

Oracle Database - Using Netmgr

Introduction

In this lab, you will explore Oracle Network Manager (`netmgr`) to understand the configuration of existing network components in an Oracle 19c database. Specifically, you will:

- Explore a pre-configured listener named `Listener` .
- Explore a pre-configured service naming for `cdblab` .

Prerequisites

- Oracle 19c installed and running.
- Basic understanding of Oracle networking concepts.
- Access to the Oracle Net Manager tool (`netmgr`).
- Pre-configured listener named `Listener` and service naming `cdblab` .

Steps:

1. Open a Terminal and Set Environment to `CDBLAB`

Open a terminal and set your environment to your database SID to `CDBLAB` :

```
export ORACLE_SID=CDBLAB
```

2. Verify the Databases `orclcdb` is in `/etc/oratab`

Verify the presence of `orclcdb` in the `/etc/oratab` file:

```
more /etc/oratab
```

Expected Output:

```
orclcdb:/u01/app/oracle/product/19.3.0/dbhome_1:N
...
CDBLAB:/u01/app/oracle/product/19.3.0/dbhome_1:N
```

3. Invoke Oracle Net Manager to Create the `testorcl` Net Service

Start Oracle Net Manager:

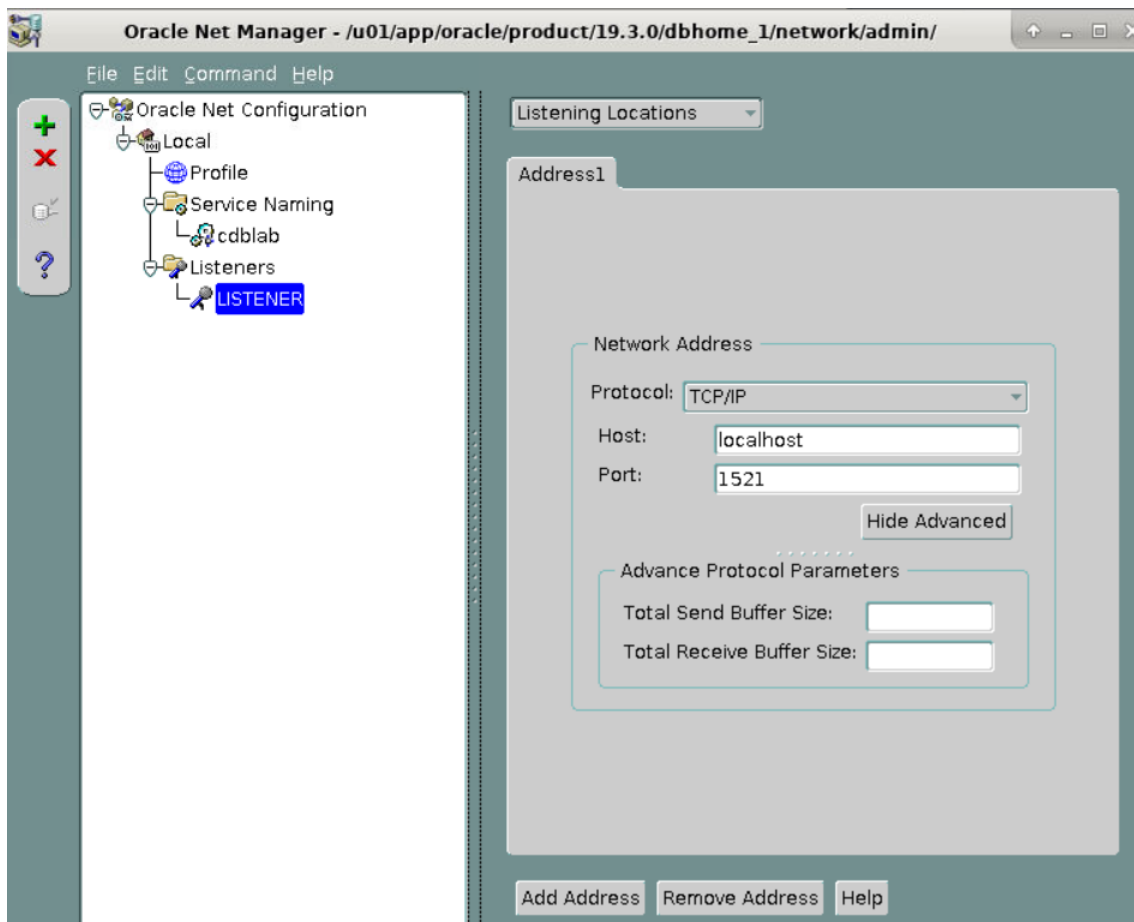
```
netmgr
```

Exploring Listener Configuration

1. In the Oracle Net Manager window, expand the `Local` node.
2. Click on `Listeners` .
3. Select the listener named `Listener` .
4. Review the configuration details such as:
 - **Protocol:** Should be set to TCP.
 - **Host:** The hostname or IP address of your Oracle server.
 - **Port:** Should be 1521 (default).

Steps:

1. In the Oracle Net Manager window, expand the `Local` node.
2. Click on `Listeners`.
3. Click on the listener named `Listener`.
4. Navigate through the tabs to view configuration details:
 - **General:** Shows the listener name, protocol, host, and port.
 - **Listening Locations:** Provides details on where the listener is listening.
 - **Database Services:** Lists the database services associated with the listener.



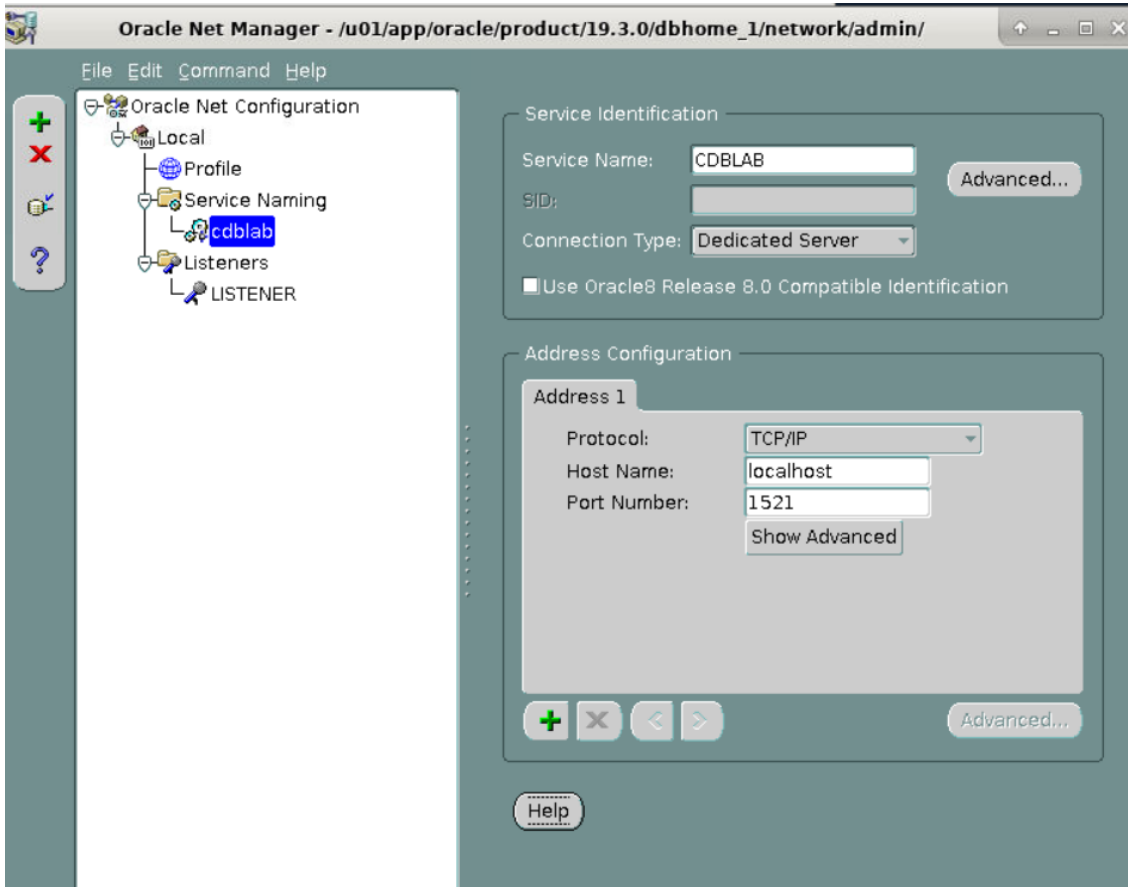
Exploring Service Naming

1. In the Oracle Net Manager window, expand the `Service Naming` node.
2. Click on the service naming `cdblab`.
3. Review the configuration details such as:
 - **Protocol:** Should be set to TCP.
 - **Host:** The hostname or IP address of your Oracle server.
 - **Port:** Should be 1521.
 - **Service Name:** Should be `cdblab`.

Steps:

1. In the Oracle Net Manager window, expand the `Local` node.
2. Click on `Service Naming`.

3. Click on the service naming `cdblabb`.
4. Navigate through the tabs to view configuration details:
 - **General:** Shows the service name, protocol, host, and port.
 - **Address:** Provides the connection details for the service.



Verifying the Configuration

1. Save the configuration by selecting `File -> Save Network Configuration` if any changes were made.
2. Open a terminal or command prompt.
3. Use the `lsnrctl` command to check the status of the listener:

```
lsnrctl status Listener
lsnrctl start Listener
```

4. Verify that the listener is running and the service `cdblabb` is listed.
5. Use the `tnsping` command to verify the service naming:

```
tnsping cdblabb
```

```
[oracle@59e157d1b7c9 admin]$  
[oracle@59e157d1b7c9 admin]$ tnsping cdblab  
  
TNS Ping Utility for Linux: Version 19.0.0.0.0 - Production on 17-JUL-2024 17:32:54  
  
Copyright (c) 1997, 2019, Oracle. All rights reserved.  
  
Used parameter files:  
  
Used TNSNAMES adapter to resolve the alias  
Attempting to contact (DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP)  
(HOST = localhost)(PORT = 1521))) (CONNECT_DATA = (SERVER = DEDICATED) (SERVICE_  
NAME = CDBLAB)))  
OK (0 msec)  
[oracle@59e157d1b7c9 admin]$
```