Use PuTTY to Access Oracle Database

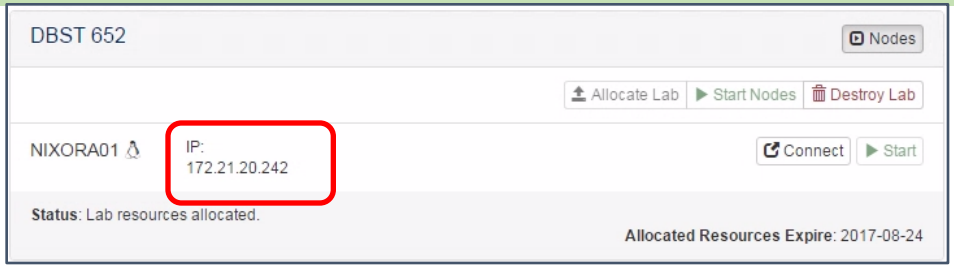
"PuTTY" is used to access an Oracle database using a command line user interface.

The Linux operating system's "vi editor" is used to create executable files containing database connection strings for users SYS and SYSTEM.

Launch and Configure PuTTY

1. Locate your IP address from the Lab Broker, DBST652, Nodes screen.

Note that "DBST 652" and TA's IP address is shown in this tutorial. Substitute your class as necessary. Ensure to use your IP address for this connection.



2. Launch **PuTTY** from your AWS DaaS desktop

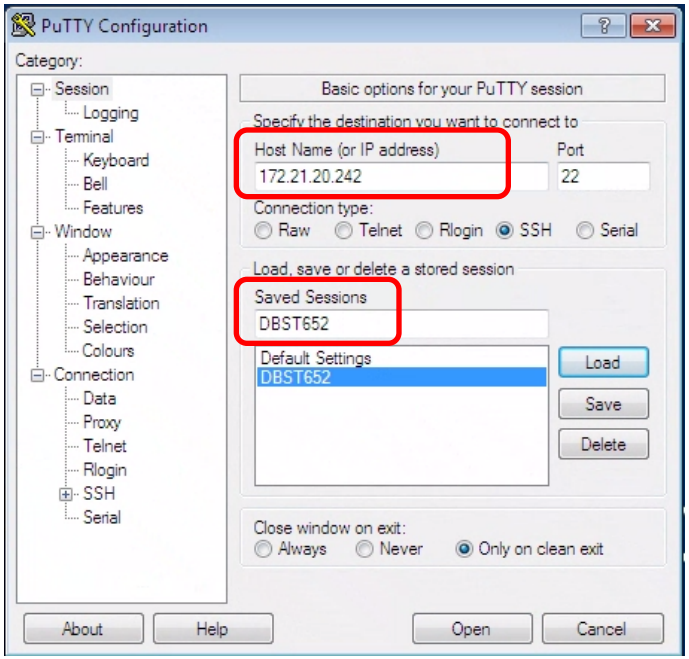
3. Enter your IP address in the **Host Name (or IP address)** box

Ensure that **SSH** is clicked

4. Enter a name to use for your session name

Click **Save** to save your session for reuse at any time

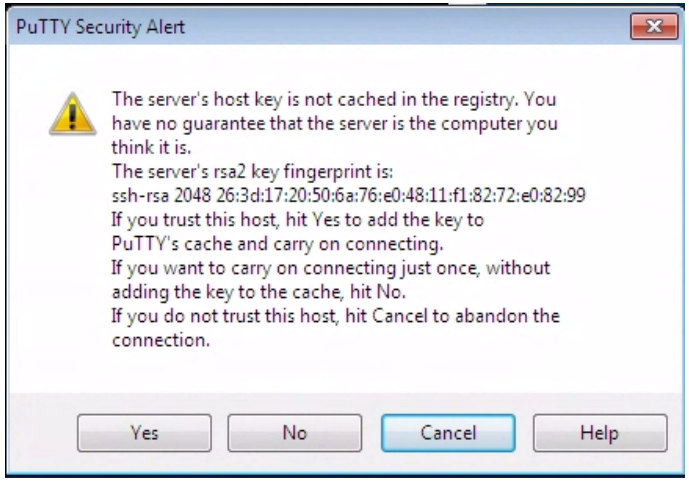
Click **Open** to launch the session



Launch and Configure PuTTY - Continued

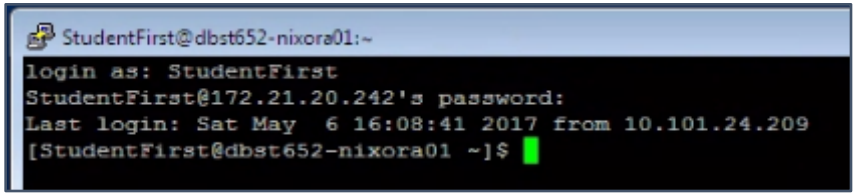
5. You may get a “PuTTY Security Alert”

Click **Yes**



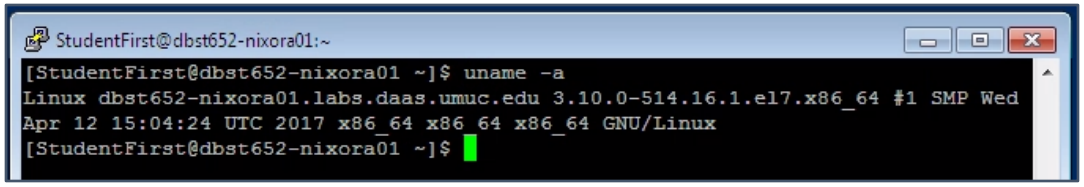
6. Log in the **PuTTY** session

Username: StudentFirst
Password: Cyb3rl@b



7. The Oracle server is on a “Linux” operating system

Type **uname –a** to see the operating system version details



Launch and Configure PuTTY - Continued

7. Linux commands

- pwd
  - "present working directory“
  - shows where are you at in the Linux directory structure
- ls -al
  - "list“
  - lists all files at your current location

```
[StudentFirst@dbst652-nixora01 ~]$ pwd
/home/StudentFirst
[StudentFirst@dbst652-nixora01 ~]$ ls -al
total 52
drwx------. 7 StudentFirst StudentFirst  4096 May  6 16:08 .
drwxr-xr-x. 6 root         root            65 Mar 13 23:37 ..
-rw-------. 1 StudentFirst StudentFirst     5 May  6 16:08 .bash_history
-rw-r--r--. 1 StudentFirst StudentFirst    18 Nov 20  2015 .bash_logout
-rw-r--r--. 1 StudentFirst StudentFirst   193 Mar 14 02:41 .bash_profile
-rw-r--r--. 1 StudentFirst StudentFirst   231 Nov 20  2015 .bashrc
drwxrwxr-x. 3 StudentFirst StudentFirst    17 Mar  6 14:46 .cache
drwxrwxr-x. 3 StudentFirst StudentFirst    17 Mar  6 14:46 .config
-rw-r--r--. 1 StudentFirst StudentFirst 25289 Mar  6 15:07 db.rsp
drwxrwxr-x. 3 StudentFirst StudentFirst    26 Apr 28 15:44 Desktop
drwxr-xr-x. 3 StudentFirst StudentFirst    17 Mar  6 14:54 .oracle
drwxr-xr-x. 2 StudentFirst StudentFirst     6 Mar  6 14:46 oraInventory
-rw-------. 1 StudentFirst StudentFirst   870 Mar  8 13:58 .viminfo
[StudentFirst@dbst652-nixora01 ~]$
```

8. Connect as user “SYS”

sqlplus SYS/0racl3Adm1n@dbst652 as SYSDBA

```
StudentFirst@dbst652-nixora01:~
[StudentFirst@dbst652-nixora01 ~]$ sqlplus SYS/0racl3Adm1n@dbst652 as SYSDBA

SQL*Plus: Release 12.2.0.1.0 Production on Sat May 6 16:29:32 2017

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Connected to:
Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production

SQL>
```

9. Type “quit” to exit the SQLPLUS session

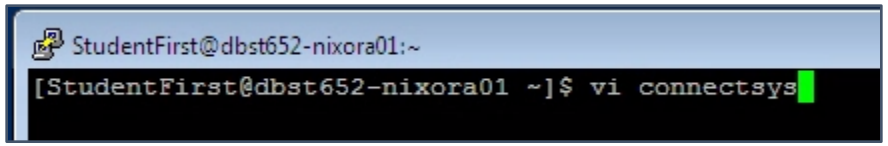
```
SQL> quit
Disconnected from Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64
bit Production
[StudentFirst@dbst652-nixora01 ~]$
```

Create an Executable File To Connect as User SYS

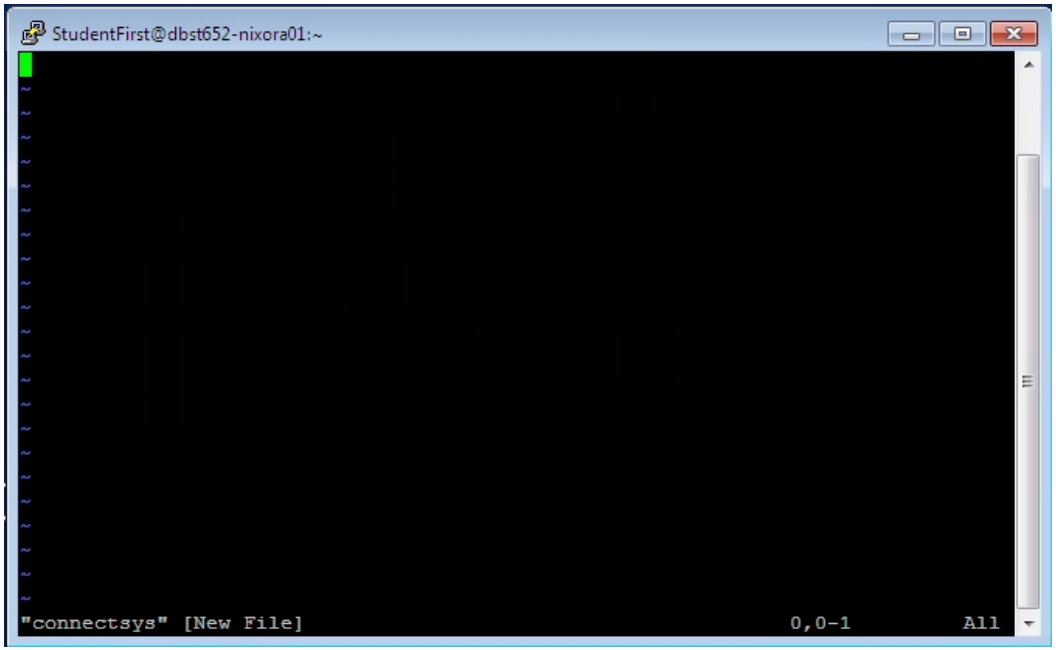
10. You can use a "vi editor" to create an executable file containing the SQL*Plus connection string for user **SYS**

vi connectsys <Enter>

Note you can use any filename you want. "connectsys" is used in this tutorial.



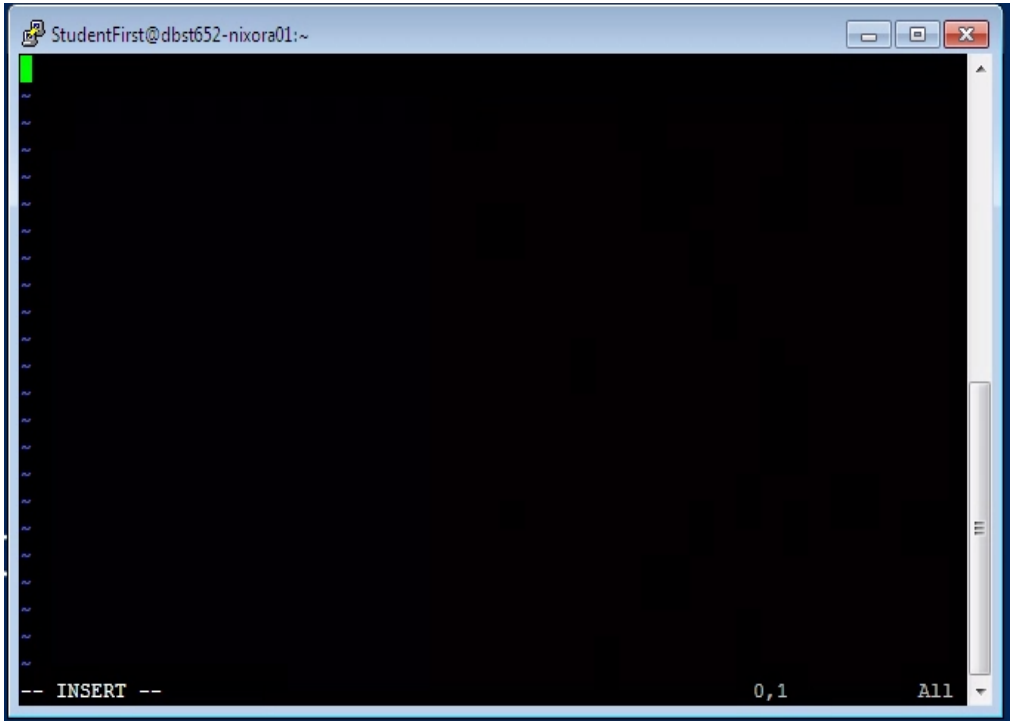
11. The "vi editor" screen will come up



Create an Executable File To Connect as User SYS - Continued

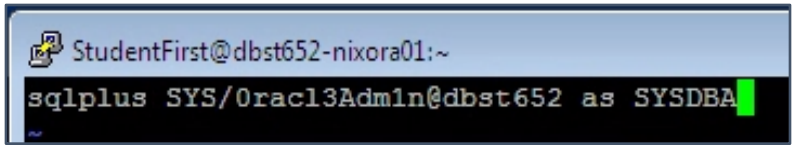
12. Hit the <i> key once to enter "insert" mode

You should see **-- INSERT --** at the bottom left of the screen



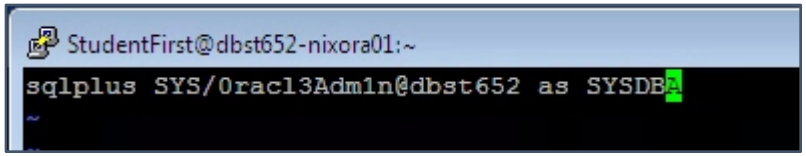
13. Type in:

sqlplus SYS/0racl3Adm1n@dbst652 as SYSDBA

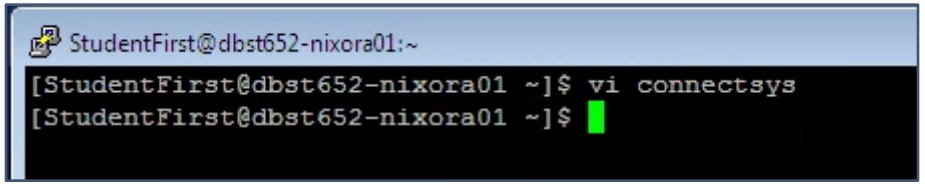


Create an Executable File To Connect as User SYS - Continued

14. Hit the <esc> key to escape insert mode

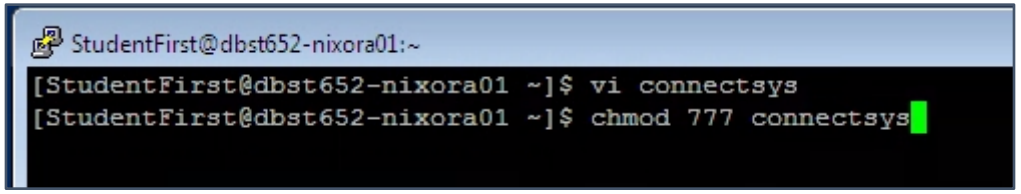


15. Hold the <shift> key down then <z><z> to save and exit the "vi editor" screen



16. Change permissions on "connectsys" so you can execute it

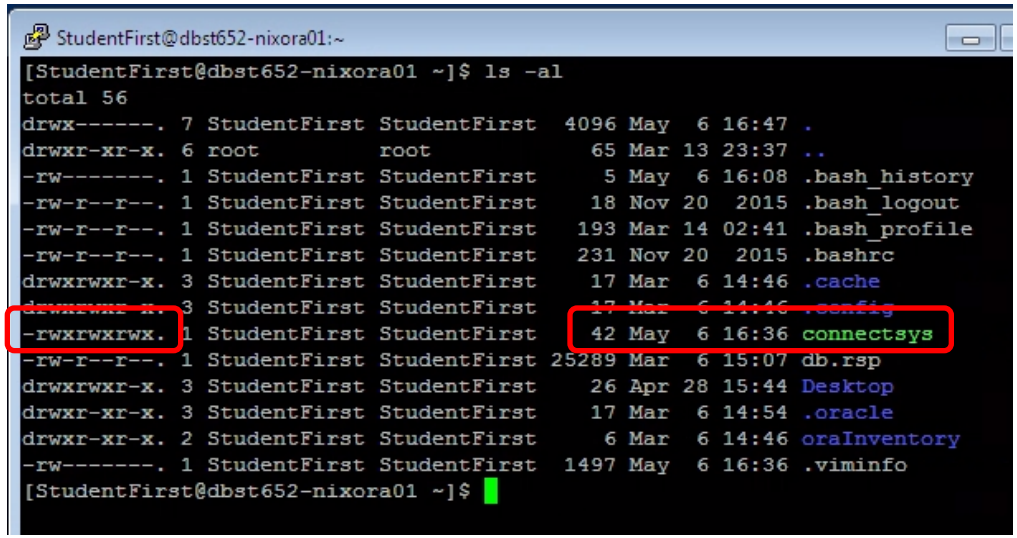
Type: chmod 777 connectsys



17. "ls –al" now shows the "connectsys" file with "-rwxrwxrwx-" permissions indicating that you can "read", "write" and "execute" the file as any type of user

To run the "connectsys" file to connect to SQL*Plus as user "SYS", type:

./connectsys <Enter>



Create an Executable File To Connect as User SYS - Continued

18. To run the "connectsys" file to connect to SQL*Plus as user "SYS", type:

./connectsys <Enter>

```
[StudentFirst@dbst652-nixora01 ~]$ ./connectme

SQL*Plus: Release 12.2.0.1.0 Production on Sat May 6 16:40:33 2017

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Connected to:
Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production

SQL>
```

19. Type "quit" to exit the SQL*Plus session

Type "exit" to exit the Linux/PuTTY session

```
Connected to:
Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production

SQL> quit
Disconnected from Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64
bit Production
[StudentFirst@dbst652-nixora01 ~]$ exit
```

20. You can repeat the process to create a connect for user "SYSTEM" using this connection string and a different file name (i.e. connectsystem):

sqlplus SYSTEM/0racl3Adm1n@dbst652