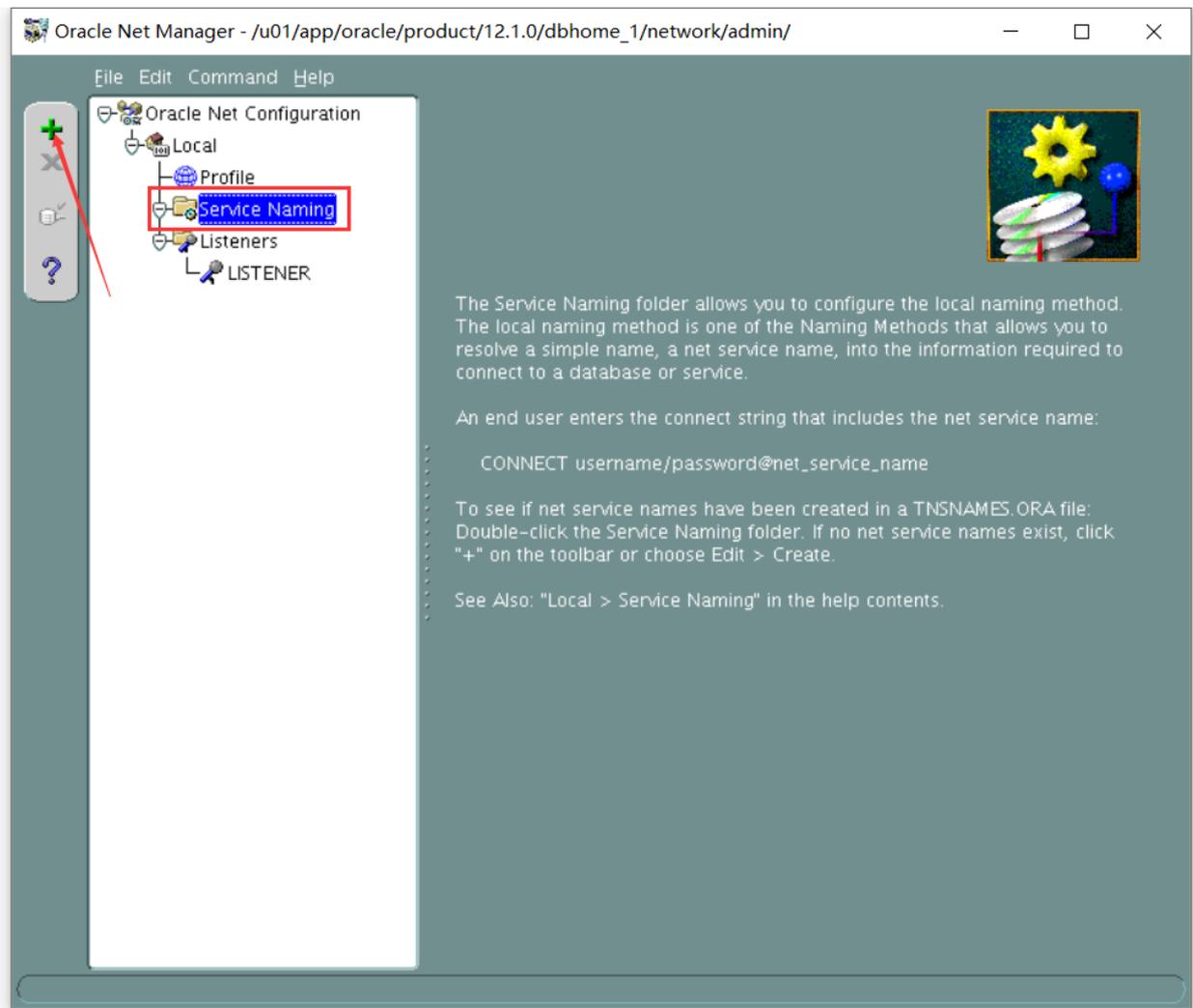
```
(ADDRESS = (PROTOCOL = TCP)(HOST = strong.oracle.com)(PORT = 1521))
```

```
)
```

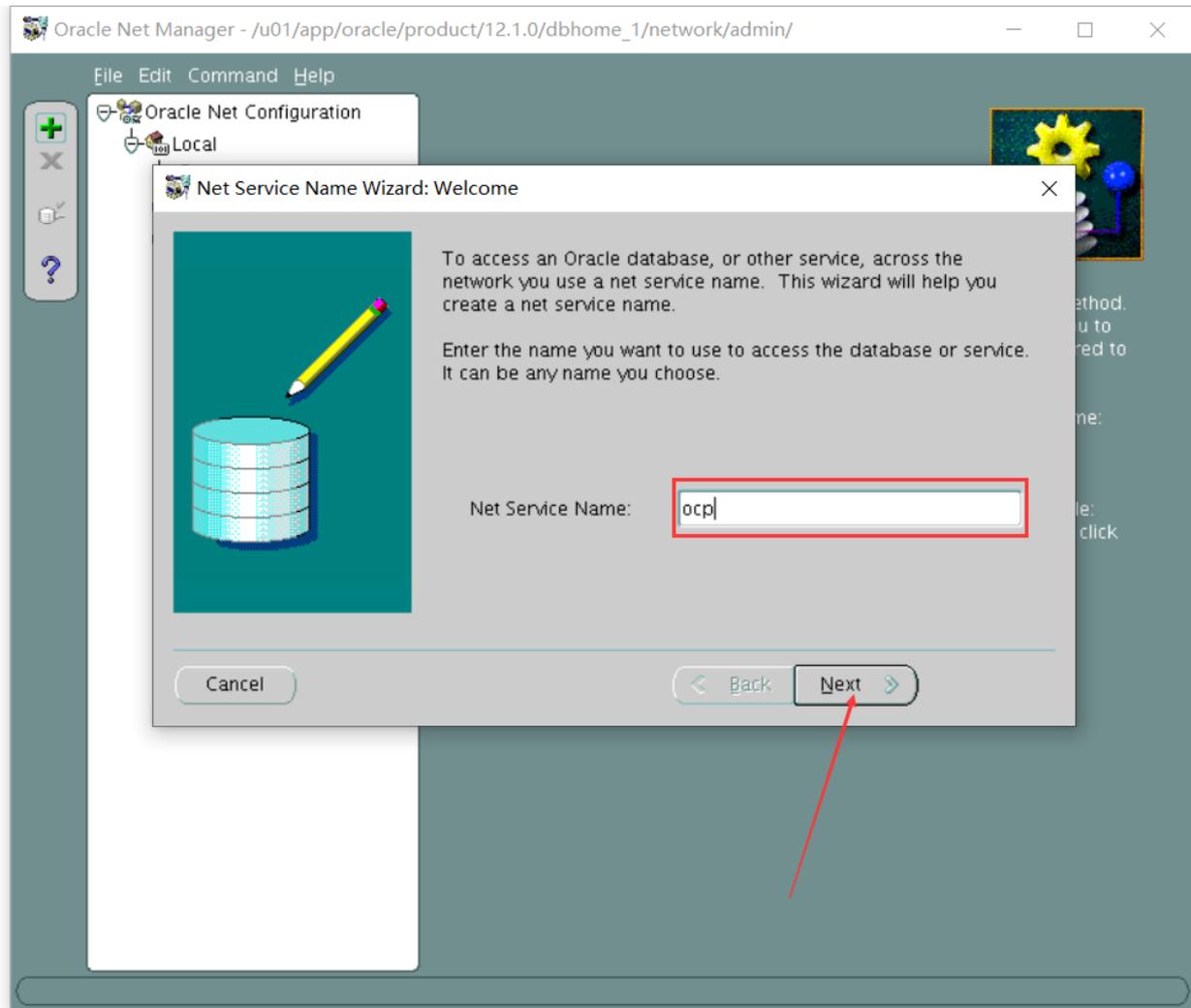
```
ADR_BASE_LISTENER = /u01/app/oracle
```

1.2 配置TNS

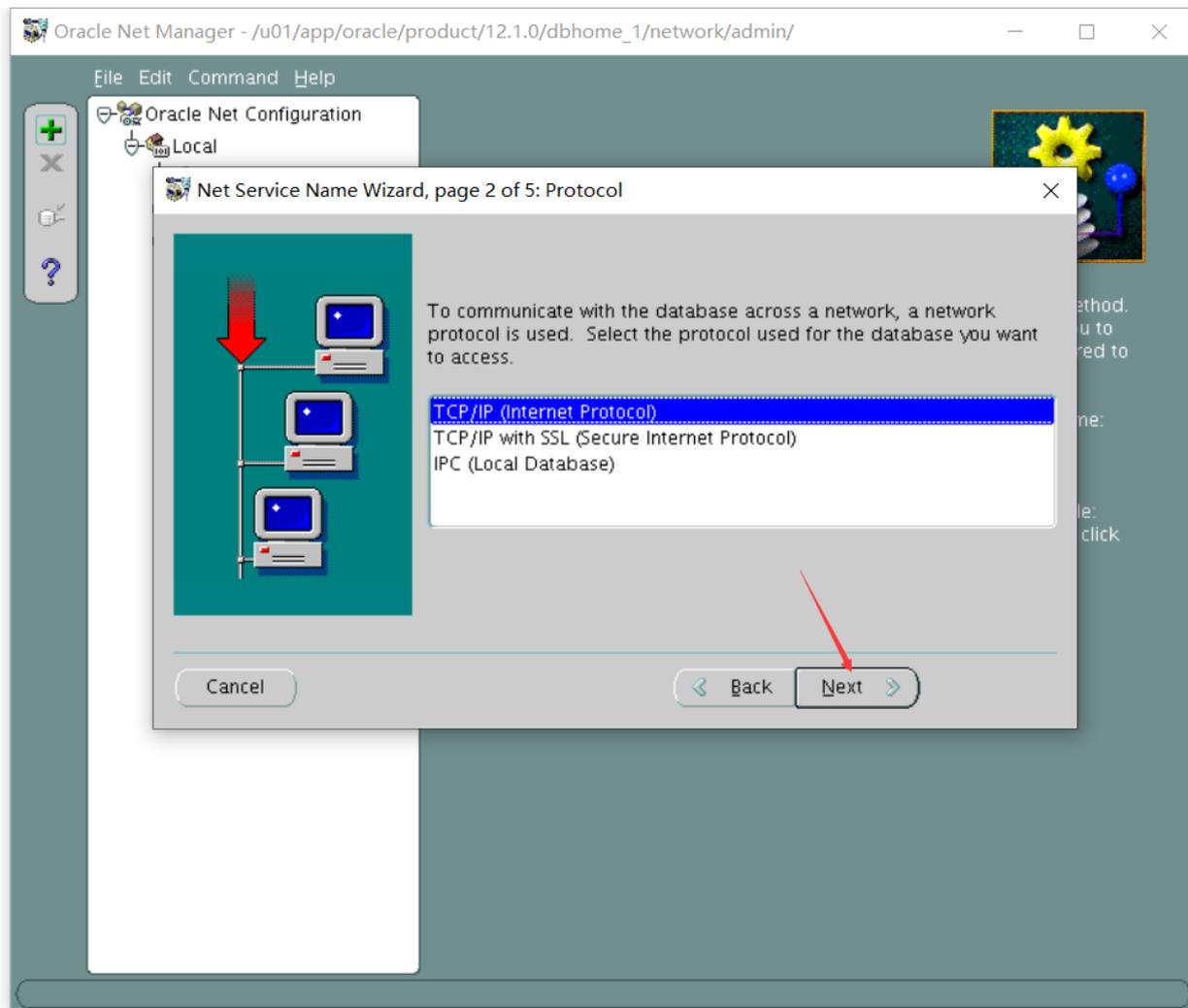
1) 选择Service Naming, 并点击+号



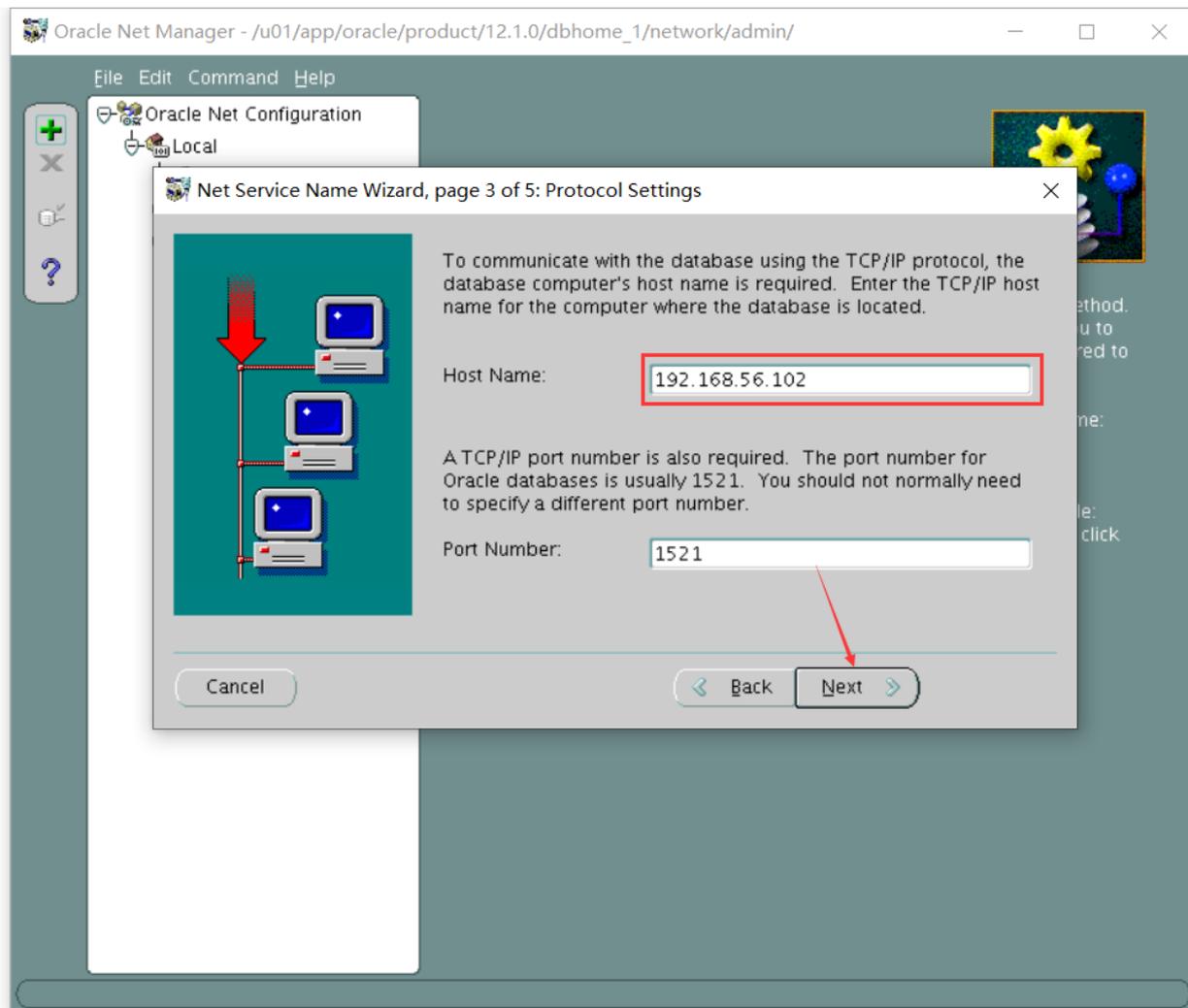
2) 填写Net Service Name, 并点击Next



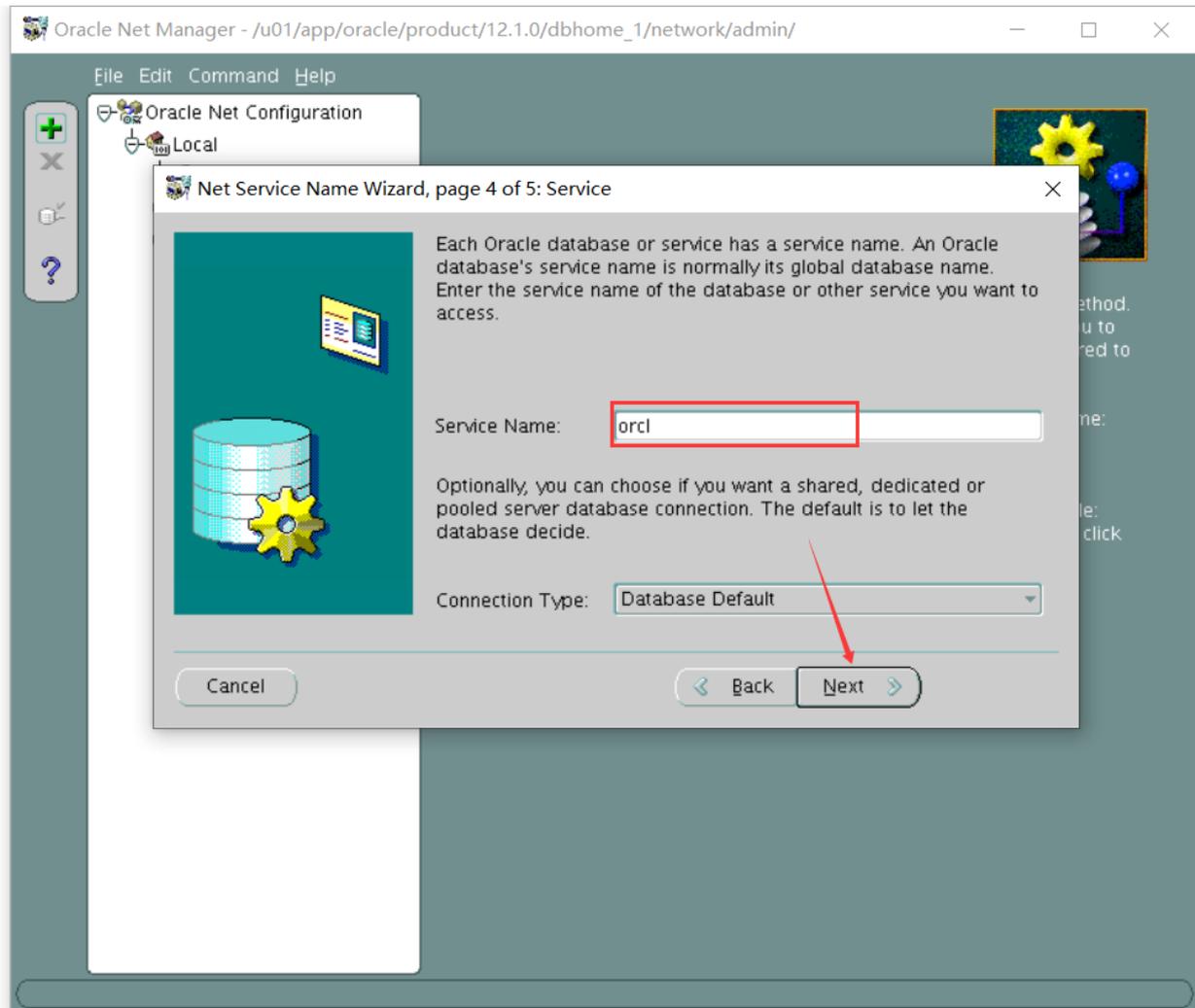
3) 默认使用TCP/IP协议，点击Next



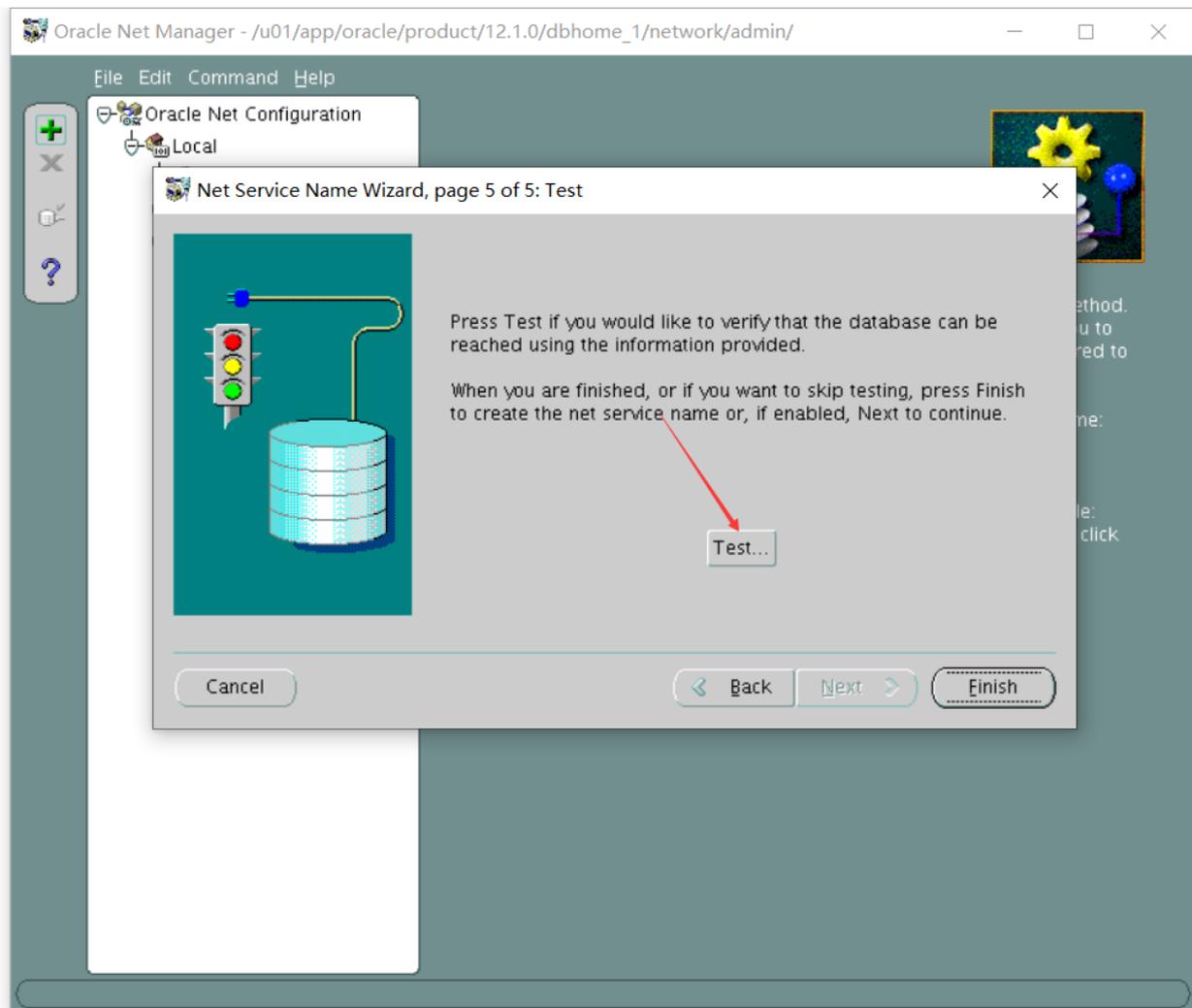
4) 输入Host Name, 端口默认为1521, 可以指定其他端口, 点击Next



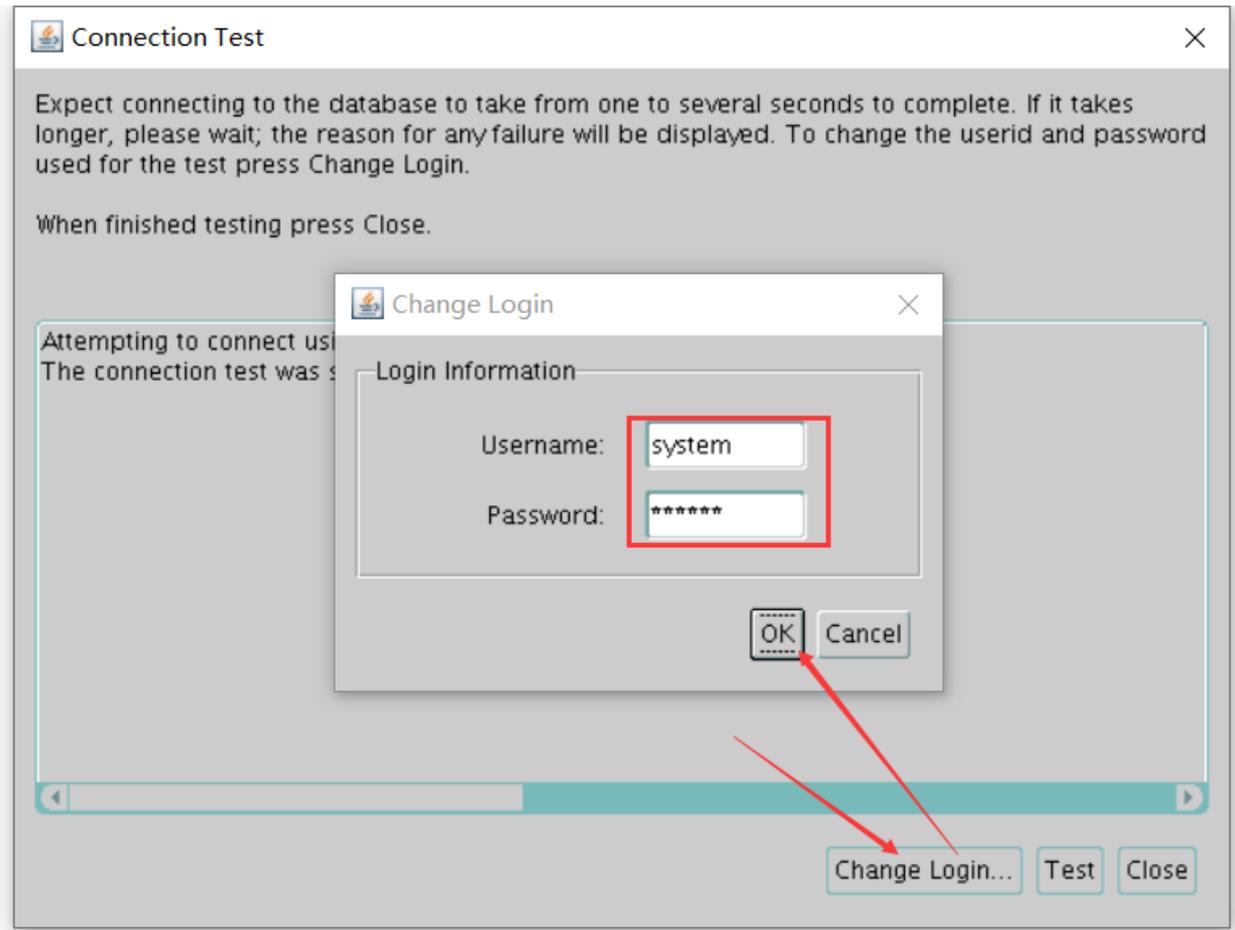
5) 输入数据库名称，点击Next



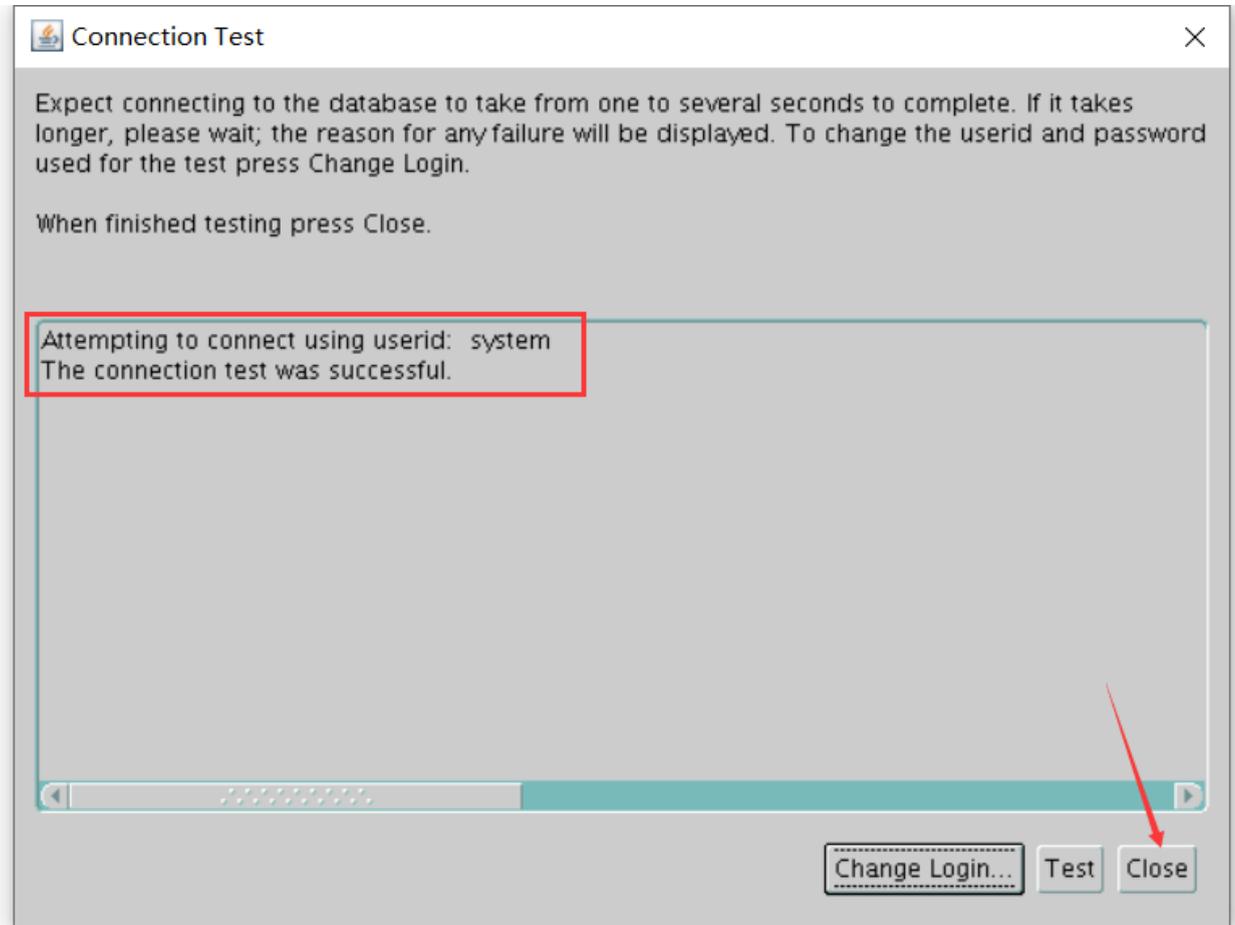
6) 点击Test



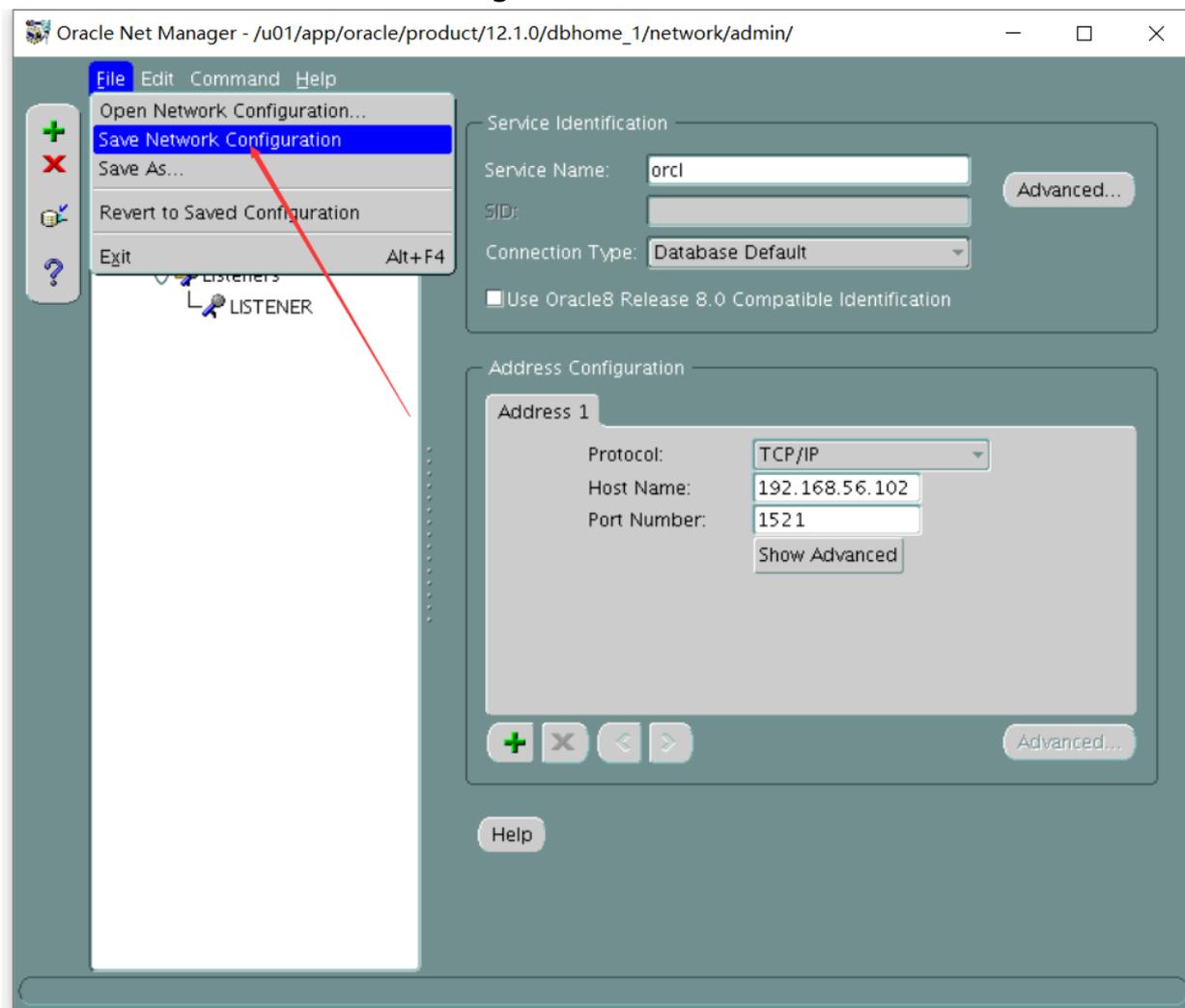
7) 点击Change Login, 输入用户名和密码, 点击OK



8) 点击Test, 验证通过, 出现如下界面, 点击Close, 点击Finish



9) 点击File下Save Network Configuration, 完成TNS配置



10) 验证配置

```
[oracle@strong ~]$ sqlplus /nolog
```

```
SQL*Plus: Release 12.1.0.2.0 Production on Sun Jul 21 21:05:21 2019
```

```
Copyright (c) 1982, 2014, Oracle. All rights reserved.
```

```
SQL> conn system/system@ocp
```

```
Connected.
```

```
SQL>
```

| TNS配置成功, 可以通过TNS进行连接数据库。

11) 查看TNS配置

```
[oracle@strong ~]$ cat
```

```
/u01/app/oracle/product/12.1.0/dbhome_1/network/admin/tnsnames.ora
```

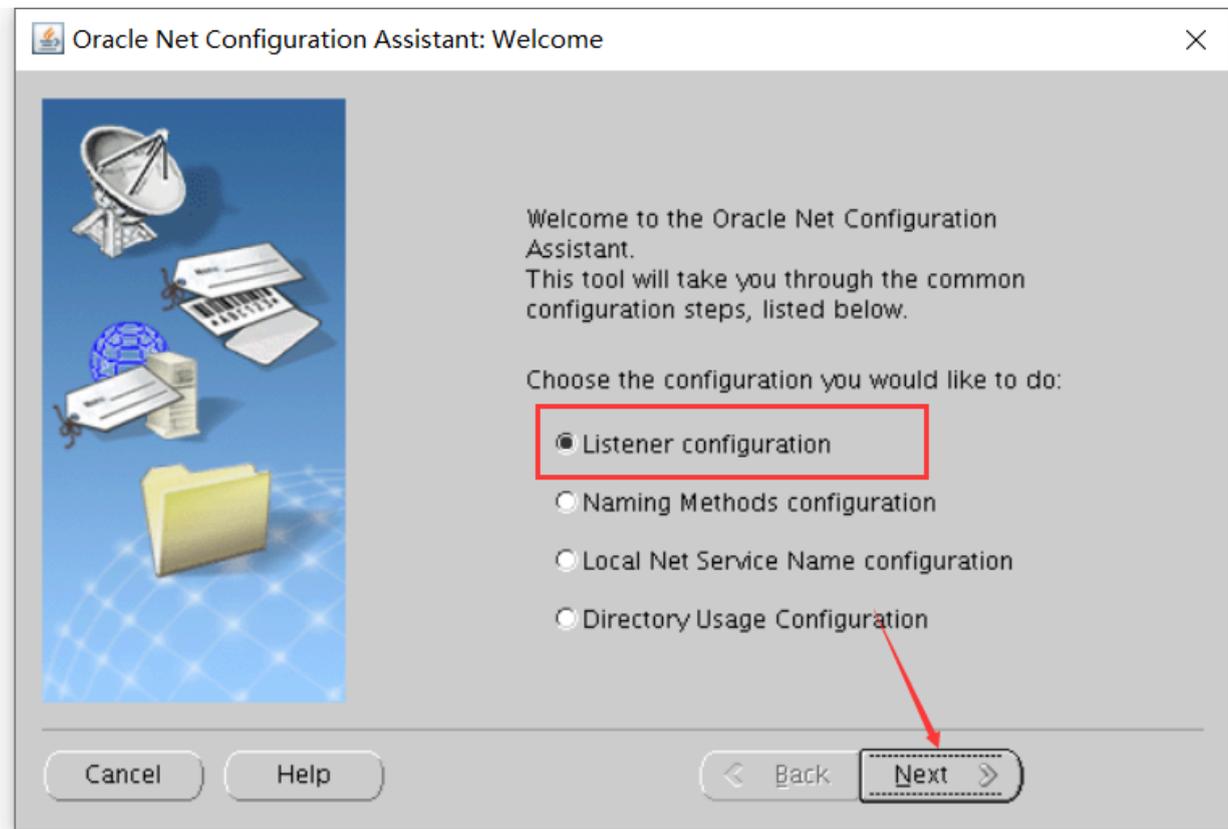
```
# tnsnames.ora Network Configuration File:  
/u01/app/oracle/product/12.1.0/dbhome_1/network/admin/tnsnames.ora  
# Generated by Oracle configuration tools.
```

```
OCP =  
  (DESCRIPTION =  
    (ADDRESS_LIST =  
      (ADDRESS = (PROTOCOL = TCP)(HOST = 192.168.56.102)(PORT = 1521))  
    )  
    (CONNECT_DATA =  
      (SERVICE_NAME = orcl)  
    )  
  )
```

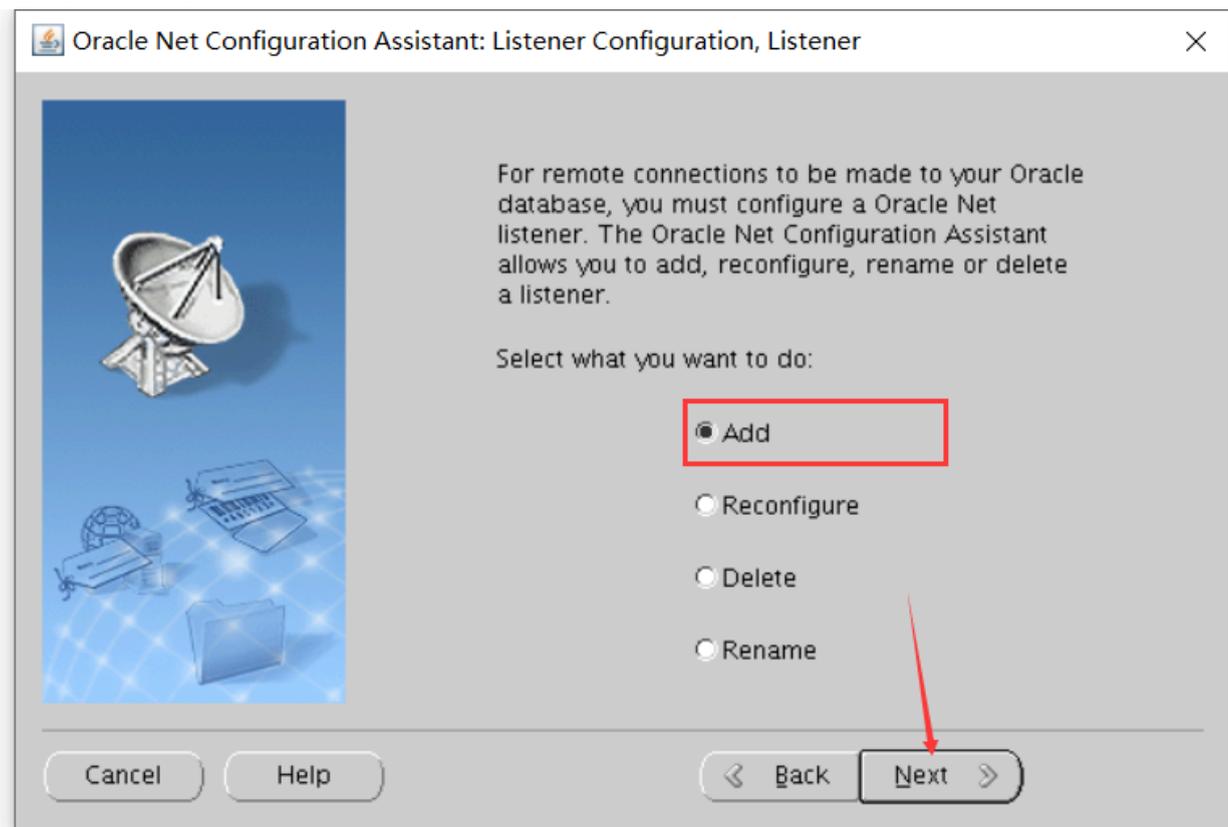
2 使用netca配置

2.1 配置监听器

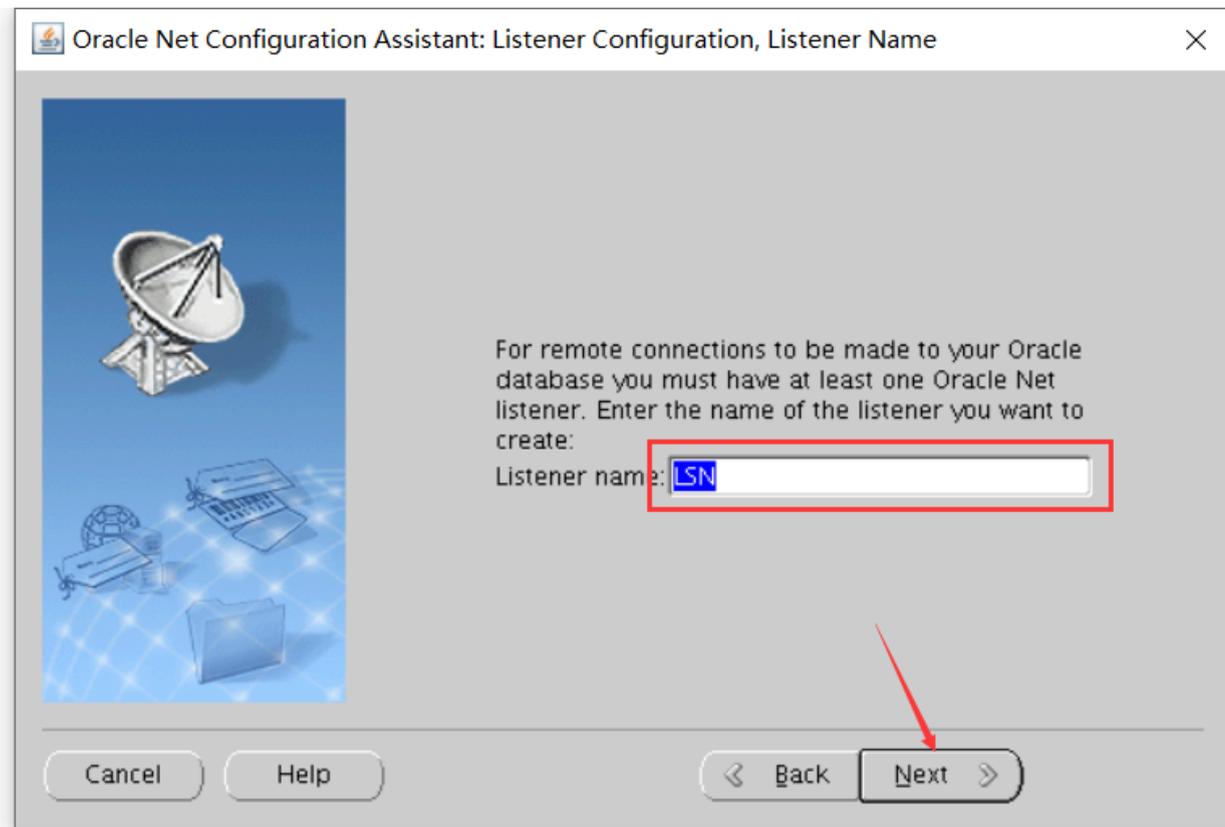
- 1) 命令行执行netca命令
[oracle@strong ~]\$ netca
- 2) 默认选择Listener configuration, 点击Next



3) 默认Add, 点击Next

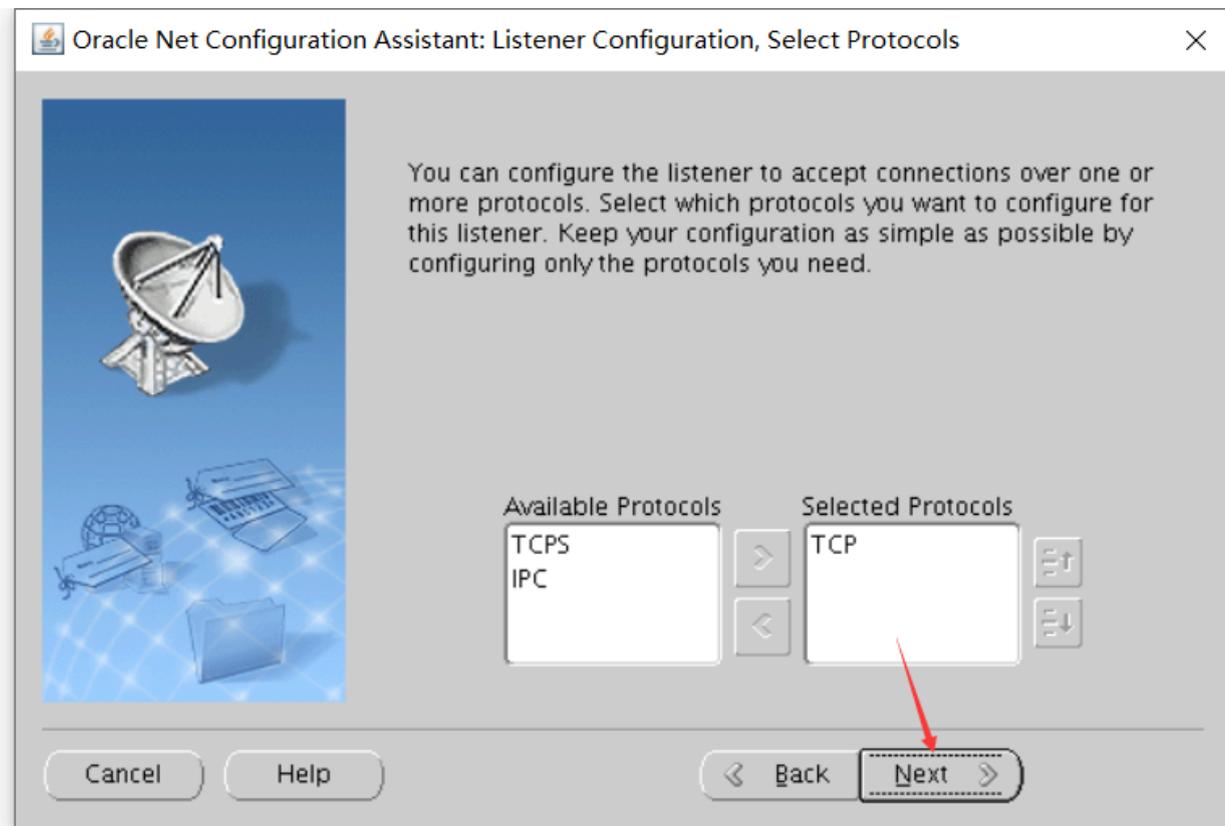


4) 输入Listener名称, 默认, 点击Next

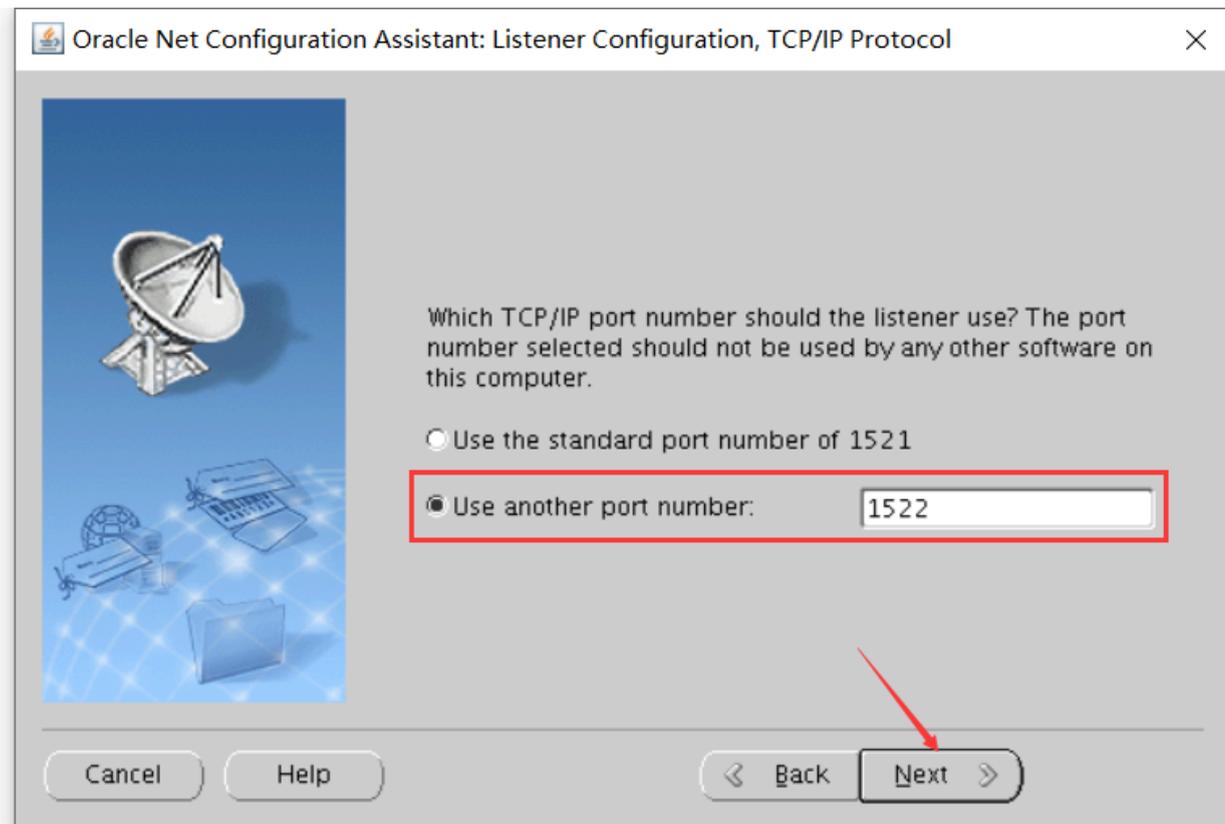


监听器名称默认为LISTENER，可以使用默认名称，也可以指定其它名称。

5) 选择可用协议，默认TCP，点击Next

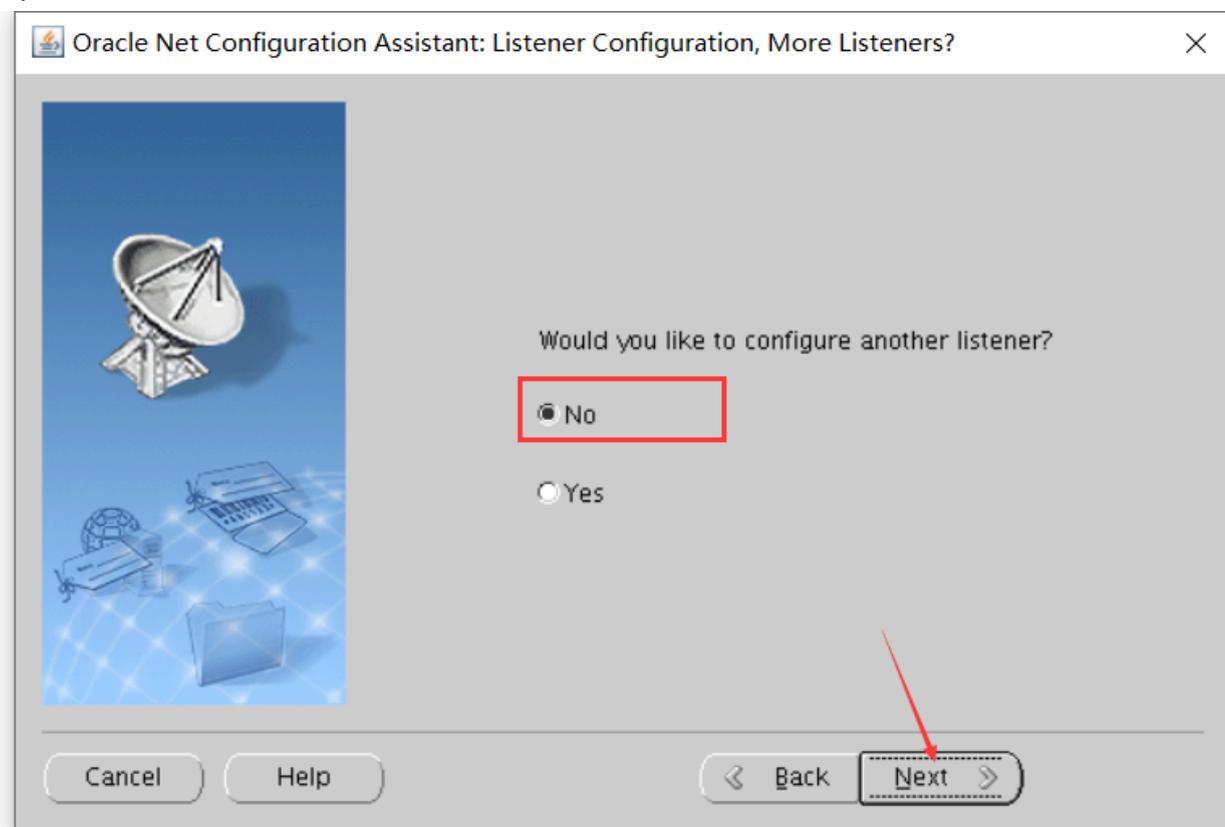


6) 使用端口1522，点击Next

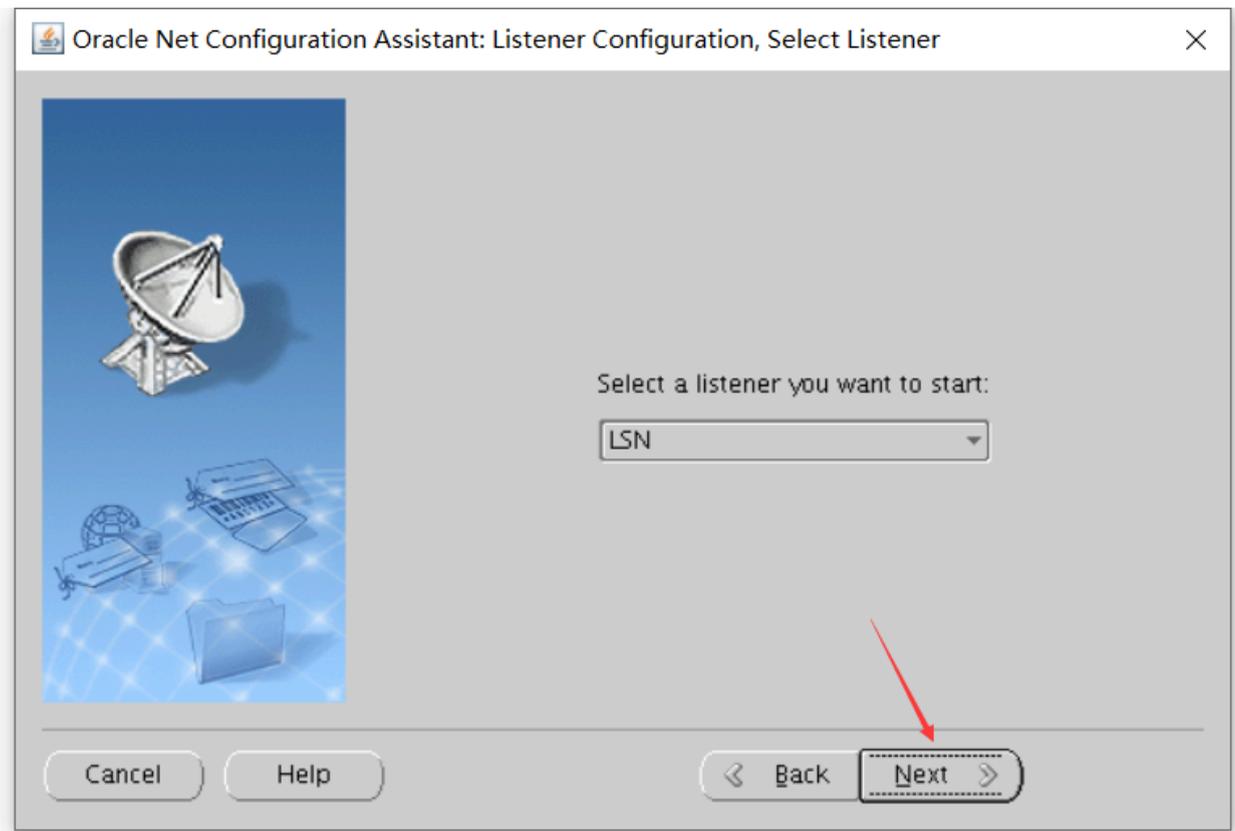


监听器端口默认为1521，可以使用默认端口，也可以指定其它端口，若默认端口已被使用，则不能再指定默认端口。

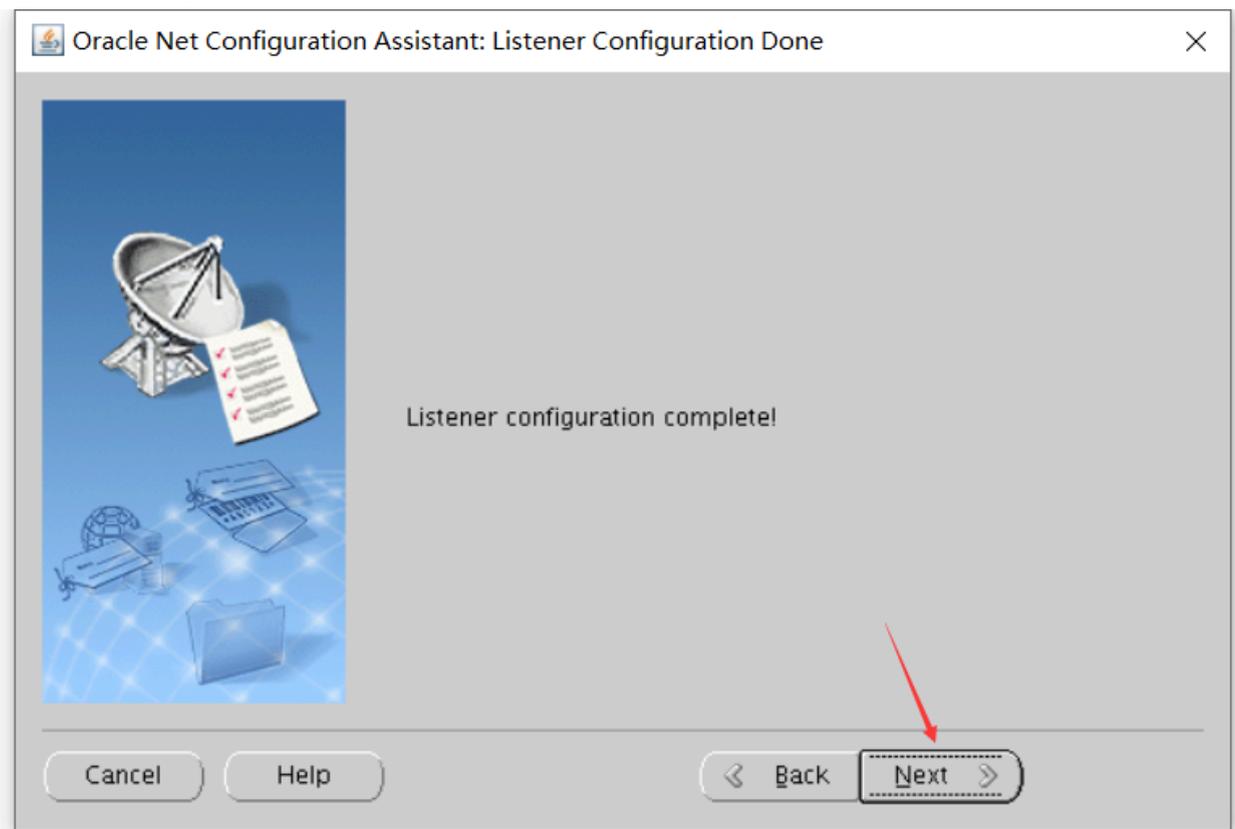
7) 默认，点击Next



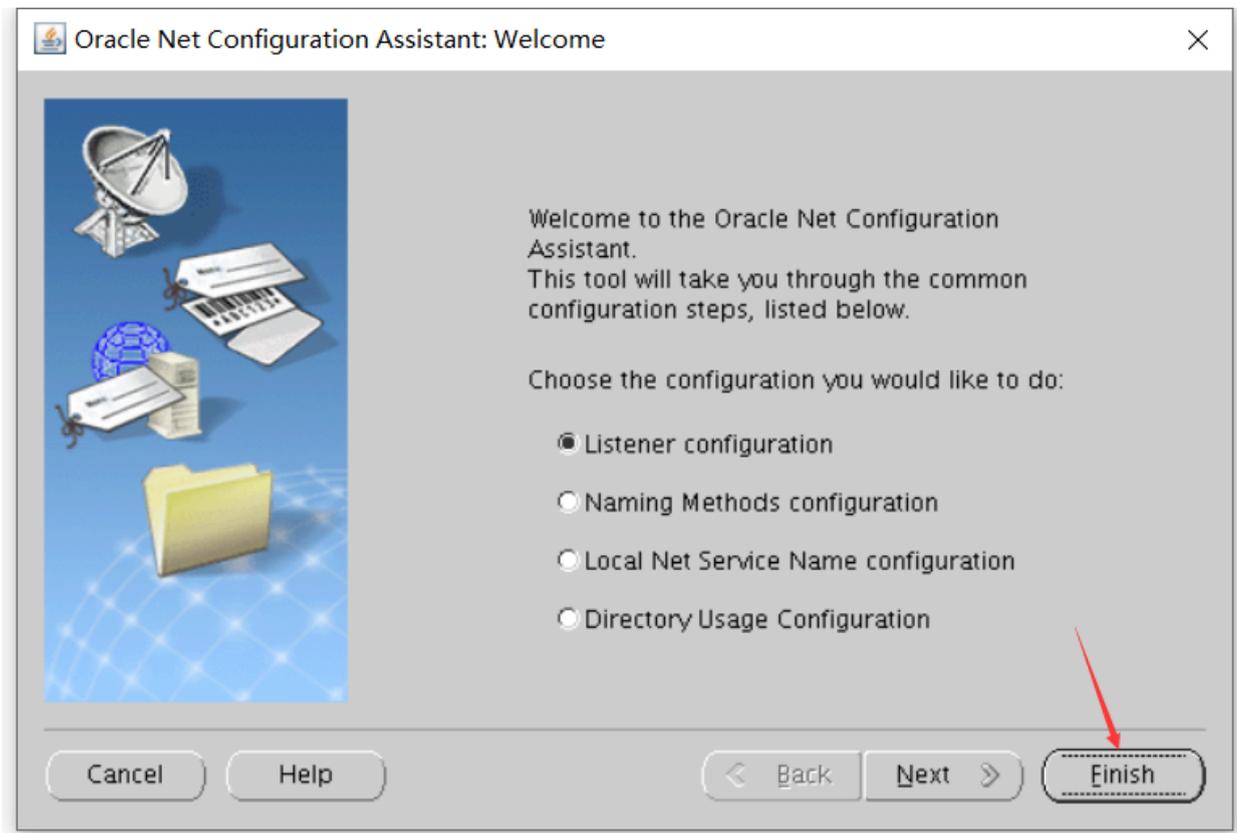
8) 点击Next



9) 完成配置，点击Next



10) 点击Finish，退出监听器配置



11) 查看监听器状态

```
[oracle@strong ~]$ lsnrctl status lsn
```

```
LSNRCTL for Linux: Version 12.1.0.2.0 - Production on 21-JUL-2019 21:16:47
```

Copyright (c) 1991, 2014, Oracle. All rights reserved.

```
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)
(HOST=strong.oracle.com)(PORT=1522)))
```

```
STATUS of the LISTENER
```

```
-----
```

```
Alias          LSN
Version        TNSLSNR for Linux: Version 12.1.0.2.0 - Production
Start Date     21-JUL-2019 21:14:18
Uptime         0 days 0 hr. 2 min. 29 sec
Trace Level    off
Security       ON: Local OS Authentication
SNMP           OFF
Listener Parameter File
/u01/app/oracle/product/12.1.0/dbhome_1/network/admin/listener.ora
```

Listener Log File /u01/app/oracle/diag/tnslsnr/strong/lsn/alert/log.xml

Listening Endpoints Summary...

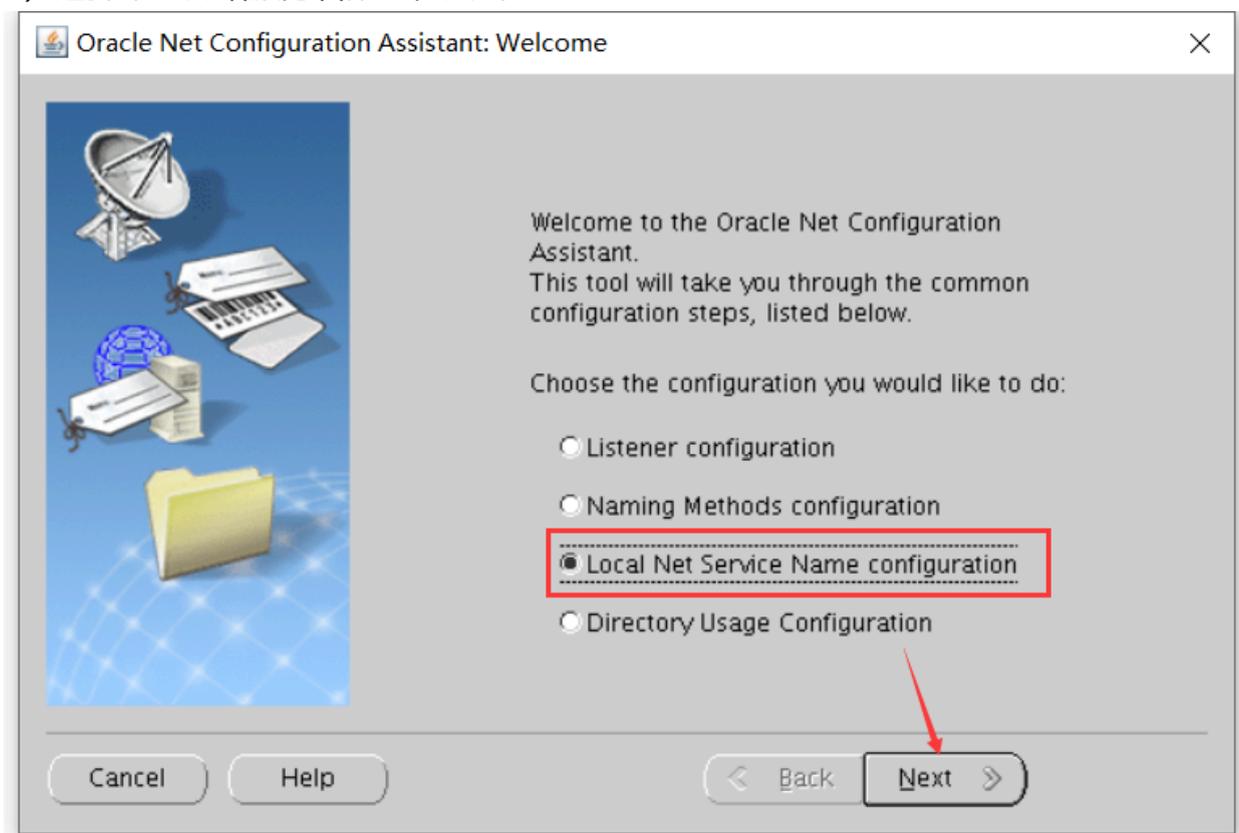
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=strong.oracle.com)
(PORT=1522)))

The listener supports no services

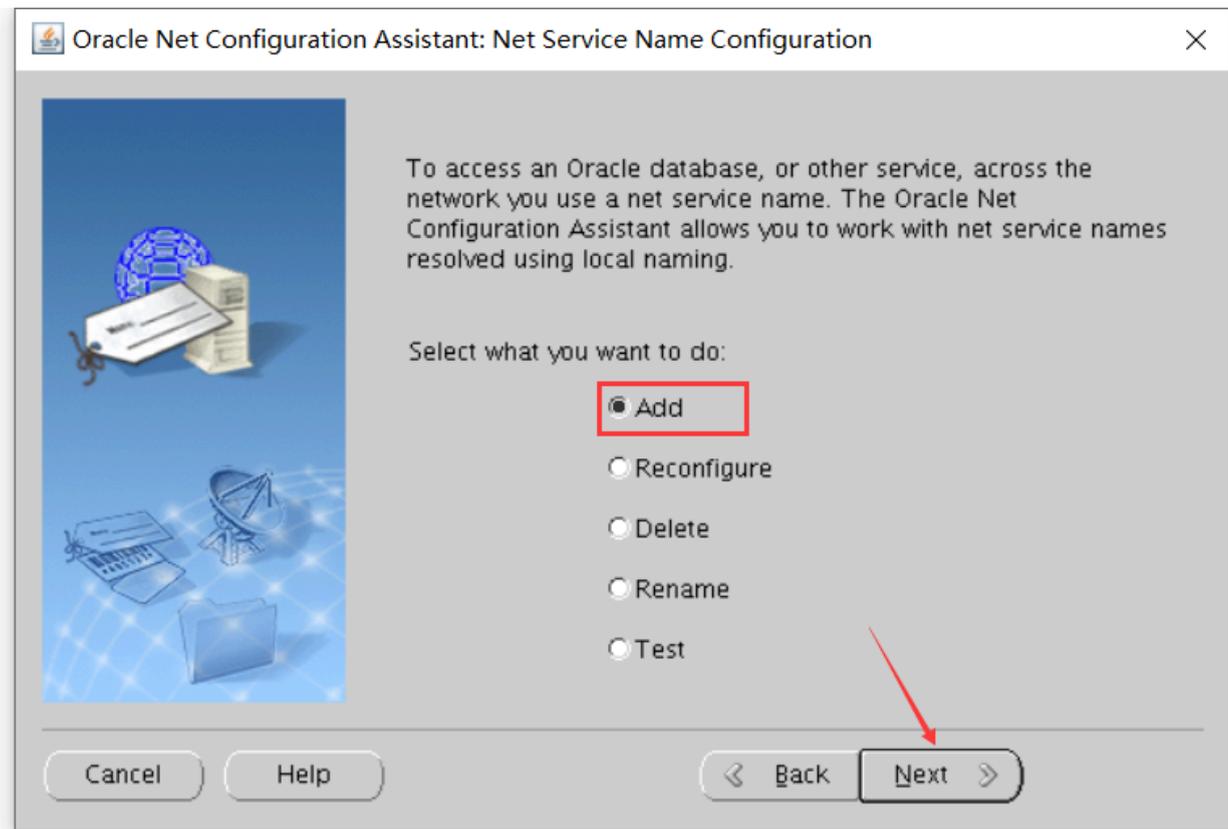
The command completed successfully

2.2 配置TNS

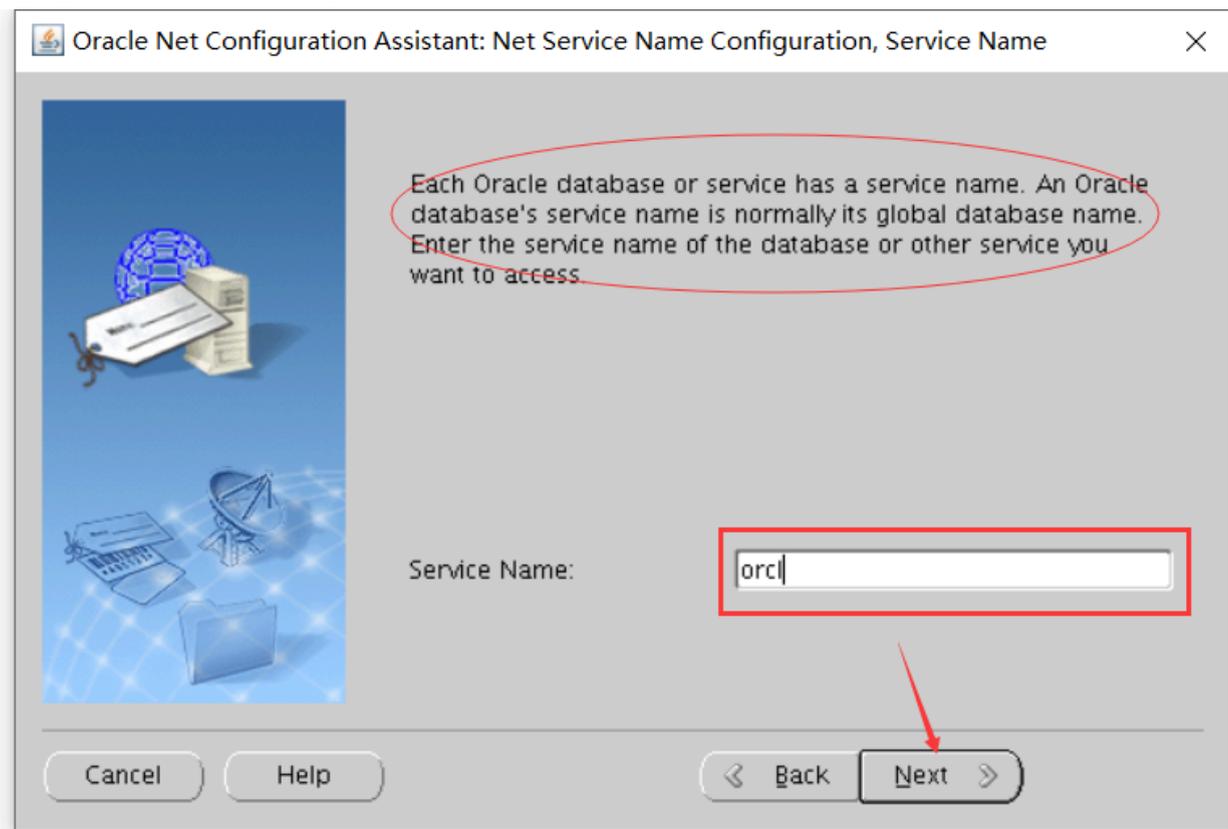
1) 选择本地网络服务名配置，点击Next



2) 默认Add，点击Next

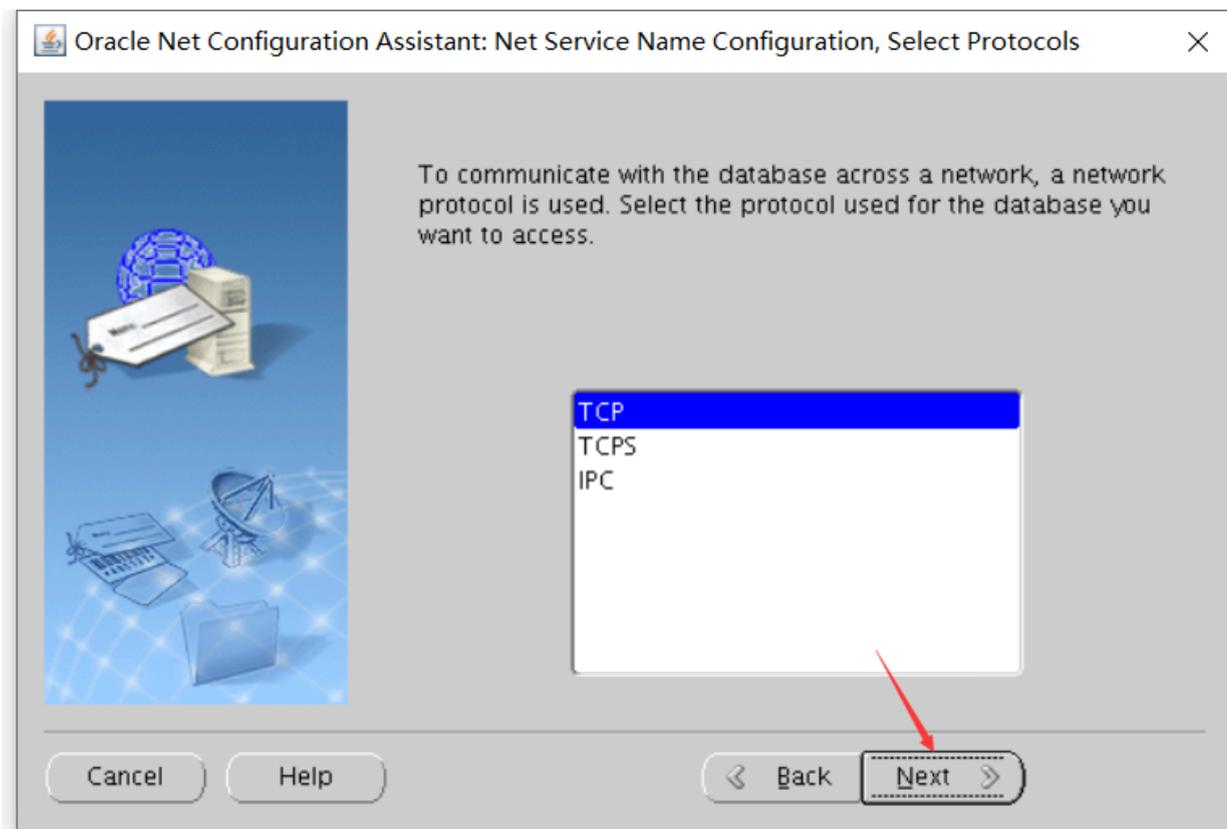


3) 输入Service Name, 点击Next

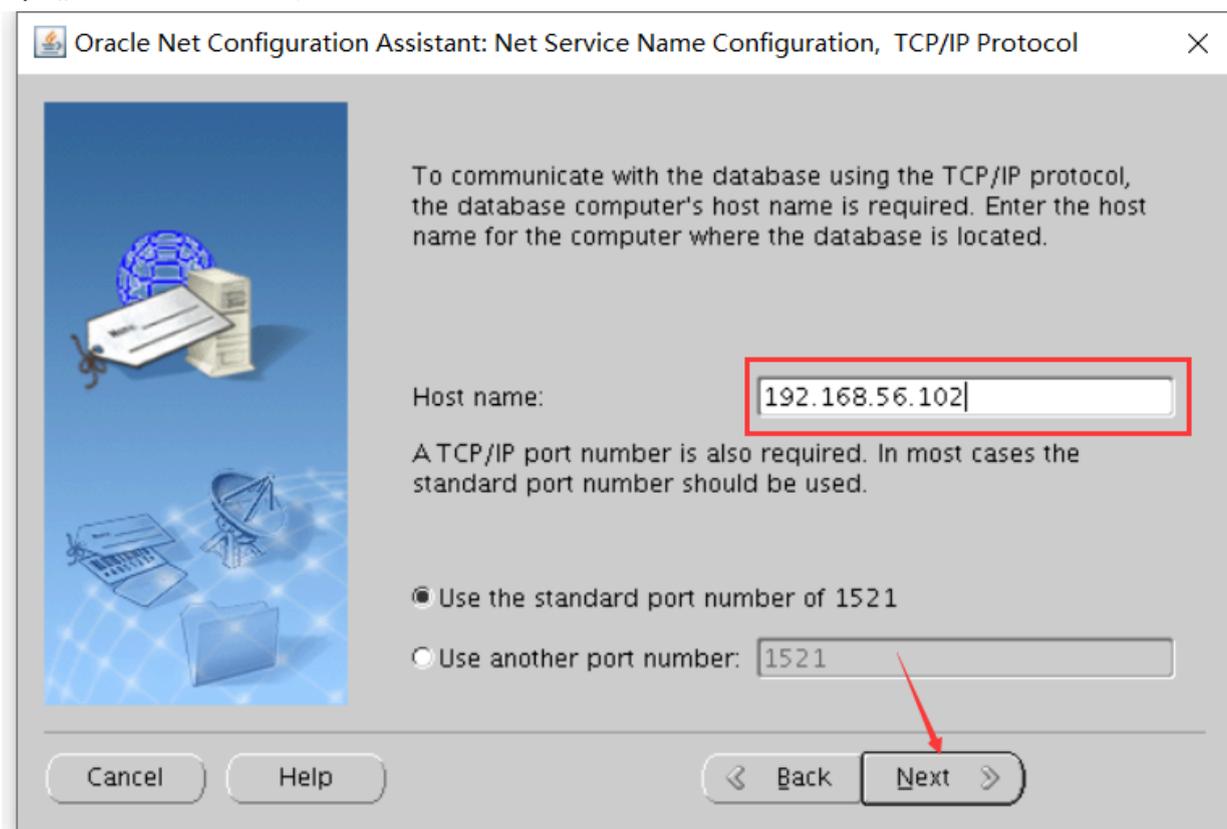


Service Name指数据库实例名称，即ORACLE_SID的值。

4) 默认TCP, 点击Next

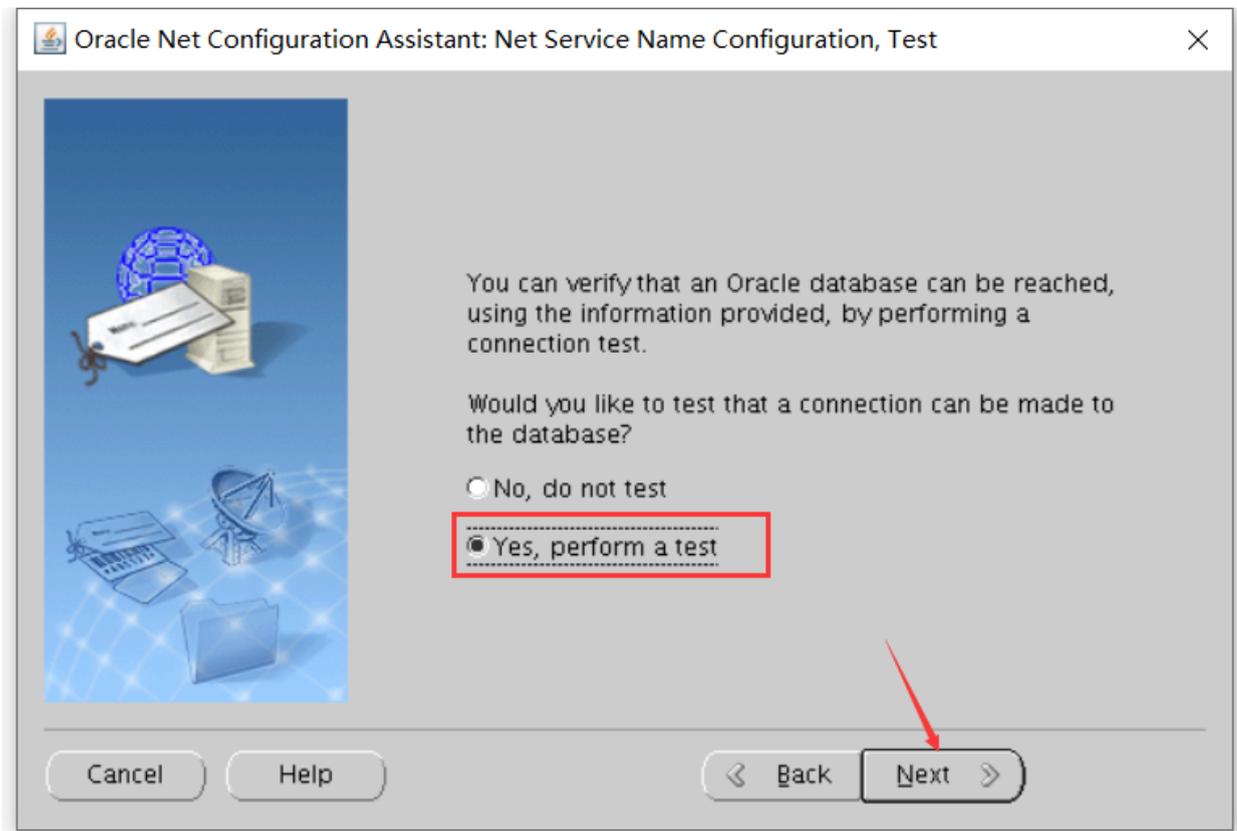


5) 输入Host Name, 点击Next

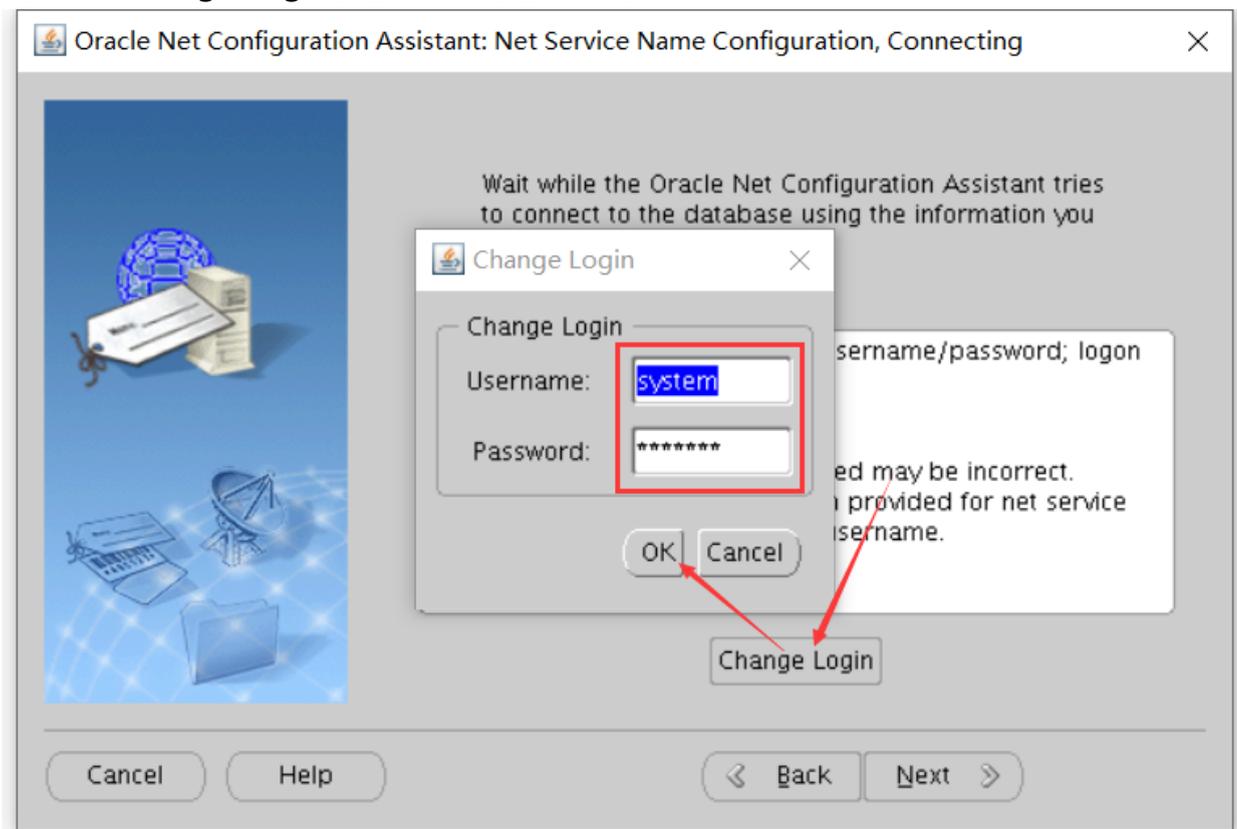


TNS对应的端口为已配置的监听器的端口。

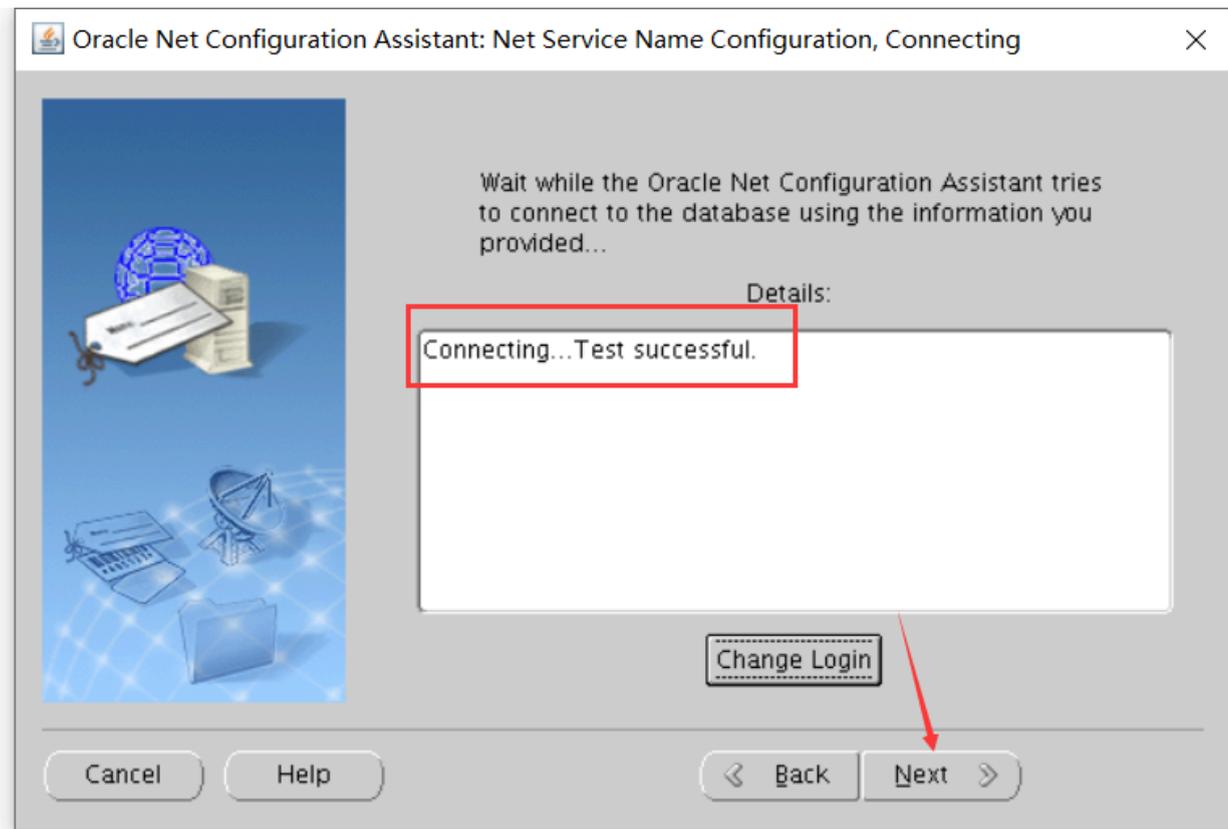
6) 选择Yes, perform a test, 点击Next



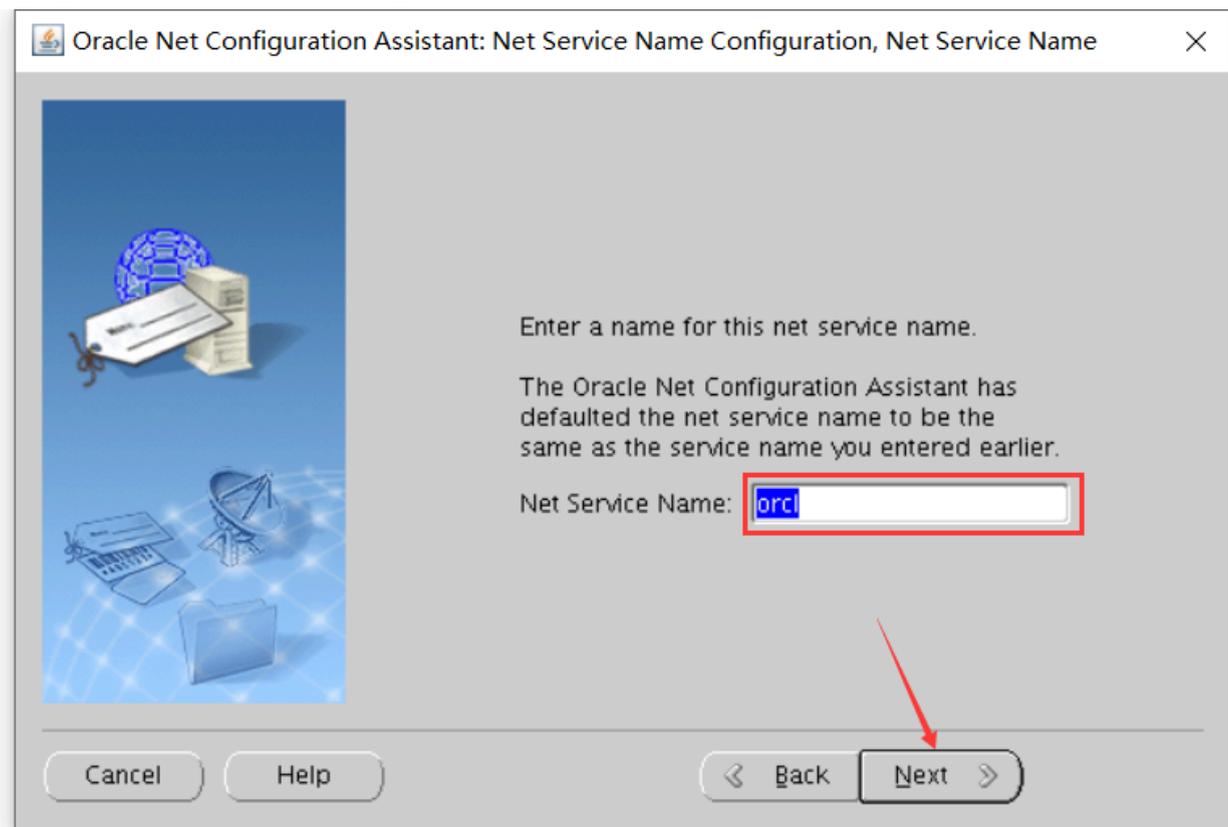
7) 点击Change Login, 输入用户名和密码, 点击OK



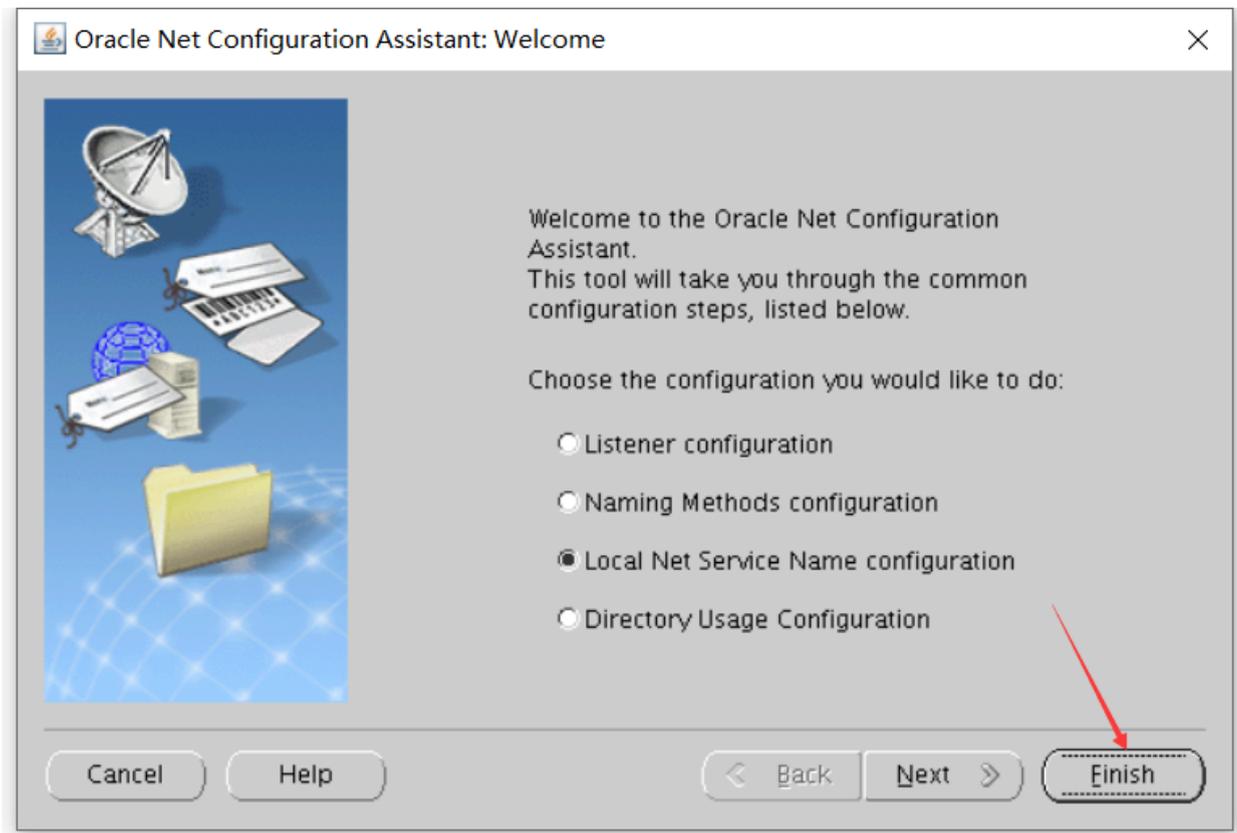
8) 测试通过, 点击Next



9) 输入Net Service Name, 点击Next



10) 默认, 点击Next, 再次点击Next, 点击Finish, 完成配置



11) 测试TNS配置

```
[oracle@strong ~]$ sqlplus /nolog
```

```
SQL*Plus: Release 12.1.0.2.0 Production on Sun Jul 21 21:29:10 2019
```

```
Copyright (c) 1982, 2014, Oracle. All rights reserved.
```

```
SQL> conn system/system@orcl
```

```
Connected.
```

```
SQL>
```

3 手工配置

手工编辑监听器配置文件listener.ora和网络服务文件tnsnames.ora。

4 连接数据库

4.1 本地连接方式

```
[oracle@strong ~]$ sqlplus / as sysdba
```

```
SQL*Plus: Release 12.1.0.2.0 Production on Sun Jul 21 21:32:01 2019
```

```
Copyright (c) 1982, 2014, Oracle. All rights reserved.
```

```
Connected to:
```

```
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production  
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing  
options
```

```
SQL>
```

4.2 Easy Connect方式

```
[oracle@strong ~]$ sqlplus /nolog
```

```
SQL*Plus: Release 12.1.0.2.0 Production on Sun Jul 21 21:33:00 2019
```

```
Copyright (c) 1982, 2014, Oracle. All rights reserved.
```

```
SQL> conn sys/system@192.168.56.102:1521/orcl as sysdba
```

```
Connected.
```

```
SQL>
```

4.3 TNS方式

```
[oracle@strong ~]$ sqlplus /nolog
```

```
SQL*Plus: Release 12.1.0.2.0 Production on Sun Jul 21 21:33:33 2019
```

```
Copyright (c) 1982, 2014, Oracle. All rights reserved.
```

```
SQL> conn sys/system@orcl as sysdba
```

```
Connected.
```

```
SQL>
```