1. Oracle Database Administration

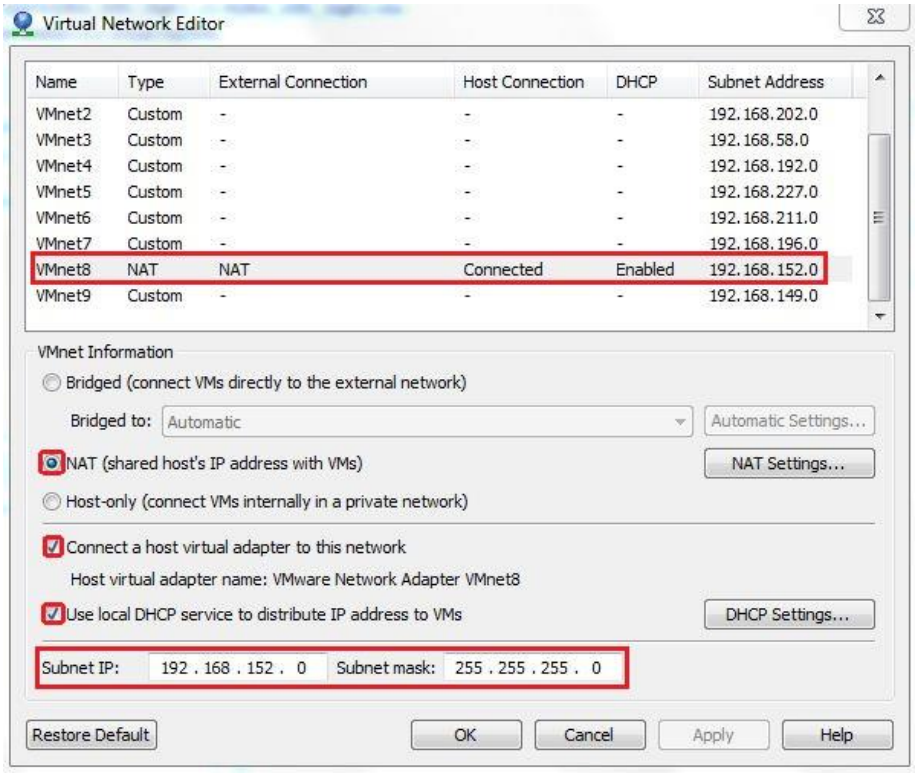
1.1. Starting with the Virtual Machine

1.1.1. The tool

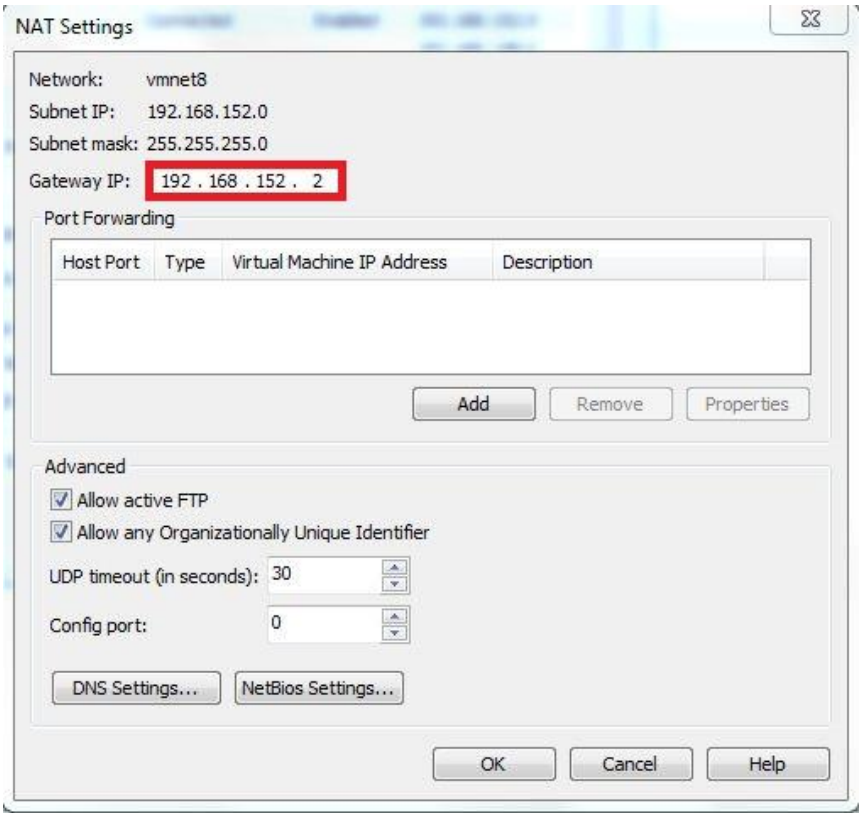
- Name : ORA_LIN_10gR1_v2.3
- OS version : Redhat Enterprise Edition Linux 3
- Oracle Version : Oracle Database 10gR1
- OS credentials : root / rootoracle
  oracle / oracle
- Oracle Credentials : sys/oracle as sysdba
  system / oracle

1.1.2. Configuration (mandatory):

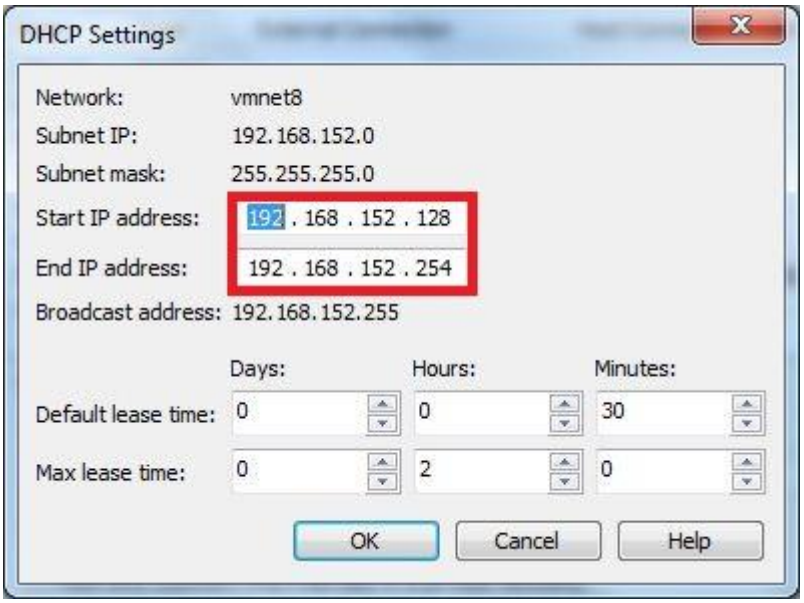
Download and extract ORA_LIN_10gR1_v2.3.rar.
BEFORE starting the VM, you have to configure Virtual Network.
Launch VMware Workstation and browse to the Virtual Network Editor in Edit menu.
Choose VMnet8 and change the Subnet IP to 192.168.152.0 and mask to 255.255.255.0.
Be sure that other options are configured like below and click Apply.



Verify in NAT Settings… that changes have been applied:



Then check changes in DHCP settings…:



Now browse to your local hosts file (WIN+r then %WINDIR%\system32\drivers\etc) and open it with administrative privilege to add the following line:

192.168.152.3 vmware.labo-oracle.com

Then add the .vmx file to VMware. Be sure to have at least 512Mo memory allowed (768 or 1024 are recommended).

You can now launch the VM, but when asked, choose **KEEP** or **I MOVED IT**.

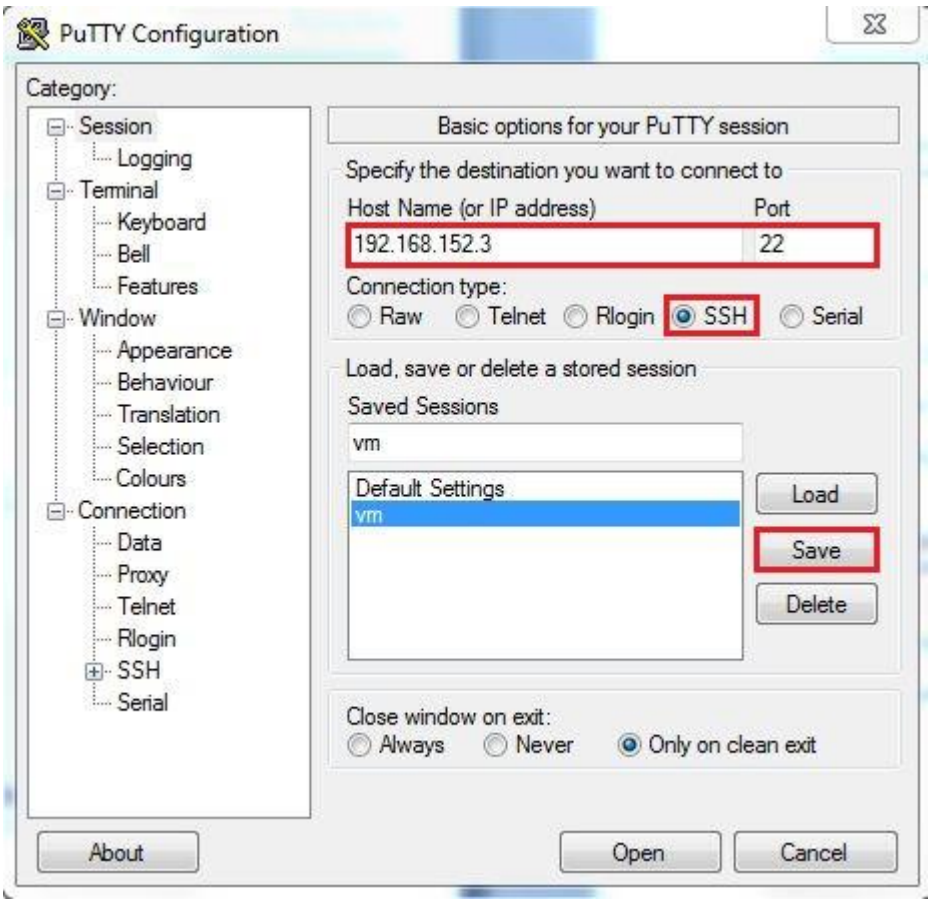
Be sure to respect above indications, else your VM won't work.

Then log in with oracle OS account (password: oracle) and execute the following command in this order:

1. lsnrctl start
2. sqlplus / as sysdba then startup and exit in sql prompt
3. emctl start dbconsole
4. isqlplusctl start

Your tool is now fully functional.

For more easiness (copy/paste from host OS,…) you can connect to the VM with putty configured as below:



2. Database Management

Background: Your system administrator asks that you stop all Oracle services in preparation for system maintenance. After maintenance is completed, restart all Oracle services.

1. Start the Oracle Listener using command-line tools.
2. Start Database Control.
3. Start *i*SQL*Plus process.
4. Connect to Database Control, with the following URL : http://vmware.labo-oracle.com:5500/em. When prompted, log in with the following information:
   username: sys AS SYSDBA
   password: oracle

5. Start the Oracle Database 10*g* instance.

Enter host credentials (username *oracle*, password *oracle*).
Enter database credentials (username *sys*, password *oracle*, connect as SYSDBA). Click OK.
When prompted to confirm startup/shutdown, click Yes.

6. View information in the instance's alert log. Click Alert Log Content from the Related Links region of Database Control. From this page, you can see the most recent entries in the instance's alert log. Included in the alert contents are any initialization parameters that are set to a nondefault value when the instance is started. Locate the nondefault initialisation parameters for your instance.

```
Starting up ORACLE RDBMS Version: 10.1.0.2.0.
processes = 250
shared_pool_size = 100663296
large_pool_size = 8388608
java_pool_size = 50331648
...
```

7. View initialization parameters. Navigate to the Administration properties page by clicking the Administration link near the top of the page.

Click All Initialization Parameters in the Instance region of the Administration properties page. Do not change any of the parameters (you will customize the instance by changing parameters in later lessons).

8. Stop the Oracle Listener using Database Control.
9. Shut down the database instance using Database Control.
10. Stop *i*SQL*Plus.
11. Stop Database Control.