

Sprawdzamy i w razie potrzeby konfigurujemy proces nasłuchu sieciowego zainstalowanej bazy danych

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

W razie potrzeby możemy wystartować proces nasłuchu sieciowego wpisując:

`lsnrctl start`

Warto sprawdzić, czy w katalogu `$ORACLE_HOME/network/admin` znajduje się plik `listener.ora` i jaka jest jego zawartość.

Jeśli nie został w nim zdefiniowany proces nasłuchu sieciowego, to warto to zrobić za pomocą Oracle Net Configuration Assistant

```
[oracle@localhost ~]$ netca
```



Oracle Net Configuration Assistant: Listener Configuration, Listener



For remote connections to be made to your Oracle database, you must configure a Oracle Net listener. The Oracle Net Configuration Assistant allows you to add, reconfigure, rename or delete a listener.

Select what you want to do:

- Add
- Reconfigure
- Delete
- Rename

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Oracle Net Configuration Assistant: Listener Configuration, Listener Name



For remote connections to be made to your Oracle database you must have at least one Oracle Net listener. Enter the name of the listener you want to create:

Listener name:

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Oracle Net Configuration Assistant: Listener Configuration, Select Protocols




You can configure the listener to accept connections over one or more protocols. Select which protocols you want to configure for this listener. Keep your configuration as simple as possible by configuring only the protocols you need.

Available Protocols	Selected Protocols
TCPS NMP	TCP IPC

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Oracle Net Configuration Assistant: Listener Configuration, TCP/IP Protocol

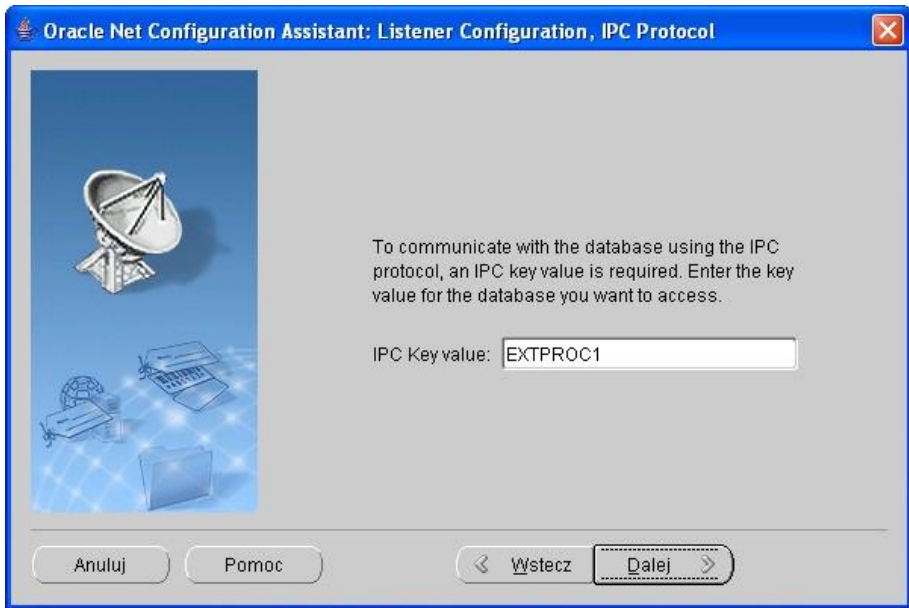


Which TCP/IP port number should the listener use? The port number selected should not be used by any other software on this computer.

Use the standard port number of 1521

Use another port number:

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W efekcie do pliku listener.ora trafiają następujące wpisy:

```
# listener.ora Network Configuration File:
/u01/app/oracle/product/11.2.0/db_1/network/admin/listener.ora
# Generated by Oracle configuration tools.
SID_LIST_LISTENER =
  (SID_LIST =
    (SID_DESC =
      (SID_NAME = PLSExtProc)
      (ORACLE_HOME = /u01/app/oracle/product/11.2.0/db_1)
      (PROGRAM = extproc)
    )
  )
LISTENER =
  (DESCRIPTION_LIST =
    (DESCRIPTION =
      (ADDRESS = (PROTOCOL = IPC) (KEY = EXTPROC1))
      (ADDRESS = (PROTOCOL = TCP) (HOST = serverhost.serverdomain) (PORT = 1521))
    )
  )
```

Wówczas możemy zamknąć i ponownie uruchomić proces LISTENER, wpisując w konsoli systemu operacyjnego jako użytkownik oracle:

```
lsnrctl stop
```

a następnie:

```
lsnrctl start
```

I po krótkiej chwili nasza baza powinna zostać zarejestrowana przez proces nasłuchu LISTENER

Następnie dobrze jest zdefiniować metody autentykacji dostępu klienta do serwera bazy danych, które są zapisywane do pliku \$ORACLE_HOME/network/admin/sqlnet.ora



Oracle Net Configuration Assistant: Naming Methods Configuration, Select Naming Me... [X]

Select the naming methods you want to use for resolving connect identifiers, and the order in which you want them used. Recommended naming methods have been preselected for you.

Available Naming Methods

NIS External Naming
Directory Naming
DCE CDS External Nar

Selected Naming Methods

Local Naming
Easy Connect Naming

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< Wstecz

Dalej >

Naming Methods Configuration Done [X]

Naming Methods configuration complete!

Anuluj

Pomoc

< Wstecz

Dalej >

Teraz można zdefiniować tzw. lokalne metody nazw dla klienta bazy danych, które określają sieciową nazwę bazy danych i deskryptor połączenia do serwera bazy danych



Oracle Net Configuration Assistant: Net Service Name Configuration



To access an Oracle database, or other service, across the network you use a net service name. The Oracle Net Configuration Assistant allows you to work with net service names resolved using local naming.

Select what you want to do:

- Add
- Reconfigure
- Delete
- Rename
- Test

Anuluj

Pomoc

< Wstecz

Dalej >

Oracle Net Configuration Assistant: Net Service Name Configuration, Service Name



Each Oracle database or service has a service name. An Oracle database's service name is normally its global database name. Enter the service name of the database or other service you want to access.

Service Name:

Anuluj

Pomoc

Wstecz

Dalej

Oracle Net Configuration Assistant: Net Service Name Configuration, Select Protocols



To communicate with the database across a network, a network protocol is used. Select the protocol used for the database you want to access.

TCP

TCPS

IPC

NMP

Anuluj

Pomoc

Wstecz

Dalej

Oracle Net Configuration Assistant: Net Service Name Configuration, TCP/IP Protocol



To communicate with the database using the TCP/IP protocol, the database computer's host name is required. Enter the host name for the computer where the database is located.

Host name:

A TCP/IP port number is also required. In most cases the standard port number should be used.

Use the standard port number of 1521

Use another port number:

Anuluj

Pomoc

< Wstecz

Dalej >

Oracle Net Service Name Configuration, Test



You can verify that an Oracle database can be reached, using the information provided, by performing a connection test.

Would you like to test that a connection can be made to the database?

No, do not test

Yes, perform a test

Anuluj

Pomoc

< Wstecz

Dalej >

Change Login

Change Login

Username:

Password:

OK

Cancel

Assistant: Net Service Name Configuration, Connecting

Wait while the Oracle Net Configuration Assistant tries to connect to the database using the information you provided...

Details:

Connecting...ORA-12541: TNS:brak nasłuchu
The test did not succeed.

Some of the information you provided may be incorrect. Click Back to review the information provided for net service name, or Change Login to change username.



Anuluj

Pomoc

Change Login

Change Login

Username:

Password:

OK

Cancel

Assistant: Net Service Name Configuration, Connecting

Wait while the Oracle Net Configuration Assistant tries to connect to the database using the information you provided...

Details:

Connecting...ORA-12514: TNS:nasłuch nic obecnie nie wie o usłudze zażądaney w deskrytorze połączenia
The test did not succeed.

Some of the information you provided may be incorrect. Click Back to review the information provided for net service name, or Change Login to change username.



Change Login

Anuluj

Pomoc

Wstecz

Dalej

Change Login

Change Login

Username:

Password:

OK

Cancel

Oracle Net Configuration Assistant: Net Service Name Configuration, Connecting

Wait while the Oracle Net Configuration Assistant tries to connect to the database using the information you provided...

Details:

Connecting...ORA-01017: niepoprawna nazwa użytkownika/hasła; odmowa zalogowania
The test did not succeed.

Some of the information you provided may be incorrect. Click Back to review the information provided for net service name, or Change Login to change username.

Change Login

Anuluj

Pomoc



Oracle Net Configuration Assistant: Net Service Name Configuration, Connecting

Wait while the Oracle Net Configuration Assistant tries to connect to the database using the information you provided...

Details:

Connecting...Test successful.

Change Login

Anuluj

Pomoc

Wstecz

Dalej

Deskryptor połączenia wraz z sieciową nazwą bazy danych są zapisywane do pliku

\$ORACLE_HOME/network/admin/tnsnames.ora

Przykładowy plik tnsnames.ora:

```
-----  
ORCL =  
(DESCRIPTION =  
  (ADDRESS = (PROTOCOL = TCP)(HOST = serverhost.serverdomain)(PORT = 1521))  
  (CONNECT_DATA =  
    (SERVER = DEDICATED)  
    (SERVICE_NAME = edudb)  
  )  
)  
  
EXTPROC_CONNECTION_DATA =  
(DESCRIPTION =  
  (ADDRESS_LIST =  
    (ADDRESS = (PROTOCOL = IPC)(KEY = EXTPROC1))  
  )  
  (CONNECT_DATA =  
    (SID = PLSExtProc)  
    (PRESENTATION = RO)  
  )  
)  
  
UMAIN =  
(DESCRIPTION =  
  (ADDRESS_LIST =  
    (ADDRESS = (PROTOCOL = TCP)(HOST = oracle1.pkif.us.edu.pl)(PORT = 1521))  
  )  
  (CONNECT_DATA =  
    (SERVICE_NAME = umain.pkif.us.edu.pl)  
  )  
)  
-----
```

Poprawność deskryptora połączenia można sprawdzić komendą `tnsping`, np.

```
tnsping orcl
```