



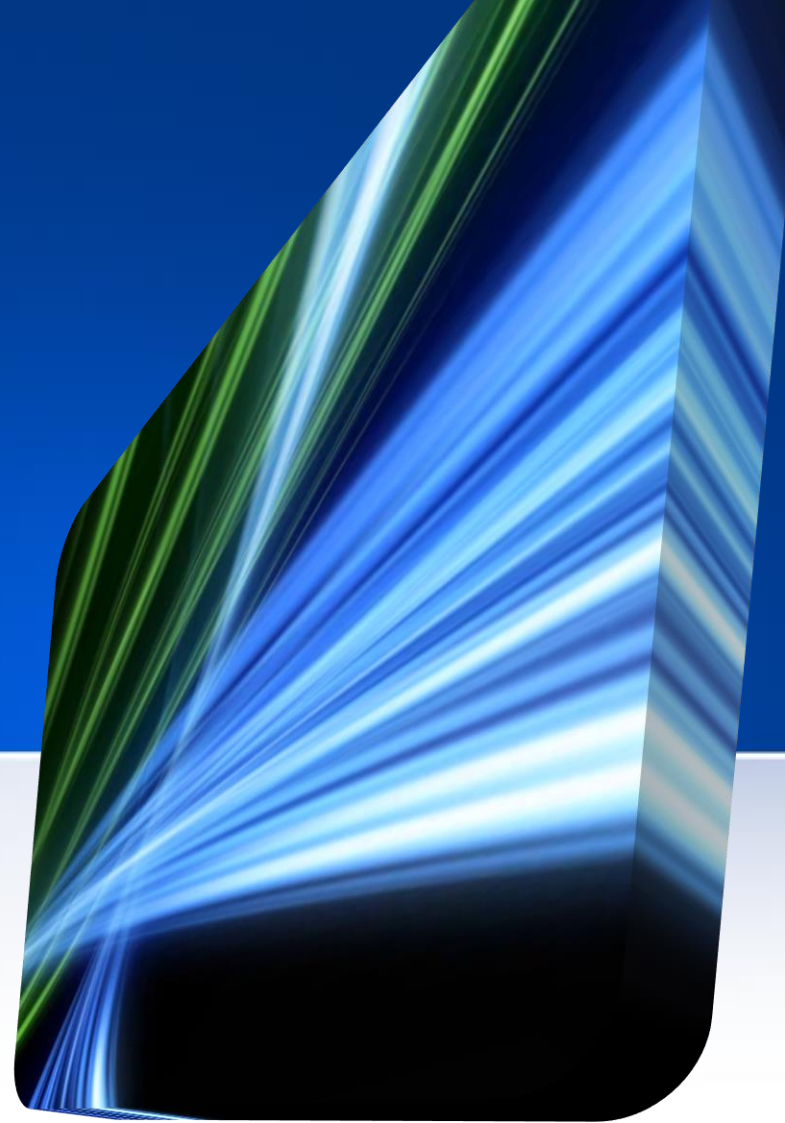
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Oracle Database 11g Administration and Development

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Install & Configure Linux and Oracle Database 11gR2

Billy Efik, OCP-10g/11g(DBA), OCP-PL/SQL, MCTS, MCP, A+

A. Create a new Virtual Machine

1. **Machine Name** : MyUnixServer1
2. **Hard Drive**: 30GB / **Memory (RAM)** : 1.5 GB (*1024MB = 1GB*)
3. **Network Adapter** : **Network Address Translation (NAT)**



B. Install Red Hat or Oracle Enterprise Linux 5

4. Select Appropriate Packages
5. Disable Firewall
6. Disable SELINUX
7. Set root password: *(our usual class password)*
8. Login as user: **root**



C. Configure Linux Network

9. Determine your IP Address (eg 192.168.xxx.xxx) : `ifconfig`
10. Change Network Properties : `vi /etc/hosts`
11. Setup a Fully qualified domain name for your Server
12. Ex. 192.168.???.??? `ptlinux2b.domain ptlinux2b`
13. Reboot Linux Server
14. **Minimize VMWARE** *(This will put the Linux in 'Texas Datacenter')*
15. Define `root` Connection to Server using SecureCRT and MobaXterm



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D. Set Linux Kernel Parameters & Packages

16. Use SECURECRT as root for this section

17. Add or amend the following lines in the `"/etc/sysctl.conf"` file

```
fs.suid_dumpable = 1
fs.aio-max-nr = 1048576
fs.file-max = 6815744
kernel.shmall = 2097152
kernel.shmmax = 536870912
kernel.shmmni = 4096
# semaphores: semmsl, semmns, semopm, semmni
kernel.sem = 250 32000 100 128
net.ipv4.ip_local_port_range = 9000 65500
net.core.rmem_default=4194304
net.core.rmem_max=4194304
net.core.wmem_default=262144
net.core.wmem_max=1048586
```



D. Set Linux Kernel Parameters & Packages (continued)

*******This is a sample document*******

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N. Configure and Connect from your Client/Workstation- Windows 7

67. **Install Oracle 11g Client** (*Skip this step if already installed*)
68. **Connect with `sqlplus sysman/<your password here>@<yourIP Address>:1521/orcl`** (*You cannot proceed until this task is successfully completed*)
69. **Open your Internet browser and connect to Oracle Enterprise Manager (OEM) with appropriate URL**
70. **Unlock and Set password for user:HR**
71. **Alter user hr identified by hrpt account unlock;**
72. **Run as Administrator : Oracle SQL Developer** and configure with appropriate java.exe file (*Skip this step if already installed*)
73. **Using Oracle SQL Developer, create a new connection for user: HR**
74. **Login as user: HR**
75. **Select * from employees;**
76. **Using Oracle SQL Developer, create a new connection for user: SYS**
77. **Login as user: SYS**
78. **Select * from v\$instance;**



Congratulations, you have successfully Installed and configured Oracle Enterprise Linux 5 and Oracle 11gR2!!!!

The same steps above can be used to Install Oracle 10g on Oracle Enterprise Linux 5 when you have some extra time.

In the next Lab, you will be creating a Tablespace, Role, User and assigning System and Object privileges.

You can send emails to oraclelabs@pishontechnologies.com , if you have any problems.

