

# ORACLE 19C CLIENT INSTALLATION ON WINDOW & LINUX

- **On Window**

## 1. Download Client software.

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Contains examples of how to use the Oracle Database. Download if you are new to Oracle and want to try some of the examples presented in the Documentation

### Oracle Database 19c Client (19.3) for Microsoft Windows x64 (64-bit)

Download	Description
<a href="#">WINDOWS.X64_193000_client_home.zip</a>	(64-bit) (924,022,453 bytes) (sha256sum - a7d5ba7d3dac84fceb5ddb50aedd3125b52d94f26bab9924bdab6f6d00d2c7e )
<a href="#">WINDOWS.X64_193000_client_gold.zip</a>	(64-bit) (1,043,502,535 bytes) (sha256sum - 3fa278fe33e0cd3bb6d6c84f34b5698962c1feeb74cced1c9713435ebdb2a24f )

Contains the Oracle Client Libraries for Windows. Download if you want the client libraries only.  
There are two installation client archive file types. The first file is the client installation binary and the second file is the client gold image. Download the appropriate zip file based on your installation type.

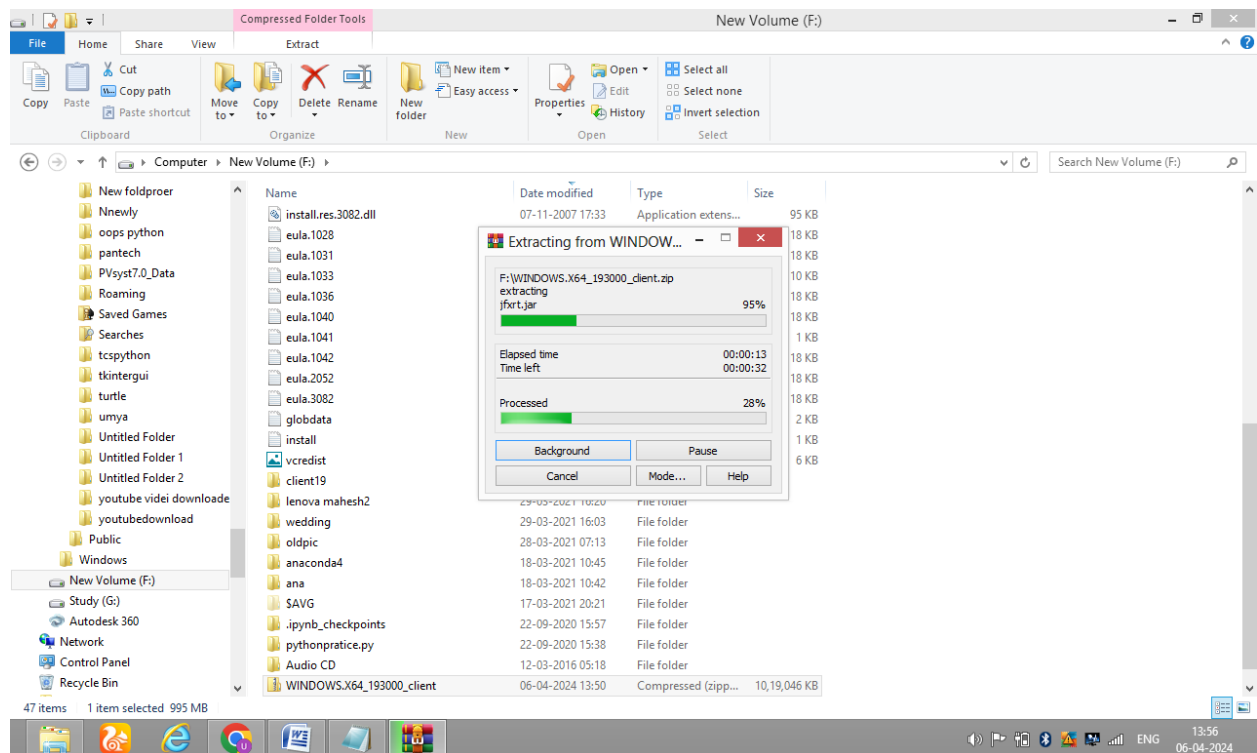
Oracle Database 19c Client (19.3) for Microsoft Windows (32-bit)

Talk to sales

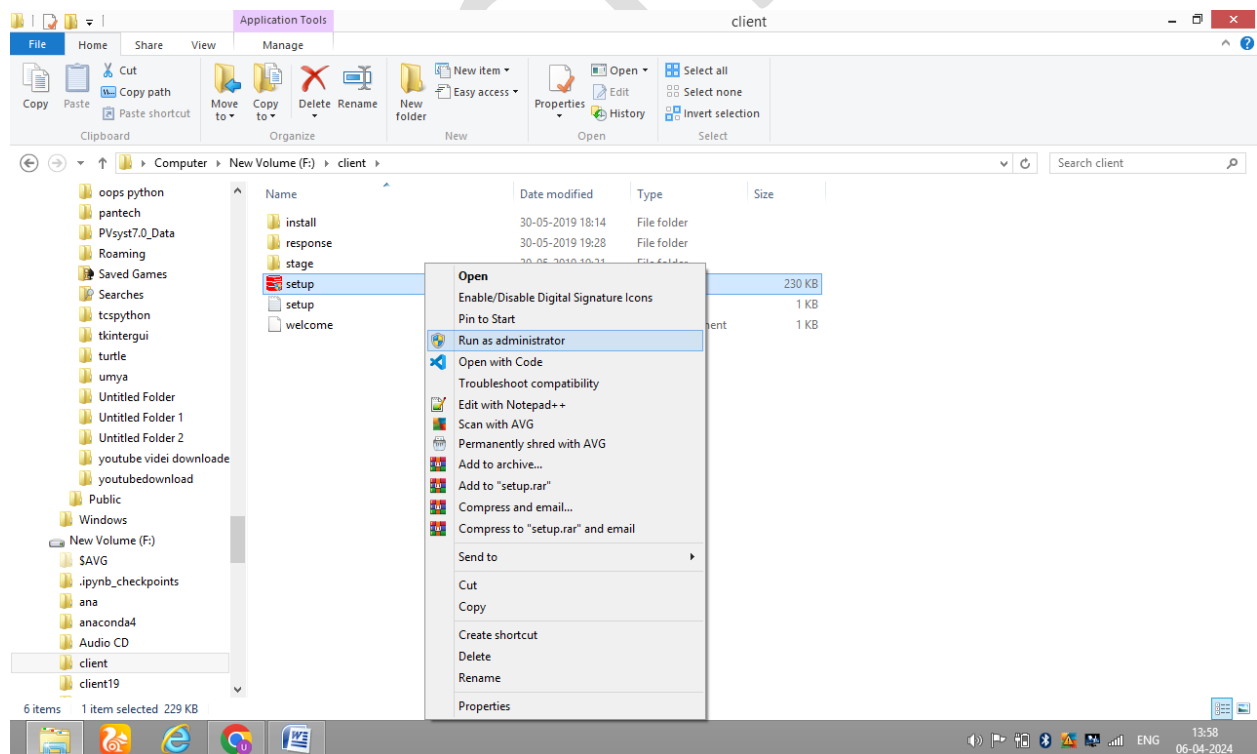
## 2. Create directory for client home:

F:\client19\app\oracle\product\client\_home

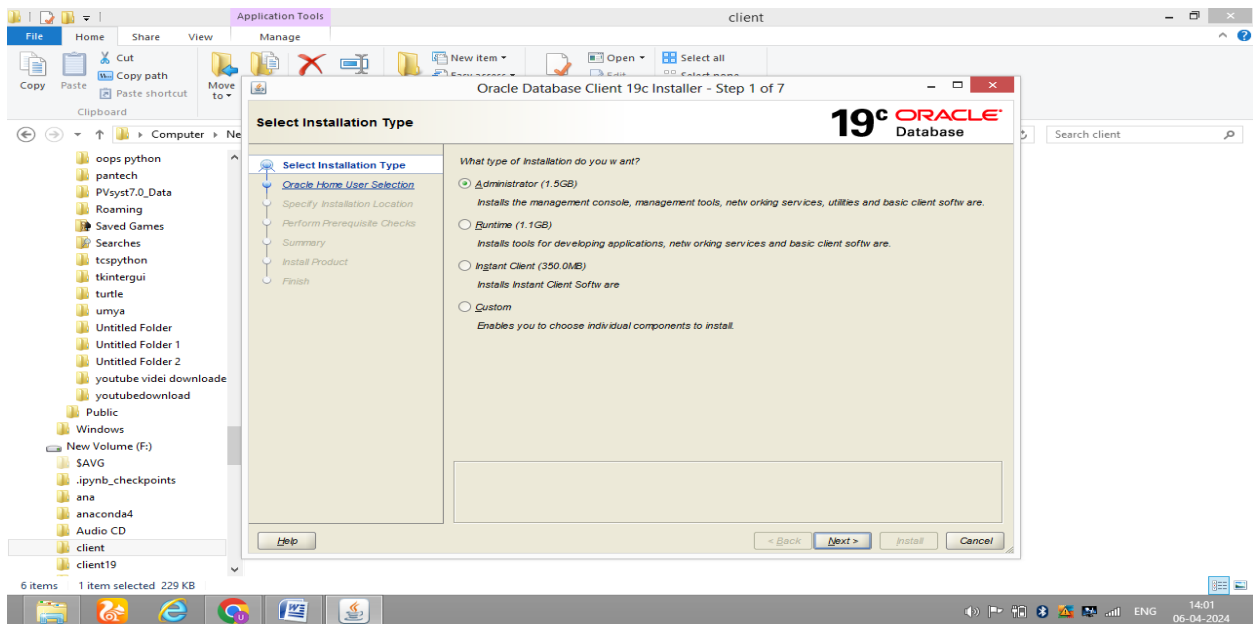
## 3. After download ,unzip the file



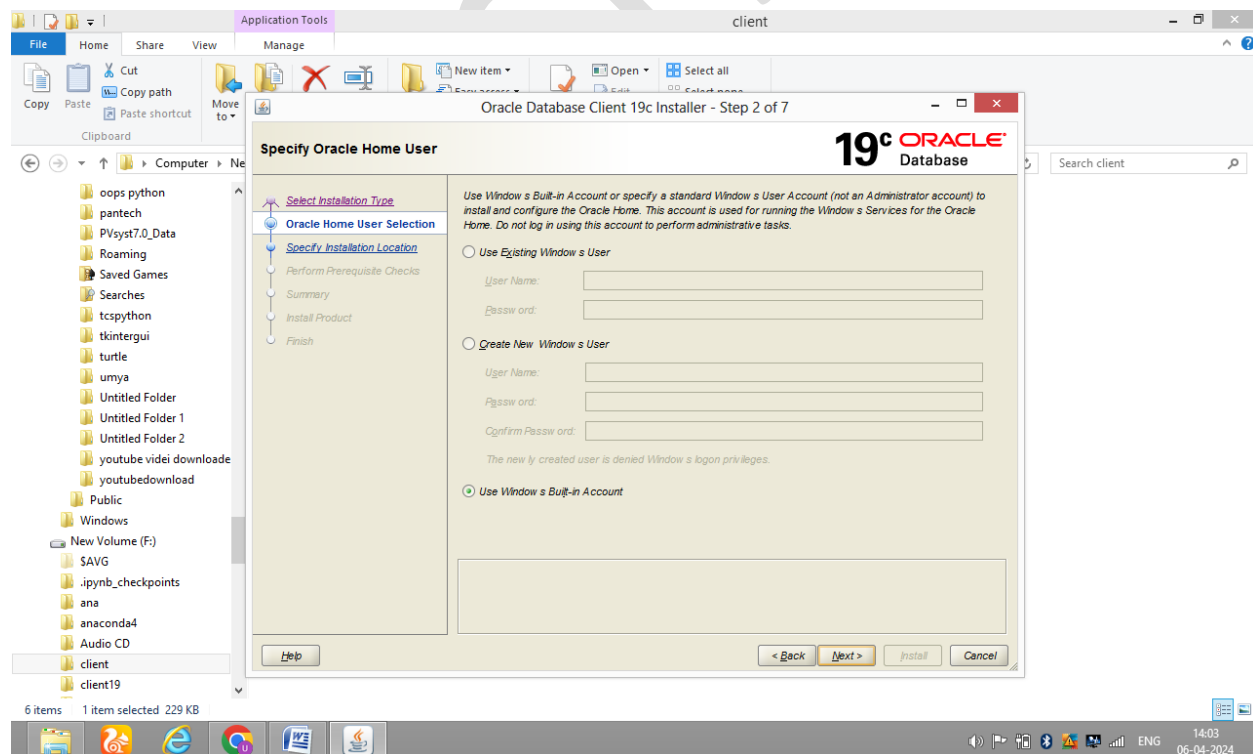
#### 4. Start installation:



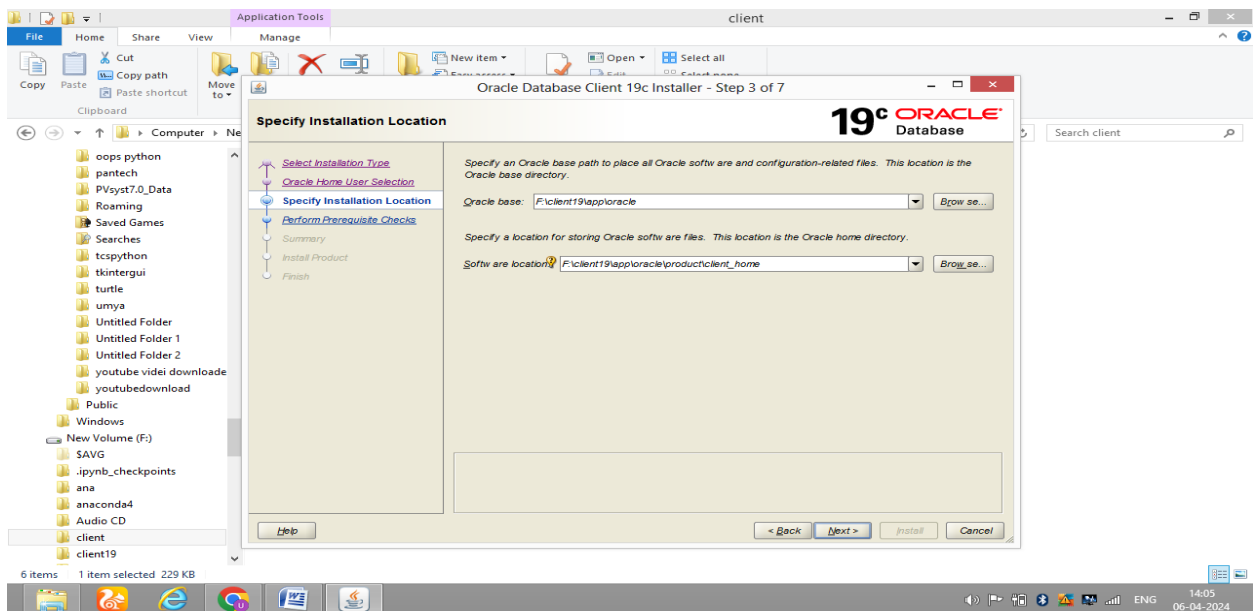
#### 5. Choose the type of client you want to install



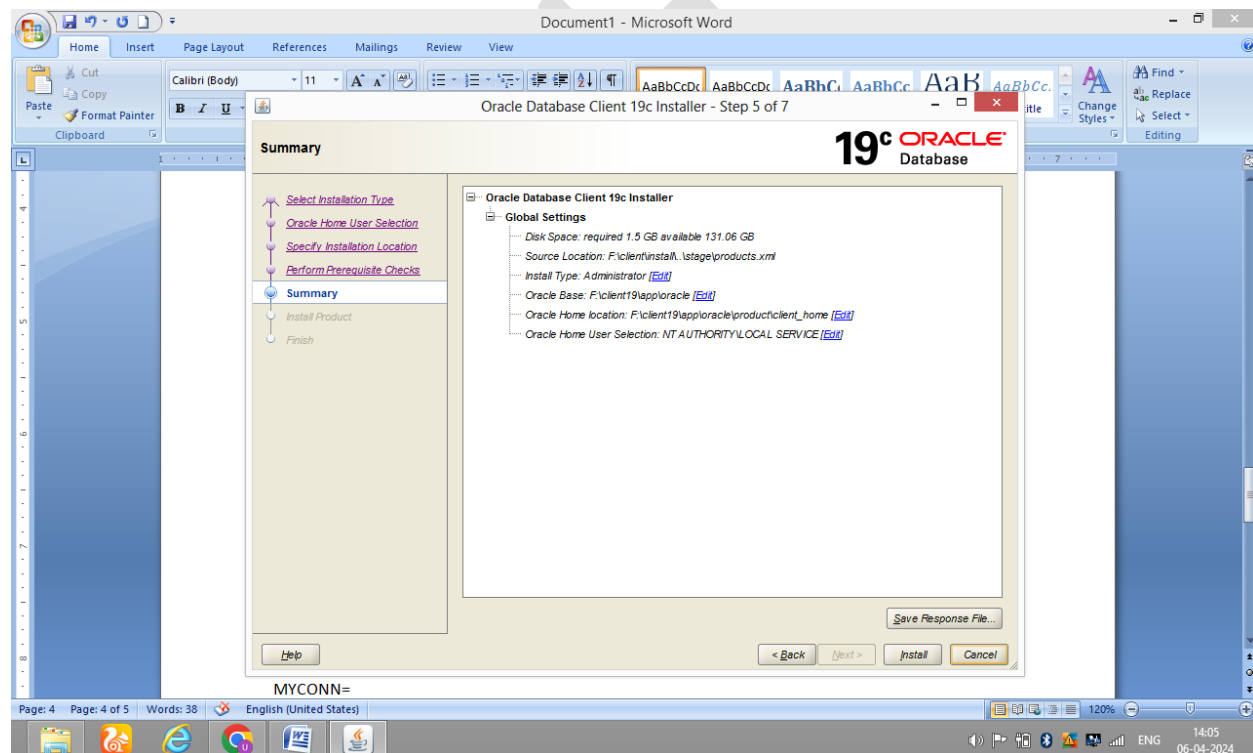
## 6. Provide window's username

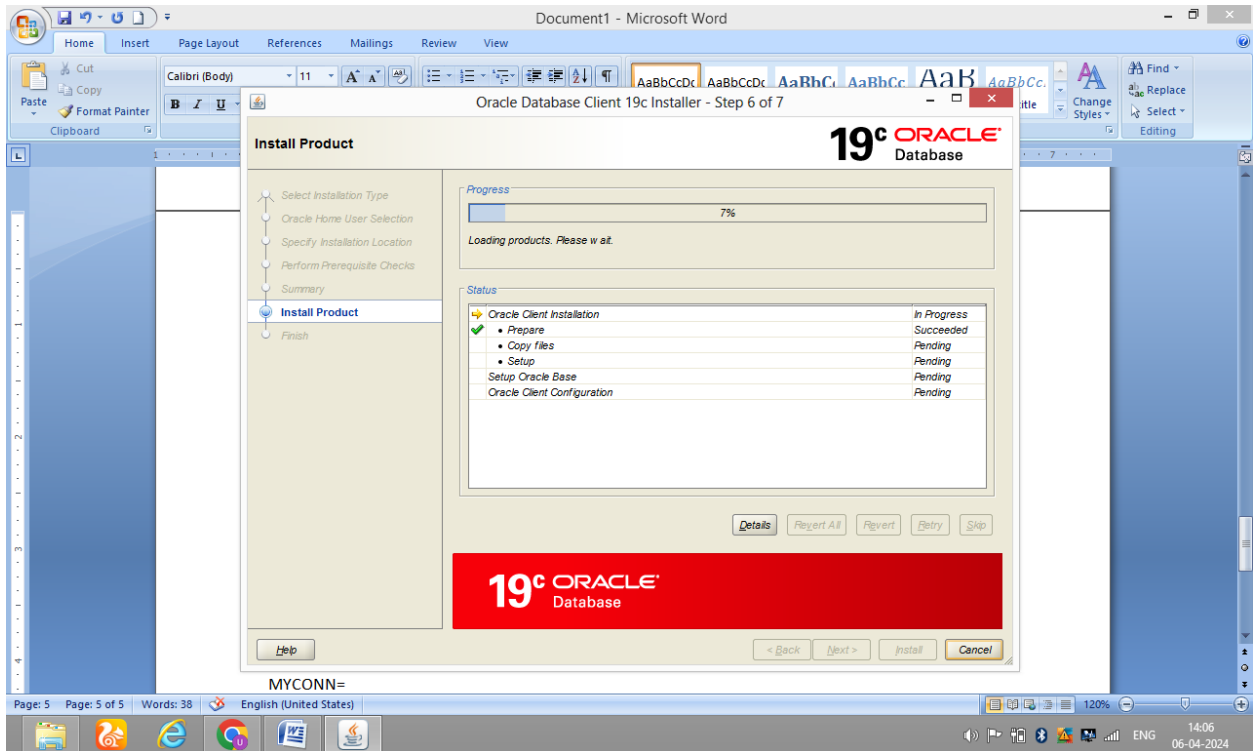


## 7. Provide the home and Base directory

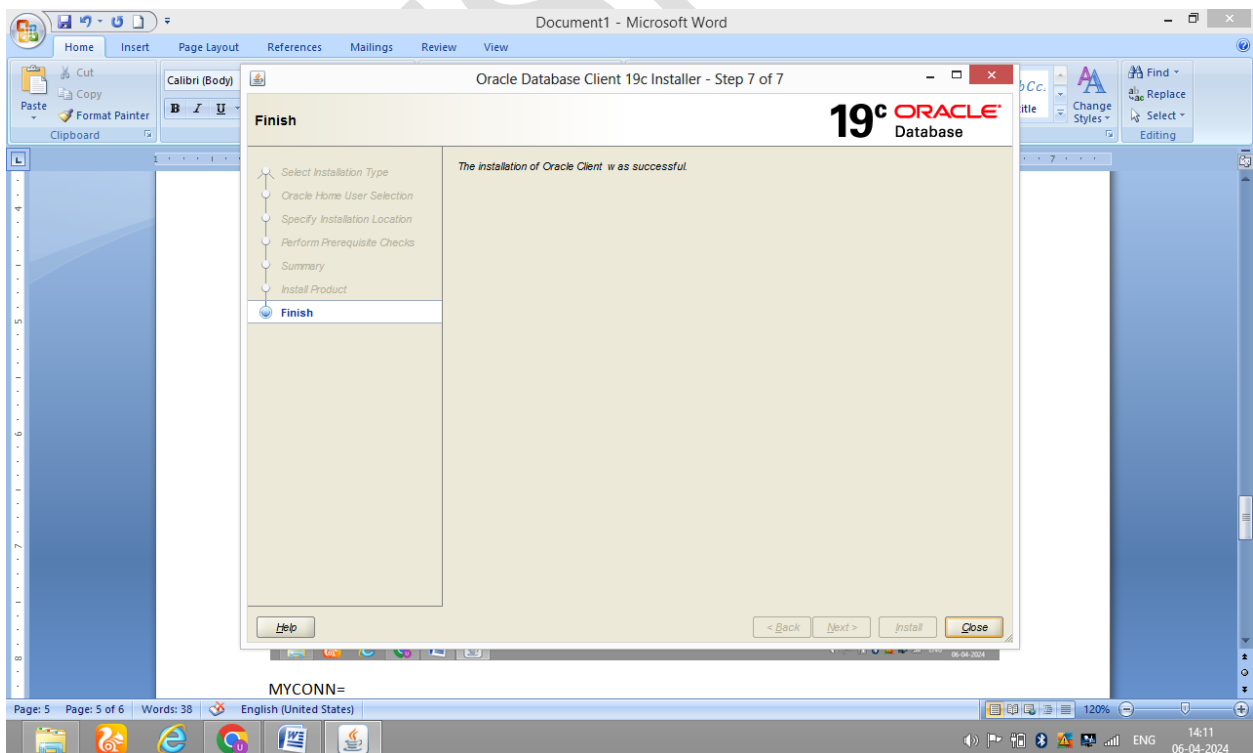


## 8. Check the summary





## 9. This screen Provides Info That Oracle Lient installation is complted Sucessfully



## 10.Let's configure TNS entries for remote database connection.

Create tnsnames.ora file under "F:\client19\app\oracle\product\client\_home\network\admin\" location.

Content of tnsnames.ora file :

---

```
MYCONN=
(DESCRIPTION =
  (ADDRESS_LIST =
    (ADDRESS = (PROTOCOL = TCP)(HOST = 192.168.0.111)(PORT = 1521))
  )
  (CONNECT_DATA =
    (SERVICE_NAME = prodpdb)
  )
)
```

---

```
C:\Windows\system32\cmd.exe
F:\client19\app\oracle\product\client_home\network\admin\sqlnet.ora

Used TNSNAMES adapter to resolve the alias
Attempting to contact (DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP)
(HOST = 192.168.0.111)(PORT = 1521))) (CONNECT_DATA = (SERVICE_NAME = prodpdb)))
TNS-12547: TNS:lost contact

F:\>ping 192.168.0.111

Pinging 192.168.0.111 with 32 bytes of data:
Request timed out.
Reply from 192.168.0.111: bytes=32 time=3ms TTL=64
Reply from 192.168.0.111: bytes=32 time=165ms TTL=64
Reply from 192.168.0.111: bytes=32 time=122ms TTL=64

Ping statistics for 192.168.0.111:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 165ms, Average = 96ms

F:\>ping 192.168.0.111

Pinging 192.168.0.111 with 32 bytes of data:
Request timed out.
Reply from 192.168.0.111: bytes=32 time=3ms TTL=64
Reply from 192.168.0.111: bytes=32 time=4ms TTL=64
Reply from 192.168.0.111: bytes=32 time=7ms TTL=64

Ping statistics for 192.168.0.111:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 7ms, Average = 4ms

F:\>
F:\>
F:\>
F:\>
F:\>tnsping MYCONN

TNS Ping Utility for 64-bit Windows: Version 19.0.0.0.0 - Production on 08-APR-2024 10:50:53

Copyright (c) 1997, 2019, Oracle. All rights reserved.

Used parameter files:
F:\client19\app\oracle\product\client_home\network\admin\sqlnet.ora

Used TNSNAMES adapter to resolve the alias
Attempting to contact (DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP)
(HOST = 192.168.0.111)(PORT = 1521))) (CONNECT_DATA = (SERVICE_NAME = prodpdb)))
OK (60 msec)
F:\>
```

## 11.Connection to Database

```
C:\Windows\system32\cmd.exe - sqlplus APPUSER/password@MYCONN
Pinging 192.168.0.111 with 32 bytes of data:
Request timed out.
Reply from 192.168.0.111: bytes=32 time=3ms TTL=64
Reply from 192.168.0.111: bytes=32 time=4ms TTL=64
Reply from 192.168.0.111: bytes=32 time=7ms TTL=64
Ping statistics for 192.168.0.111:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 7ms, Average = 4ms
F:\>
F:\>
F:\>
F:\>
F:\>tnsping MYCONN
TNS Ping Utility for 64-bit Windows: Version 19.0.0.0.0 - Production on 08-APR-2024 10:50:53
Copyright (c) 1997, 2019, Oracle. All rights reserved.
Used parameter files:
F:\client19\app\oracle\product\client_home\network\admin\sqlnet.ora
Used TNSNAMES adapter to resolve the alias
Attempting to contact (DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP)
(HOST = 192.168.0.111)(PORT = 1521))) (CONNECT_DATA = (SERVICE_NAME = prodpdb)))
OK (60 msec)
F:\>
F:\>
F:\>
F:\>sqlplus APPUSER/password@MYCONN
SQL*Plus: Release 19.0.0.0.0 - Production on Mon Apr 8 10:52:30 2024
Version 19.3.0.0.0
Copyright (c) 1982, 2019, Oracle. All rights reserved.
Last Successful login time: Mon Apr 08 2024 10:23:31 +05:30
Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0
SQL> desc dept
   Name                      Null?    Type
-----
DEPTNO                      NOT NULL NUMBER(2)
DNAME                       VARCHAR2(14)
LOC                          VARCHAR2(13)
SQL>
```

*Successfully connected to target oracle database from window server.*



- **On Linux**

1. **Download and copy the file to the server.**

[LINUX.X64 193000 client.zip](#)

<https://www.oracle.com/in/database/technologies/oracle19c-linux-downloads.html>

#### Oracle Database 19c Client (19.3) for Linux x86-64

Download	Description
 <a href="#">LINUX.X64_193000_client.zip</a>	(64-bit) (1,134,912,540 bytes) (sha256sum - ee33637947d760413790d16bd11fc273a6e8c0ee3193e215:
 <a href="#">LINUX_193000_client.zip</a>	(32-bit) (1,018,382,779 bytes) (sha256sum - 4ec2b1d4e311febddcbbb3597050f20c5c7afe30e061fbd8:
 <a href="#">LINUX.X64_193000_client_home.zip</a>	(64-bit) (987,216,967 bytes) (sha256sum - df3ef12bc19d03cb3331ccdf3490ec361b6ed5d243da32df5:
 <a href="#">LINUX_193000_client_home.zip</a>	(32-bit) (917,311,326 bytes) (sha256sum - 256f01d782e884dce3bf0f515c8b562b22105c1698cf6a9e:

2. **Unzip the .zip file.**

```
drwxrwxr-x. 4 mahesh mahesh      41 Apr  7 16:10 app
drwxr-xr-x. 5 mahesh mahesh      90 Apr 17  2019 client
-rwxrwxr-x. 1 mahesh mahesh 1134912540 Apr  8 09:59 LINUX64_193000_client.zip
[mahesh@node1 client19]$
[mahesh@node1 client19]$
```

```
[mahesh@node1 response]$ ls -lrth
total 16K
-rw-rw-r--. 1 mahesh mahesh 5.4K Jan 19  2019 client_install.rsp
-rwxrwxr-x. 1 mahesh mahesh 6.1K Apr  6  2019 netca.rsp
[mahesh@node1 response]$
[mahesh@node1 response]$ pwd
/home/mahesh/client19/client/response
```

3. **Edit the response file for installation.**

vi client\_install.rsp

```
#
oracle.install.responseFileVersion=/oracle/install/rspfmt_clientinstall_response_schema_v19.0.0
#-----
# Unix group to be set for the inventory directory.
#-----
UNIX_GROUP_NAME=mahesh
#-----
# Inventory location.
#-----
INVENTORY_LOCATION=/home/mahesh/client19/app/oraInventory
#-----
# Complete path of the Oracle Home
#-----
ORACLE_HOME=/home/mahesh/client19/app/product/client_home
#-----
# Complete path of the Oracle Base.
#-----
ORACLE_BASE=/home/mahesh/client19/app/
#-----
#Name      : INSTALL_TYPE
#Datatype  : String
#Description: Installation type of the component.
#
#           The following choices are available. The value should contain
#           only one of these choices.
#           - Administrator
#           - Runtime
#           - InstantClient
#           - Custom
#
#Example    : INSTALL_TYPE = Administrator
#-----
oracle.install.client.installType=Administrator
```

#### 4. Start the Client installation:

**./runInstaller -ignoreSysPrereqs -showProgress -silent -responseFile  
/home/mahesh/client19/client/response/client\_install.rsp**

```
total 20
drwxr-xr-x. 4 mahesh mahesh 221 Apr 17 2019 install
drwxrwxr-x. 2 mahesh mahesh 49 Apr 8 10:03 response
-rwxr-xr-x. 1 mahesh mahesh 8854 Apr 17 2019 runInstaller
drwxr-xr-x. 15 mahesh mahesh 4096 Apr 17 2019 stage
-rwxrwxr-x. 1 mahesh mahesh 500 Feb 6 2013 welcome.html
[mahesh@node1 client]$
[mahesh@node1 client]$
[mahesh@node1 client]$ ./runInstaller -ignoreSysPrereqs -showProgress -silent -responseFile /home/mahesh/client19/client/response/client_install.rsp
Starting Oracle Universal Installer...

Checking Temp space: must be greater than 415 MB.   Actual 4253 MB   Passed
Checking swap space: must be greater than 150 MB.   Actual 2047 MB   Passed
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2024-04-08 10-04-26AM. Please wait ...
```

```

Finish Setup in progress.
.....
Finish Setup successful.
The installation of Oracle Client 19c was successful.
Please check '/home/mahesh/client19/app/oraInventory/logs/silentInstall2024-04-08_10-04-26AM.log' for more details.

Setup Oracle Base in progress.

Setup Oracle Base successful.
..... 67% Done.

Prepare for configuration steps in progress.

Prepare for configuration steps successful.
..... 82% Done.

Oracle Client Configuration in progress.

Oracle Client Configuration successful.
..... 96% Done.

As a root user, execute the following script(s):
1. /home/mahesh/client19/app/oraInventory/orainstRoot.sh

Successfully Setup Software with warning(s).
..... 100% Done.
The log of this install session can be found at:

```

Installation completed .

## 5. Let's configure TNS entries for remote database connection.

Create tnsnames.ora file under “/home/mahesh/client19/app/product/client\_home” location

```

[mahesh@node1 client]$ cd /home/mahesh/client19/app/product/client_home/network/admin/
[mahesh@node1 admin]$ ls -lrth
total 4.0K
-rw-r--r--. 1 mahesh mahesh 1.5K Feb 13 2018 shrept.lst
drwxr-xr-x. 2 mahesh mahesh 44 Apr 8 10:04 samples
[mahesh@node1 admin]$
[mahesh@node1 admin]$ vi tnsnames.ora

```

Content of tnsnames.ora file :

```

MYCONN=
(DESCRIPTION =
  (ADDRESS_LIST =
    (ADDRESS = (PROTOCOL = TCP)(HOST = 192.168.0.111)(PORT = 1521))
  )
  (CONNECT_DATA =
    (SERVICE_NAME = prodpdb)
  )
)

```

```
[mahesh@node1 admin]$ cat tnsnames.ora
MYCONN=
  (DESCRIPTION =
    (ADDRESS_LIST =
      (ADDRESS = (PROTOCOL = TCP) (HOST = 192.168.0.111) (PORT = 1521))
    )
    (CONNECT_DATA =
      (SERVICE_NAME = prodpdb)
    )
  )
```

## 6. Create oracle environment by editing bash\_profile.:

>

```
ORACLE_BASE=/oracle/app/oracle; export ORACLE_BASE
ORACLE_HOME=/home/mahesh/client19/app/product/client_home; export ORACLE_HOME
ORACLE_TERM=xterm; export ORACLE_TERM
JAVA_HOME=/usr/bin/java; export JAVA_HOME
TNS_ADMIN=$ORACLE_HOME/network/admin; export TNS_ADMIN
#PATH=.:{JAVA_HOME}/bin:${PATH}:$HOME/bin:$ORACLE_HOME/bin
#PATH=${PATH}:/usr/bin:/bin:/usr/local/bin
export PATH
LD_LIBRARY_PATH=$ORACLE_HOME/lib
#LD_LIBRARY_PATH=${LD_LIBRARY_PATH}:$ORACLE_HOME/oracm/lib
#LD_LIBRARY_PATH=${LD_LIBRARY_PATH}:/lib:/usr/lib:/usr/local/lib
export LD_LIBRARY_PATH
CLASSPATH=$ORACLE_HOME/JRE:$ORACLE_HOME/jlib:$ORACLE_HOME/rdbms/jlib:$ORACLE_HOM
export CLASSPATH
TEMP=/tmp ;export TMP
TMPDIR=$tmp ; export TMPDIR
umask 022
PATH=$ORACLE_HOME/bin:$PATH
#PATH=$PATH:$HOME/.local/bin:$HOME/bin
export PATH
```

---

```
[mahesh@node1 ~]$ cat .bash_profile
# .bash_profile

# Get the aliases and functions
if [ -f ~/.bashrc ]; then
    . ~/.bashrc
fi

# User specific environment and startup programs

ORACLE_BASE=/oracle/app/oracle; export ORACLE_BASE
ORACLE_HOME=/home/mahesh/client19/app/product/client_home; export ORACLE_HOME
ORACLE_TERM=xterm; export ORACLE_TERM
JAVA_HOME=/usr/bin/java; export JAVA_HOME
TNS_ADMIN=$ORACLE_HOME/network/admin; export TNS_ADMIN
#PATH=.:${JAVA_HOME}/bin:${PATH}:${HOME}/bin:$ORACLE_HOME/bin
#PATH=${PATH}:/usr/bin:/bin:/usr/local/bin
export PATH
LD_LIBRARY_PATH=$ORACLE_HOME/lib
#LD_LIBRARY_PATH=${LD_LIBRARY_PATH}:${ORACLE_HOME/oracm/lib}
#LD_LIBRARY_PATH=${LD_LIBRARY_PATH}:/lib:/usr/lib:/usr/local/lib
export LD_LIBRARY_PATH
CLASSPATH=$ORACLE_HOME/JRE:$ORACLE_HOME/jlib:$ORACLE_HOME/rdbms/jlib:$ORACLE_HOM
export CLASSPATH
TEMP=/tmp ;export TMP
TMPDIR=$tmp ; export TMPDIR
umask 022
PATH=$ORACLE_HOME/bin:$PATH

#PATH=$PATH:$HOME/.local/bin:$HOME/bin

export PATH
```

## 7. tnsping MYCONN

```
[mahesh@node1 ~]$ tnsping MYCONN

TNS Ping Utility for Linux: Version 19.0.0.0.0 - Production on 08-APR-2024 10:22:29

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 = 192.168.0.111) (PORT = 1521))) (CONNECT_DATA = (SERVICE_NAME = prodpdb)))
OK (10 msec)
```

Successfully connection established with target server DB.

## 8. Connection to DB :

sqlplus APPUSER/password@MYCONN

```
[mahesh@node1 ~]$ sqlplus APPUSER/password@MYCONN

SQL*Plus: Release 19.0.0.0.0 - Production on Mon Apr 8 10:23:32 2024
Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

Last Successful login time: Sat Apr 06 2024 14:26:51 +05:30

Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0

SQL> desc dept
Name                                         Null?    Type
-----
DEPTNO                                     NOT NULL NUMBER(2)
DNAME                                       VARCHAR2(14)
LOC                                         VARCHAR2(13)
```

***Successfully connected to target oracle database from Centos linux server.***