Setting up a distributed database

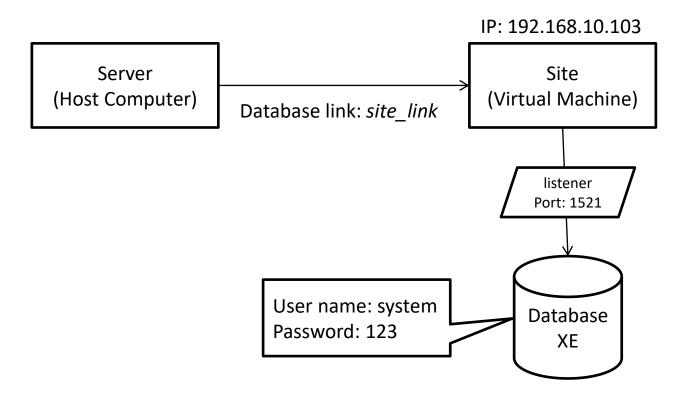
AUST | CSE 4126

What you need

- Oracle 10g
- Virtual machine.
 - You can use any VM software, i.e. <u>VMWare</u>.
- Tutorial video: https://youtu.be/OAnh6H7NfTY
 - The video tutorial is detailed and has some extra materials which is summarized in this presentation.
 - So go through the video first, then follow this presentation.

Summary

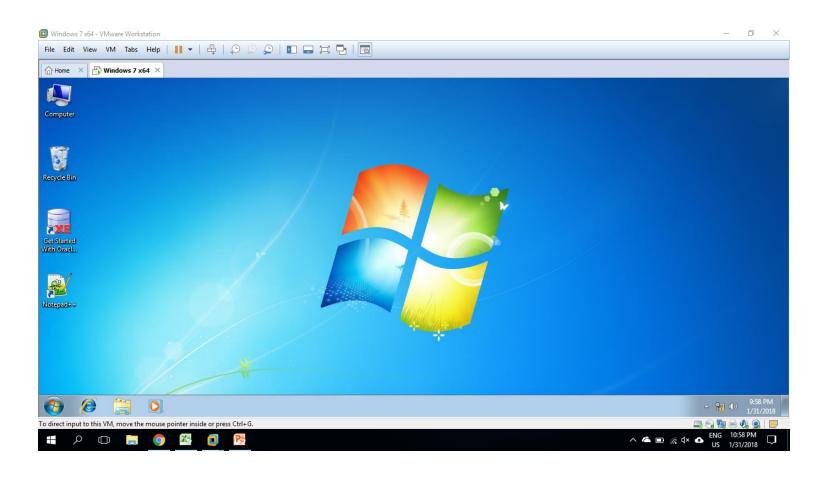
 We want to access a table at a site (virtual machine) from server (host computer) using a database link.



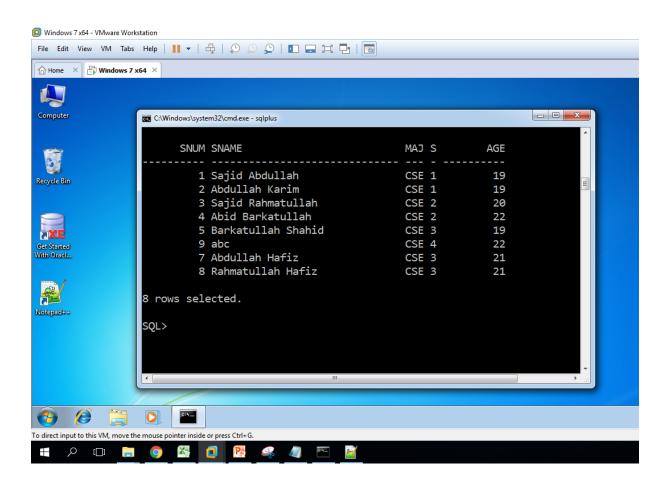
Workflow

	Server End (host)	Site End (VM)
1	Install Oracle 10g	Install Oracle 10g
2		Create tables and insert data
3		Turn off Firewall
4		Change IP to static IP
5	From RUN, Ping the site IP If reply, then good	
6		Go to C:\oraclexe\app\oracle\product\10.2.0\server\NET WORK\ADMIN\ And Change <i>something</i> in listener.ora
7		Go to cmd, Isnrctl stop/ start If successful message, you are good to go
8	Run the connection code	
9	Run SQL command to access from site	

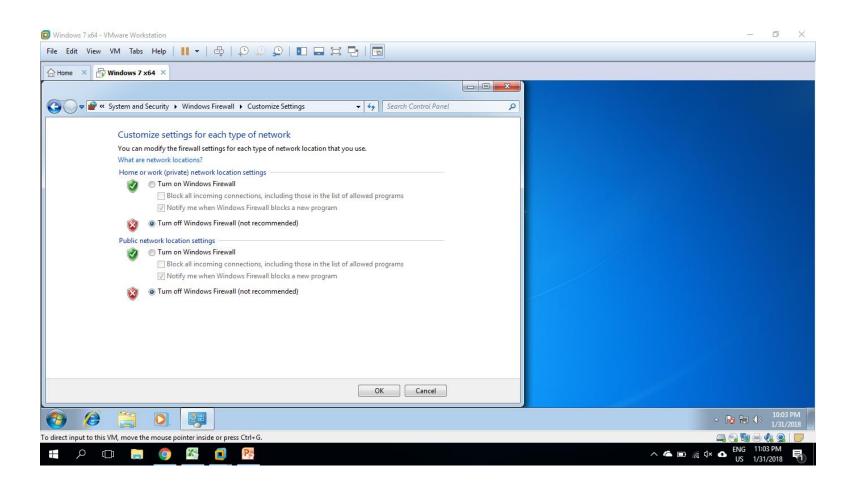
Install oracle 10g and notepad++.



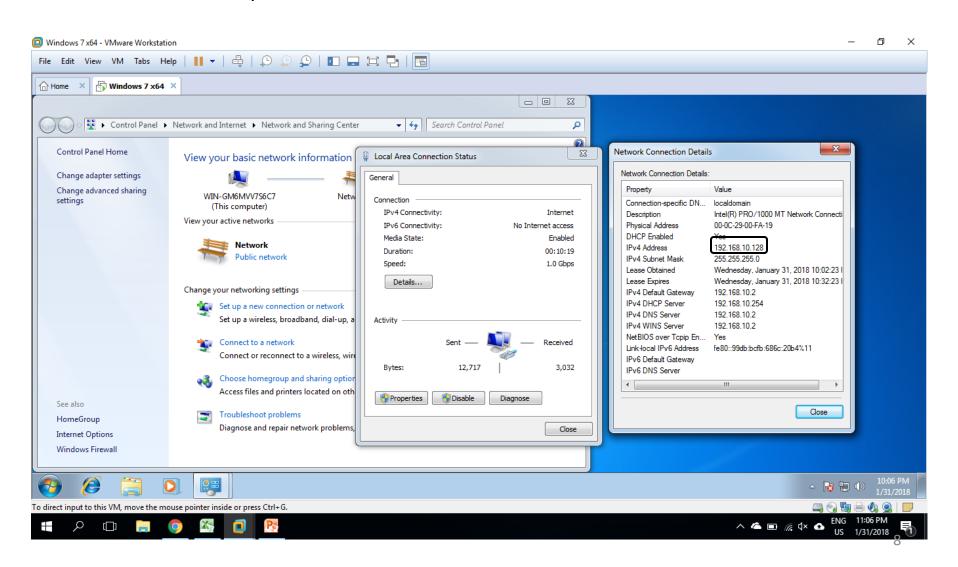
Create tables.



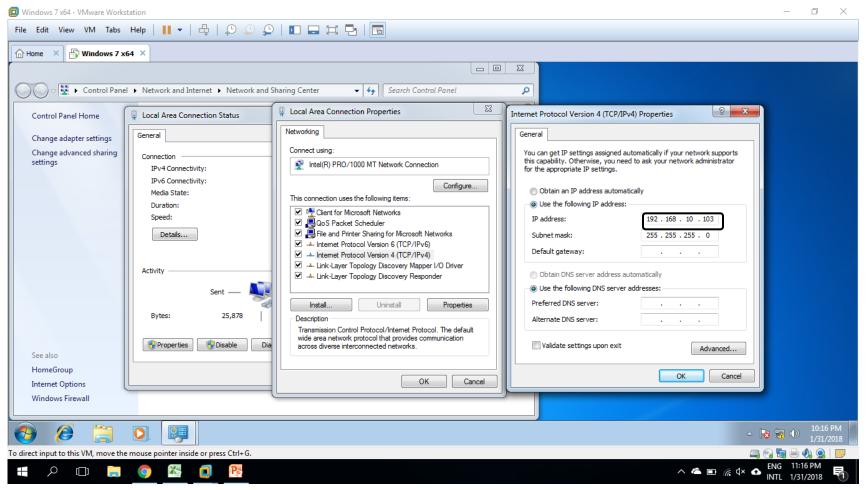
Turn off firewall



• Check you IPv4 Address. In this example, it is 192.168.10.128. We will need 192.168.10 part later.

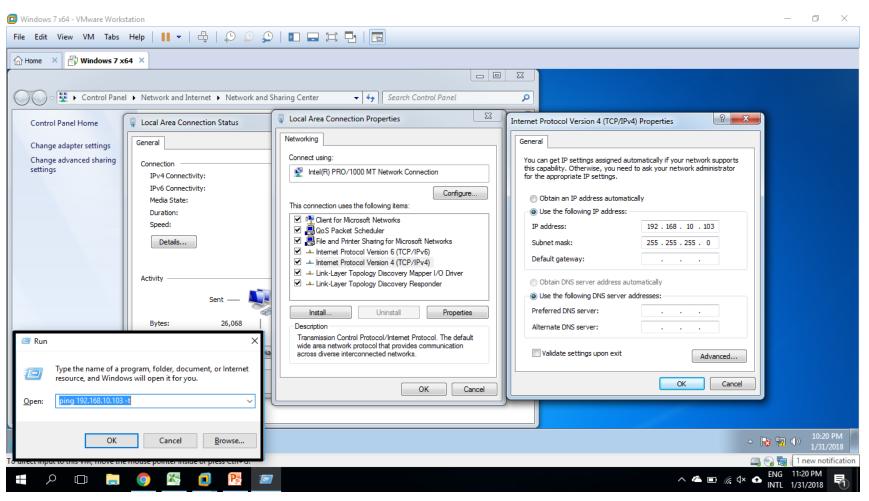


• Change automatic IP to static IP address. Assign an IP similar to IPv4 address. In this case, it is 192.168.10.103, here 192.168.10. part is chosen from previous slide.



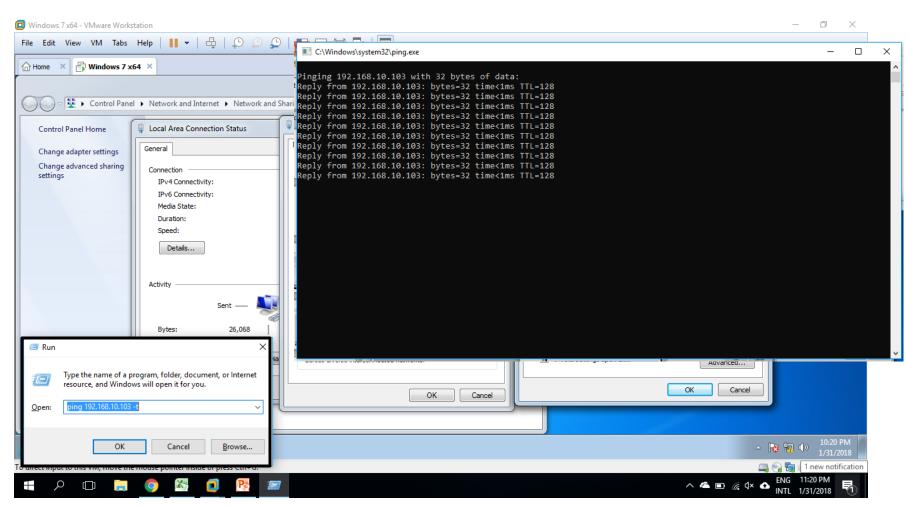
At host

• From the host computer, ping the site's IP address.

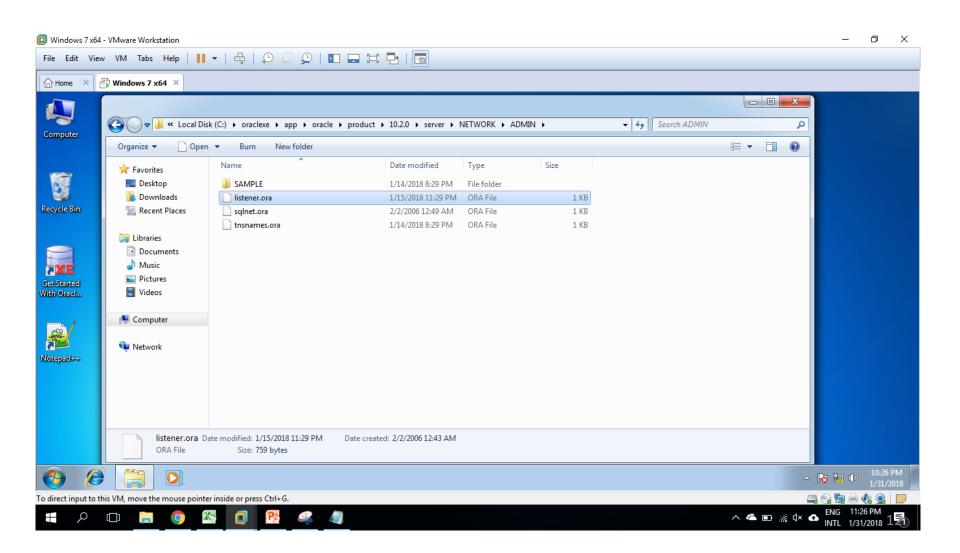


At host

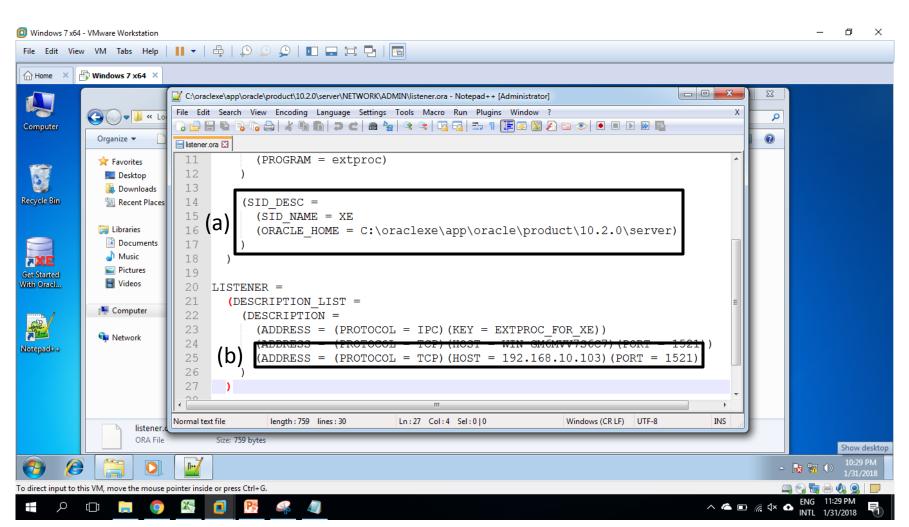
From the host computer, ping the site's IP address. If reply, then success!



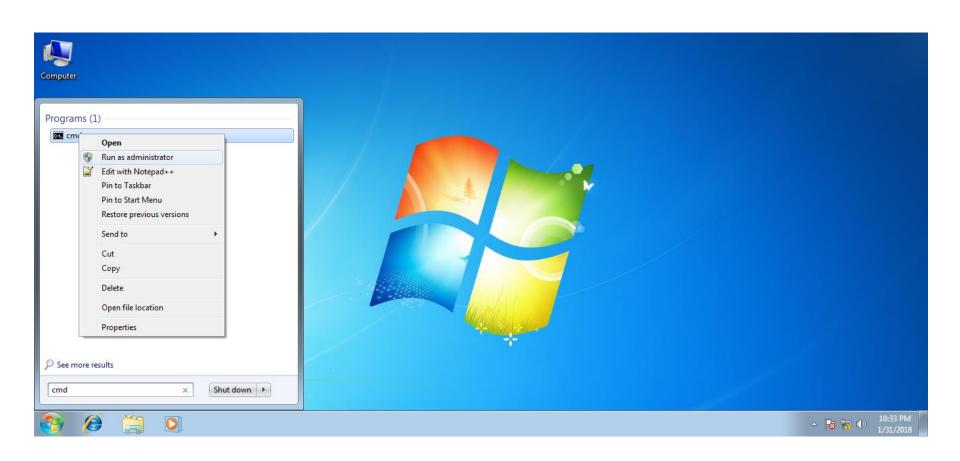
Go to : C:\oraclexe\app\oracle\product\10.2.0\server\NETWORK\ADMIN\



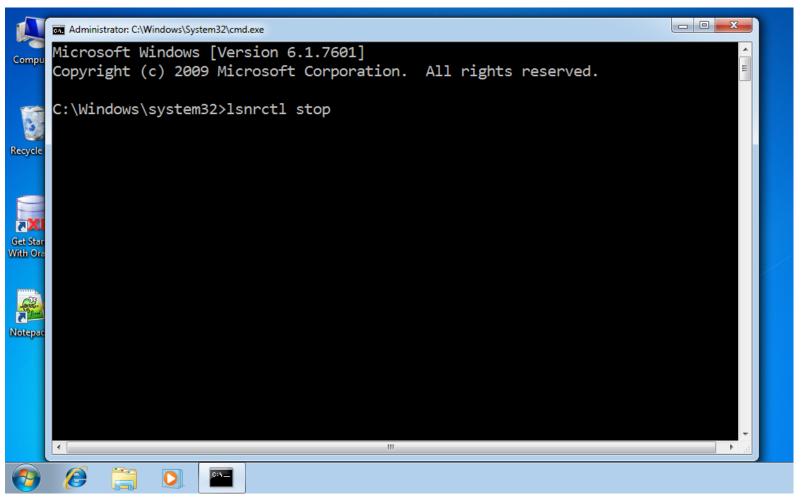
• Open listener.ora on *notepad++* and add following these two portions (indicated by *a* and *b*). Save the changes.



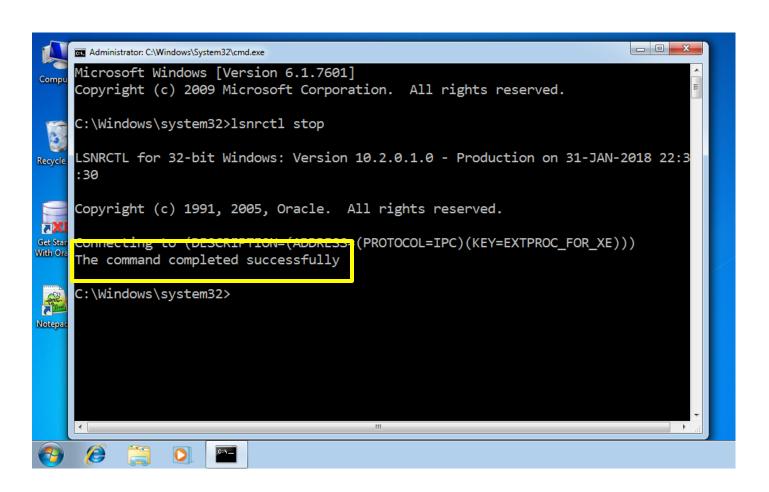
• Run the *cmd* in administrative mode.



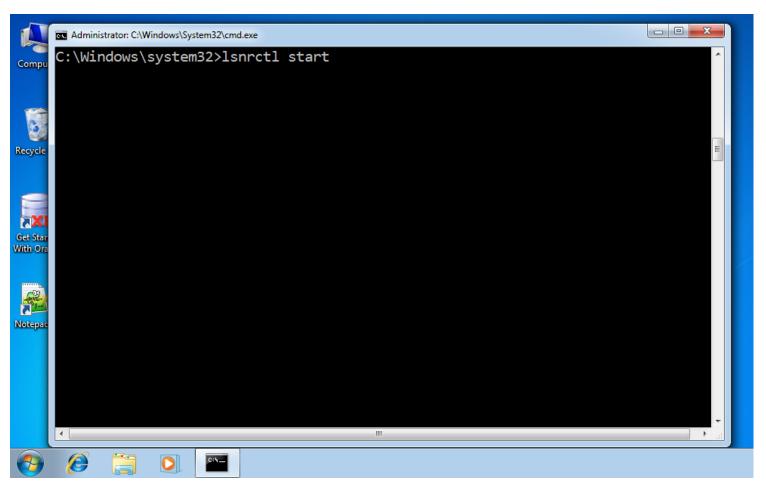
Give the command: lsnrctl stop



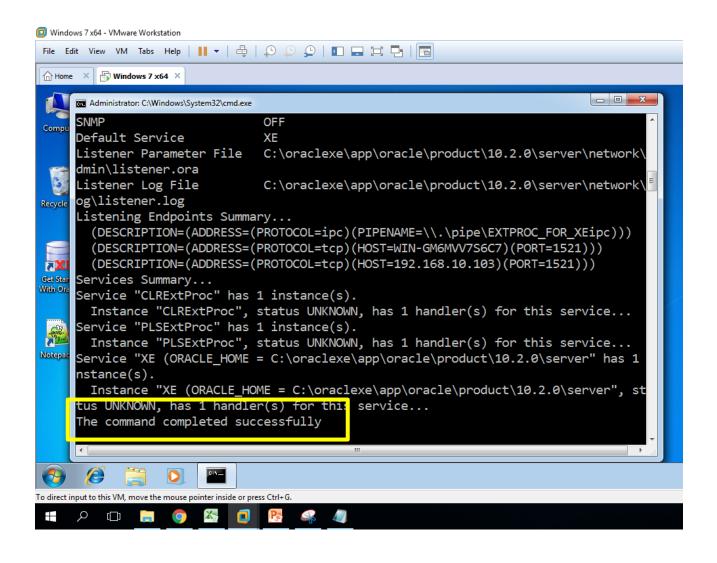
• Give the command: lsnrctl stop. You should get a success massage.



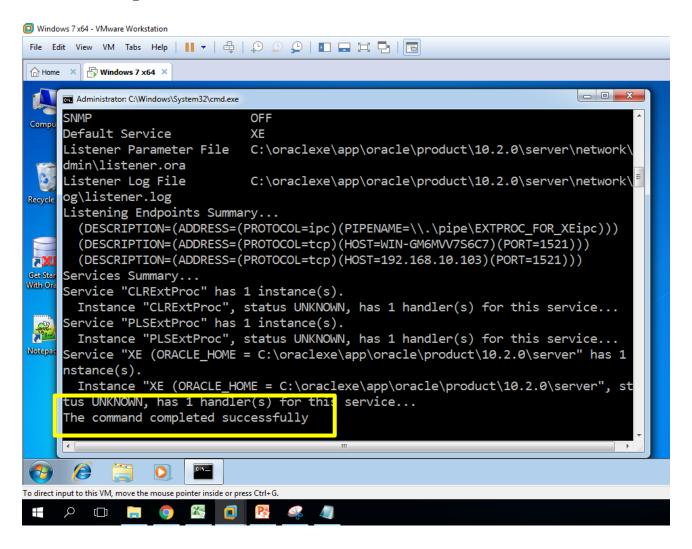
Now, Give the command: lsnrctl start



You should get a success massage again.



• But If error, modify port = 1522 at portion (b) in slide-13. Then again do the lsnrctl stop and lsnrctl start.



At host

• Create database link using the following command:

```
drop database link site_link;
create database link site link
       connect to system identified by "123"
       using '(DESCRIPTION =
        (ADDRESS LIST =
                (ADDRESS = (PROTOCOL = TCP)
                 (HOST = 192.168.10.103)
                 (PORT = 1521)
         (CONNECT_DATA = (SID = XE))
```

At host

Accessing data from site:

```
select * from student@site_link;
```