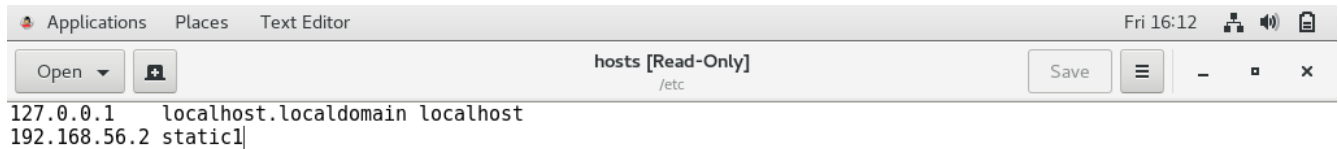


Listener Setup

This guide will setup the listener for our Database. The listener is used to allow remote connections to the Database. This is very important and needs to be configured properly in order to remotely connect through sqldeveloper.

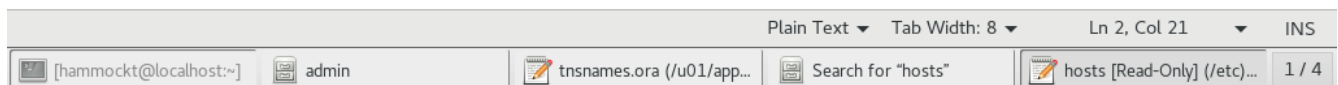
1. Open 'etc/hosts' with a text editor. The first line contains an IP address and some generic names. The generic names are used so you can reference the server without having to use a IP address. Create a new entry by using your current IP address and give it a unique generic name. If your IP address is not static then you will have to change this value every time you log in.



The screenshot shows a text editor window titled 'hosts [Read-Only] /etc'. The window has a menu bar with 'Applications', 'Places', and 'Text Editor'. Below the menu bar is a toolbar with an 'Open' button, a 'Save' button, and window control buttons. The text area contains the following content:

```
127.0.0.1    localhost.localdomain localhost
192.168.56.2 static1|
```

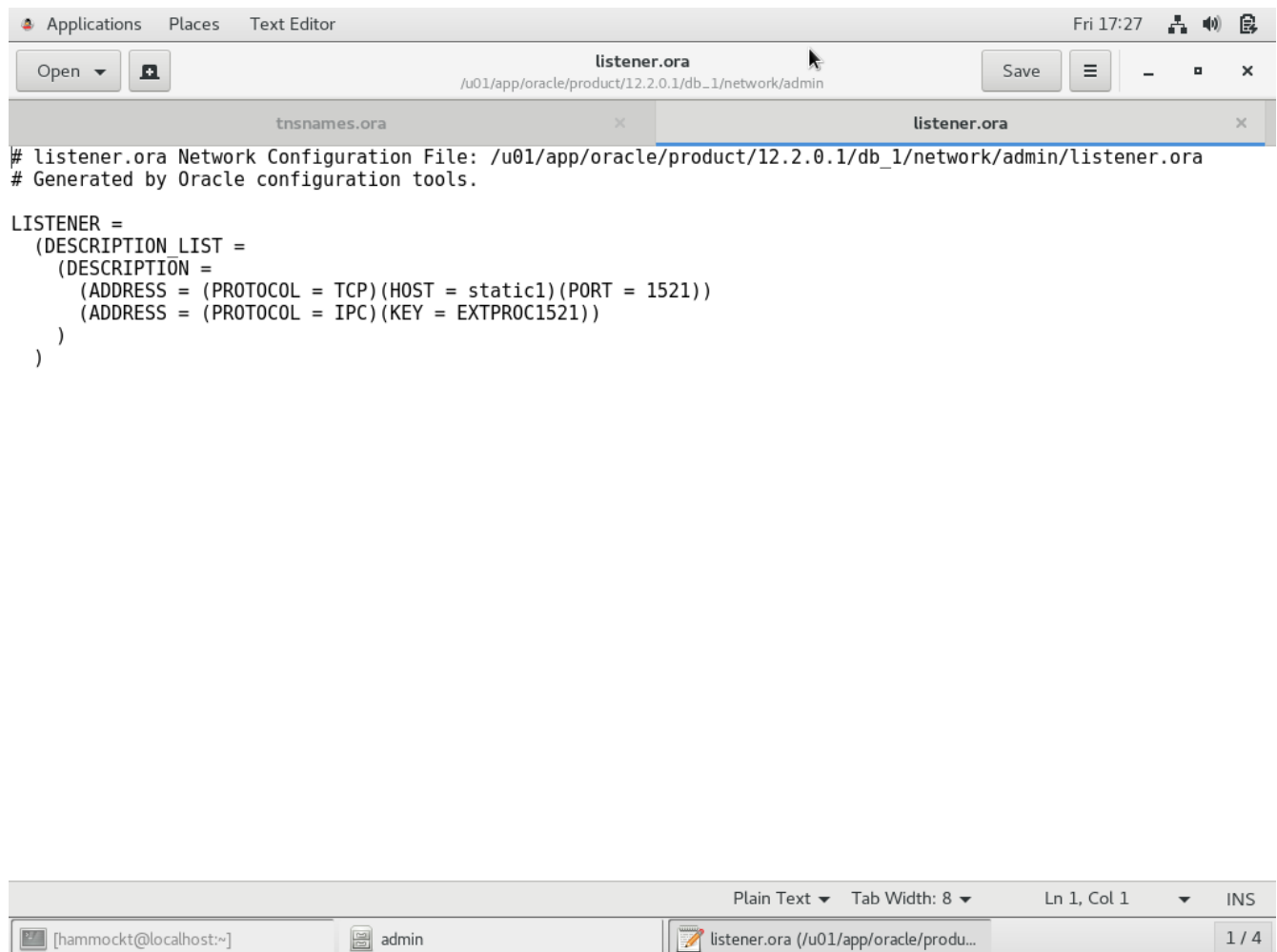
I



The screenshot shows a terminal window with a title bar that includes 'Plain Text', 'Tab Width: 8', 'Ln 2, Col 21', and 'INS'. The terminal has a tab bar with the following tabs: '[hammockt@localhost:~]', 'admin', 'tnsnames.ora (/u01/app...', 'Search for "hosts"', and 'hosts [Read-Only] (/etc)...'. The terminal content shows the command prompt and the command being entered:

```
[hammockt@localhost:~] admin tnsnames.ora (/u01/app... Search for "hosts" hosts [Read-Only] (/etc)... 1 / 4
```

2. Next we will configure the listener. We will need to modify 'listener.ora' which should be located under 'ORACLE_HOME/network/admin/'. Change host to the generic name that you made in the last step and make sure it is listening on port 1521.



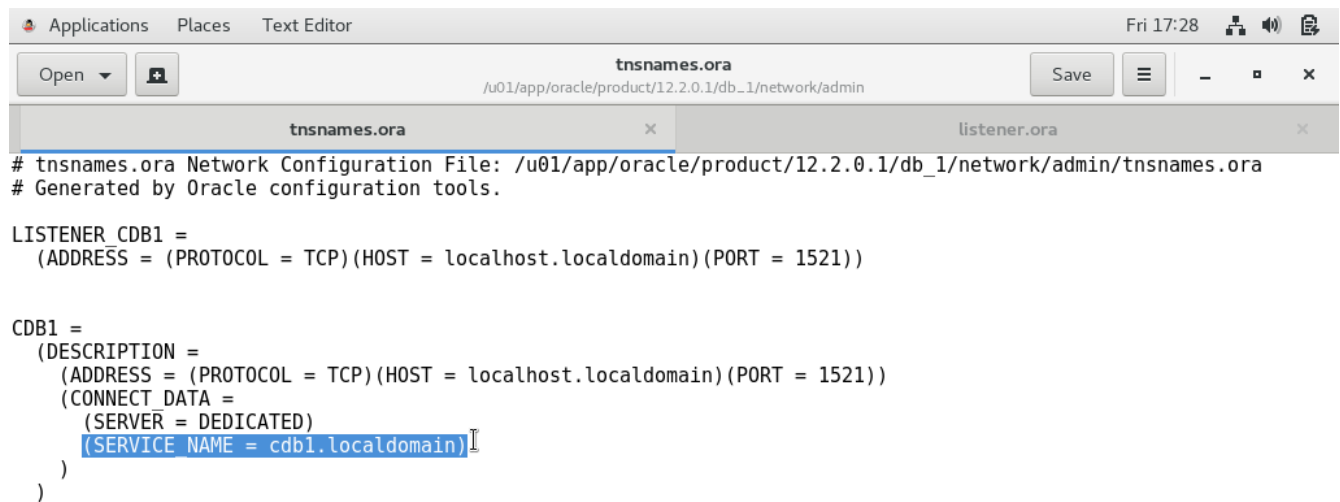
The image shows a text editor window with the file 'listener.ora' open. The file path is '/u01/app/oracle/product/12.2.0.1/db_1/network/admin'. The content of the file is as follows:

```
# listener.ora Network Configuration File: /u01/app/oracle/product/12.2.0.1/db_1/network/admin/listener.ora
# Generated by Oracle configuration tools.

LISTENER =
  (DESCRIPTION_LIST =
    (DESCRIPTION =
      (ADDRESS = (PROTOCOL = TCP)(HOST = static1)(PORT = 1521))
      (ADDRESS = (PROTOCOL = IPC)(KEY = EXTPROC1521))
    )
  )
```

Below the text editor, there is a terminal window showing the command prompt. The terminal has three tabs: '[hammockt@localhost:~]', 'admin', and 'listener.ora (/u01/app/oracle/produ...'. The terminal status bar shows 'Plain Text', 'Tab Width: 8', 'Ln 1, Col 1', and 'INS'. The terminal content is currently empty.

3. In that same folder there is a file named “tnsnames.ora”. Inside of that file it contains the service name for our Database. Keep note of this because you will need this later when you are connecting using sqldeveloper.



The screenshot shows a text editor window titled "tnsnames.ora" with the path "/u01/app/oracle/product/12.2.0.1/db_1/network/admin". The file content is as follows:

```
# tnsnames.ora Network Configuration File: /u01/app/oracle/product/12.2.0.1/db_1/network/admin/tnsnames.ora
# Generated by Oracle configuration tools.

LISTENER_CDB1 =
  (ADDRESS = (PROTOCOL = TCP)(HOST = localhost.localdomain)(PORT = 1521))

CDB1 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = localhost.localdomain)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = cdb1.localdomain)
    )
  )
```

