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Install Oracle Database 12c On openSUSE 13.2

Dear Unixmen Fans, today we will show you the steps about how to install Oracle Database 12c in openSUSE. Also, this will work on SUSE Linux Enterprise Server too.

About my machine:

Vmware with 4GB RAM
Linux Opensuse 13.2 64bit
Hostname: opensuse-unixmen

Network:

```
eno167777 Link encap:Ethernet HWaddr 00:0C:29:65:7C:EB
  inet addr:192.168.64.130 Bcast:192.168.64.255 Mask:255.255.255.0
  inet6 addr: fe80::20c:29ff:fe65:7ceb/64 Scope:Link
  UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
  RX packets:59537 errors:0 dropped:0 overruns:0 frame:0
  TX packets:54818 errors:0 dropped:0 overruns:0 carrier:0
  collisions:0 txqueuelen:1000
  RX bytes:8441952 (8.0 Mb) TX bytes:6909698 (6.5 Mb)
  Interrupt:19 Base address:0x2000
```

1- First update your machine

```
zypper dup
```

Accept the license and continue.

2- Add you hostname and ip to /etc/hosts

3- Check if these package has been installed

```
zypper install libstdc++46-devel libstdc++33 libstdc++33-devel libelf-devel gcc-
c++ libaio-devel sysstat unixODBC unixODBC-devel xdpinfo
```

4- Add groups

```
groupadd -g 502 oinstall
groupadd -g 503 dba
groupadd -g 504 oper
groupadd -g 505 asmadmin
```

5- Create oracle user and add it to following groups

```
useradd -u 502 -g oinstall -G dba,asmadmin,oper -s /bin/bash -m oracle
```

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6- Set oracle user password

```
passwd oracle
```

6.1- Check Oracle user ID

```
id oracle
uid=502(oracle) gid=502(oinstall) groups=503(dba),504(oper),505(asmadmin),502(oinstall)
```

7- Create database installation directory and set the proper rights

```
mkdir -p /home/u01/app/oracle/product/12.1.0/dbhome_1
chown -R oracle:oinstall /home/u01/
chmod -R 775 /home/u01/
```

8- Configure the kernel parameters /etc/sysctl.conf

```
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 128linuxamd64_12102_database_1of2.zip
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
```

9- Configure limits.conf file (/etc/security/limits.conf)

```
oracle          soft    nproc    2047
oracle          hard    nproc    16384
oracle          soft    nofile   1024
oracle          hard    nofile   65536
oracle          soft    stack    10240
```

10- Load the new kernel configuration

```
/sbin/sysctl -p
```

11- Go to your folder where you have Oracle database software and extract the zip files

```
cd /Downloaded oracle_files/
```

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```
unzip linuxamd64_12102_database_1of2.zip
unzip linuxamd64_12102_database_2of2.zip
```

Then

```
chown -R oracle:oinstall database
mv database /home/oracle
```

11- sudo to oracle user

```
su - oracle
```

12- Add installation variables to your bashrc profile

```
vi .bashrc
```

and add this:

```
Oracle Settings
TMP=/tmp; export TMP
TMPDIR=$TMP; export TMPDIR
#ORACLE_HOSTNAME=
# export ORACLE_HOSTNAME
ORACLE_UNQNAME=DB12C; export ORACLE_UNQNAME
ORACLE_BASE=/home/u01/app/oracle; export ORACLE_BASE
ORACLE_HOME=$ORACLE_BASE/product/12.1.0/dbhome_1; export ORACLE_HOME
ORACLE_SID=DB12C
export ORACLE_SID
PATH=/usr/sbin:$PATH; export PATH
PATH=$ORACLE_HOME/bin:$PATH; export PATH
LD_LIBRARY_PATH=$ORACLE_HOME/lib:/lib:/usr/lib; export LD_LIBRARY_PATH
CLASSPATH=$ORACLE_HOME/jlib:$ORACLE_HOME/rdbms/jlib; export CLASSPATH
```

save and exit.

13- Integrate this changes with your profile

```
vi .bash_profile
```

and add:

```
if [ -f ~/.bashrc ]; then
source ~/.bashrc
fi
```

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14- Login from Shell/ or from putty or others ssh terminals/tools supporting X11

15- Ensure that DISPLAY has been exported

```
export DISPLAY=hostname:0.0  
xhost +IP
```

16- Lets start the installations

```
cd /home/oracle/database
```

17- Start the installation

```
oracle@opensuse-unixmen:~/database> ./runInstaller  
Starting Oracle Universal Installer...
```

```
Checking Temp space: must be greater than 500 MB.    Actual 6125 MB    Passed  
Checking swap space: must be greater than 150 MB.    Actual 2047 MB    Passed  
Checking monitor: must be configured to display at least 256 colors.    Actual 16777  
216    Passed
```

```
oracle@opensuse-unixmen:~/database> You can find the log of this install session at:  
/home/u01/app/oraInventory/logs/installActions2015-02-11_10-48-20PM.log
```

This is the output of the commands

```
opensuse-unixmen:~ # /home/u01/app/oraInventory/orainstRoot.sh
Changing permissions of /home/u01/app/oraInventory.
Adding read,write permissions for group.
Removing read,write,execute permissions for world.
```

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URL: <https://faq.schirra.net/phpMyFAQ/content/3/31/de/install-oracle-database-12c-on-opensuse-132.html>

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Changing groupname of /home/u01/app/oraInventory to oinstall.
The execution of the script is complete.

```
opensuse-unixmen:~ # /home/u01/app/oracle/product/12.1.0/dbhome_1/root.sh  
Performing root user operation.
```

The following environment variables are set as:

```
ORACLE_OWNER= oracle  
ORACLE_HOME= /home/u01/app/oracle/product/12.1.0/dbhome_1
```

Enter the full pathname of the local bin directory: [/usr/local/bin]:

```
Copying dbhome to /usr/local/bin ...  
Copying oraenv to /usr/local/bin ...  
Copying coraenv to /usr/local/bin ...
```

Creating /etc/oratab file...

Entries will be added to the /etc/oratab file as needed by
Database Configuration Assistant when a database is created
Finished running generic part of root script.

Now product-specific root actions will be performed.

Click OK to continue

Make password for SYS and SYSTEM users

Completed.

Lets make some checks:

Check the Listener

```
oracle@opensuse-unixmen:~> lsnrctl status
```

Check the Enterprise manager Console

<https://opensuse-unixmen:5500/em>

Done!

Eindeutige ID: #1030

Verfasser: n/a

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