

OracleDB

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Centos?? Oracle 10G ??

1. 1. 1. 1.

```
$> yum -y groupinstall "Desktop" "X Window System" "GNOME Desktop Environment"
"Desktop Platform Development" "Desktop Platform"
$> yum -y install glibc* libaio* compat-libstdc* compat-gcc* gcc* libXp* openmotif*
compat-db* xorg-x11-deprecated-libs compat-lib*
$> yum install kde-i18n-Korean -y
$> yum install fonts-korean -y
```

• Centos 6 64 1. 1. 1.

```
$> yum install -y xorg-x11-xauth.x86_64 xorg-x11-apps.x86_64
$> yum install -y libXp libXtst binutils compat-db compat-libstdc++-33 glibc
glibc-devel glibc-headers gcc gcc-c++ libstdc++ cpp make libaio ksh
elfutils-libelf sysstat libaio libaio-devel setarch libXp.i686 libXtst-
1.0.99.2-3.el6.i686 glibc-devel.i686 libgcc-4.4.4-13.el6.i686 compat-
libstdc++* compat-libf2c* compat-gcc* compat-libgcc* libXt.i686 libXtst.i686
$> yum install -y glibc-2.12-1.7.el6_0.5.i686
```

2. 1. 1. 1. 1.

```
$> echo "kernel.shmmax = 536870912
kernel.shmmni = 4096
kernel.sem = 250 32000 100 128
net.ipv4.ip_local_port_range = 1024 65000
net.core.rmem_default=262144
net.core.rmem_max=262144
net.core.wmem_default=262144
net.core.wmem_max=262144" >> /etc/sysctl.conf
$> sysctl -p
```

3. 1. 1. 1.

```
$> echo "#Oracle setting
*                soft    nproc    2047
*                hard    nproc    16384
```

```

*                soft    nofile  1024
*                hard    nofile  65536" >> /etc/security/limits.conf
$> echo "session    required    pam_limits.so" >> /etc/pam.d/login
$> groupadd oinstall
$> useradd -g oinstall oracle
$> passwd oracle
{{          }}
$> mkdir /usr/local/oracle
$> chown oracle.oinstall /usr/local/oracle

```

4. OS 2 2

```

$> mv /etc/redhat-release /etc/redhat-release_ori
$> echo "redhat-4" > /etc/redhat-release

```

5. 2 2

```

$> echo "
# Oracle Settings
TMP=/tmp; export TMP
TMPDIR=$TMP; export TMPDIR
ORACLE_BASE=/usr/local/oracle; export ORACLE_BASE
ORACLE_HOME=$ORACLE_BASE/product/10.2.0/db_1; export ORACLE_HOME
ORACLE_SID=orcl; export ORACLE_SID
ORACLE_TERM=xterm; export ORACLE_TERM
PATH=/usr/sbin:$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/JRE:$ORACLE_HOME/jlib:$ORACLE_HOME/rdbms/jlib; export
CLASSPATH

if [ $USER = "oracle" ]; then
    if [ $SHELL = "/bin/ksh" ]; then
        ulimit -p 16384
        ulimit -n 65536
    else
        ulimit -u 16384 -n 65536
    fi
fi" >> /etc/profile

```

6. 创建 Oracle 用户 并 创建

```
echo "  
source /etc/profile  
su - oracle -c \"\${ORACLE_HOME}/bin/lsnrctl start\"  
su - oracle -c \"\${ORACLE_HOME}/bin/dbstart\"  
" >> /etc/rc.d/rc.local
```

Centos?? oracle 11g ??

1. 安装 环境

```
$> yum -y groupinstall "Desktop" "X Window System" "GNOME Desktop Environment"
"Desktop Platform Development" "Desktop Platform"
$> yum -y install glibc* libaio* compat-libstdc* compat-gcc* gcc* libXp* openmotif*
compat-db* xorg-x11-deprecated-libs compat-lib*
$> yum install kde-i18n-Korean -y
$> yum install fonts-korean -y
$> yum install -y binutils-2.* compat-libstdc++-33* elfutils* gcc-4.* gcc-c++-4.*
glibc-2.* glibc* ksh* libaio* libgomp* libgcc* libstdc++* unixODBC-2* unixODBC-devel*
numactl-devel* sysstat* pdksh*
```

• Centos6 64位 安装 环境

```
$> yum install -y xorg-x11-xauth.x86_64 xorg-x11-apps.x86_64
$> yum install -y libXp libXtst binutils compat-db compat-libstdc++-33 glibc
glibc-devel glibc-headers gcc gcc-c++ libstdc++ cpp make libaio ksh
elfutils-libelf sysstat libaio libaio-devel setarch libXp.i686 libXtst-
1.0.99.2-3.el6.i686 glibc-devel.i686 libgcc-4.4.4-13.el6.i686 compat-
libstdc++* compat-libf2c* compat-gcc* compat-libgcc* libXt.i686 libXtst.i686
$> yum install -y glibc-2.12-1.7.el6_0.5.i686
```

2. 配置 环境

```
$> echo "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" >> /etc/sysctl.conf
$> sysctl -p
```

3. 用户 用户组

```
$> echo "oracle                soft    nproc    2047
oracle                hard    nproc    16384
oracle                soft    nofile   4096
oracle                hard    nofile   65536
oracle                soft    stack    10240" >> /etc/security/limits.conf
$> groupadd oinstall
$> useradd -g oinstall oracle
$> passwd oracle
{{ 密码 至少 2位 }}
$> mkdir /usr/local/oracle
$> chown oracle.oinstall /usr/local/oracle
```

4. OS 版本

```
mv /etc/redhat-release /etc/redhat-release_ori
echo "redhat-4" > /etc/redhat-release
```

5. 环境变量 设置

```
$> echo "
# Oracle Settings
TMP=/tmp; export TMP
TMPDIR=\$TMP; export TMPDIR
ORACLE_HOSTNAME=orcl.localdomain; export ORACLE_HOSTNAME
ORACLE_UNQNAME=DB11G; export ORACLE_UNQNAME
ORACLE_BASE=/usr/local/oracle; export ORACLE_BASE
ORACLE_HOME=\$ORACLE_BASE/product/11.2.0/db_1; export ORACLE_HOME
ORACLE_SID=orcl; 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" >>
/etc/profile
```

6. 数据库 安装 目录 设置

```
$> echo "  
source /etc/profile  
su - oracle -c \"\$ORACLE_HOME/bin/lsnrctl start\"  
su - oracle -c \"\$ORACLE_HOME/bin/dbstart\"  
" >> /etc/rc.d/rc.local
```

Centos?? oracle 12c ????

1. 安装 依赖

```
$> yum install binutils compat-libcap1 compat-libstdc++-33 compat-libstdc++-33.i686  
gcc gcc-c++ glibc glibc.i686 glibc-devel glibc-devel.i686 ksh libgcc -y  
$> yum install libgcc.i686 libstdc++ libstdc++.i686 libstdc++-devel libstdc++-  
devel.i686 libaio libaio.i686 libaio-devel libaio-devel.i686 libXext libXext.i686 -y  
$> yum install libXtst libXtst.i686 libX11 libX11.i686 libXau libXau.i686 libxcb  
libxcb.i686 libXi libXi.i686 unixODBC unixODBC-devel -y
```

2. 配置 内核

```
$> echo "fs.file-max = 6815744  
kernel.sem = 250 32000 100 128  
kernel.shmmni = 4096  
kernel.shmall = 1073741824  
kernel.shmmax = 4398046511104  
net.core.rmem_default = 262144  
net.core.rmem_max = 4194304  
net.core.wmem_default = 262144  
net.core.wmem_max = 1048576  
fs.aio-max-nr = 1048576  
net.ipv4.ip_local_port_range = 9000 65500" >> /etc/sysctl.conf  
$> sysctl -p
```

3. 配置 用户

```
$> echo "oracle    soft    nofile    1024  
oracle    hard    nofile    65536  
oracle    soft    nproc     16384  
oracle    hard    nproc     16384  
oracle    soft    stack     10240  
oracle    hard    stack     32768" >> /etc/security/limits.conf  
  
$> groupadd -g 54321 oinstall  
$> groupadd -g 54322 dba  
$> groupadd -g 54323 oper
```



```

$> useradd -u 54321 -g oinstall -G dba,oper oracle
$> passwd oracle
{{  2  }}
$> mkdir -p /usr/local/oracle/product/12.1.0/db_1
$> mkdir /usr/local/oraInventory
$> chown -R oracle:oinstall /usr/local/oracle
$> chown oracle.oinstall /usr/local/oraInventory
$> chmod -R 775 /usr/local/oracle

```

4. 创建用户并设置环境变量

```

$> echo "
# Oracle Settings
export TMP=/tmp
export TMPDIR=\$TMP
export ORACLE_HOSTNAME=orcl.localdomain
export ORACLE_UNQNAME=orcl
export ORACLE_BASE=/usr/local/oracle
export ORACLE_HOME=\$ORACLE_BASE/product/12.1.0/db_1
export ORACLE_SID=orcl
export PATH=/usr/sbin:\$PATH
export PATH=\$ORACLE_HOME/bin:\$PATH
export LD_LIBRARY_PATH=\$ORACLE_HOME/lib:/lib:/usr/lib
export CLASSPATH=\$ORACLE_HOME/jlib:\$ORACLE_HOME/rdbms/jlib" >>
/home/oracle/.bash_profile

```

5. 创建启动脚本并设置环境变量

```

$> echo "
source /etc/profile
su - oracle -c \"\$ORACLE_HOME/bin/lsnrctl start\"
su - oracle -c \"\$ORACLE_HOME/bin/dbstart\"
" >> /etc/rc.d/rc.local

```

oracle 10g ??? failed to auto-
start... vikrkuma_new/oracle ???
????

```

[1] [2] "Failed to auto-start Oracle Net Listene using /ade/vikrkuma_new/oracle/bin/tnslsnr"
[3] [4] [5] [6] ([7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40] [41] [42] [43] [44] [45] [46] [47] [48] [49] [50] [51] [52] [53] [54] [55] [56] [57] [58] [59] [60] [61] [62] [63] [64] [65] [66] [67] [68] [69] [70] [71] [72] [73] [74] [75] [76] [77] [78] [79] [80] [81] [82] [83] [84] [85] [86] [87] [88] [89] [90] [91] [92] [93] [94] [95] [96] [97] [98] [99] [100] [101] [102] [103] [104] [105] [106] [107] [108] [109] [110] [111] [112] [113] [114] [115] [116] [117] [118] [119] [120] [121] [122] [123] [124] [125] [126] [127] [128] [129] [130] [131] [132] [133] [134] [135] [136] [137] [138] [139] [140] [141] [142] [143] [144] [145] [146] [147] [148] [149] [150] [151] [152] [153] [154] [155] [156] [157] [158] [159] [160] [161] [162] [163] [164] [165] [166] [167] [168] [169] [170] [171] [172] [173] [174] [175] [176] [177] [178] [179] [180] [181] [182] [183] [184] [185] [186] [187] [188] [189] [190] [191] [192] [193] [194] [195] [196] [197] [198] [199] [200] [201] [202] [203] [204] [205] [206] [207] [208] [209] [210] [211] [212] [213] [214] [215] [216] [217] [218] [219] [220] [221] [222] [223] [224] [225] [226] [227] [228] [229] [230] [231] [232] [233] [234] [235] [236] [237] [238] [239] [240] [241] [242] [243] [244] [245] [246] [247] [248] [249] [250] [251] [252] [253] [254] [255] [256] [257] [258] [259] [260] [261] [262] [263] [264] [265] [266] [267] [268] [269] [270] [271] [272] [273] [274] [275] [276] [277] [278] [279] [280] [281] [282] [283] [284] [285] [286] [287] [288] [289] [290] [291] [292] [293] [294] [295] [296] [297] [298] [299] [300] [301] [302] [303] [304] [305] [306] [307] [308] [309] [310] [311] [312] [313] [314] [315] [316] [317] [318] [319] [320] [321] [322] [323] [324] [325] [326] [327] [328] [329] [330] [331] [332] [333] [334] [335] [336] [337] [338] [339] [340] [341] [342] [343] [344] [345] [346] [347] [348] [349] [350] [351] [352] [353] [354] [355] [356] [357] [358] [359] [360] [361] [362] [363] [364] [365] [366] [367] [368] [369] [370] [371] [372] [373] [374] [375] [376] [377] [378] [379] [380] [381] [382] [383] [384] [385] [386] [387] [388] [389] [390] [391] [392] [393] [394] [395] [396] [397] [398] [399] [400] [401] [402] [403] [404] [405] [406] [407] [408] [409] [410] [411] [412] [413] [414] [415] [416] [417] [418] [419] [420] [421] [422] [423] [424] [425] [426] [427] [428] [429] [430] [431] [432] [433] [434] [435] [436] [437] [438] [439] [440] [441] [442] [443] [444] [445] [446] [447] [448] [449] [450] [451] [452] [453] [454] [455] [456] [457] [458] [459] [460] [461] [462] [463] [464] [465] [466] [467] [468] [469] [470] [471] [472] [473] [474] [475] [476] [477] [478] [479] [480] [481] [482] [483] [484] [485] [486] [487] [488] [489] [490] [491] [492] [493] [494] [495] [496] [497] [498] [499] [500] [501] [502] [503] [504] [505] [506] [507] [508] [509] [510] [511] [512] [513] [514] [515] [516] [517] [518] [519] [520] [521] [522] [523] [524] [525] [526] [527] [528] [529] [530] [531] [532] [533] [534] [535] [536] [537] [538] [539] [540] [541] [542] [543] [544] [545] [546] [547] [548] [549] [550] [551] [552] [553] [554] [555] [556] [557] [558] [559] [560] [561] [562] [563] [564] [565] [566] [567] [568] [569] [570] [571] [572] [573] [574] [575] [576] [577] [578] [579] [580] [581] [582] [583] [584] [585] [586] [587] [588] [589] [590] [591] [592] [593] [594] [595] [596] [597] [598] [599] [600] [601] [602] [603] [604] [605] [606] [607] [608] [609] [610] [611] [612] [613] [614] [615] [616] [617] [618] [619] [620] [621] [622] [623] [624] [625] [626] [627] [628] [629] [630] [631] [632] [633] [634] [635] [636] [637] [638] [639] [640] [641] [642] [643] [644] [645] [646] [647] [648] [649] [650] [651] [652] [653] [654] [655] [656] [657] [658] [659] [660] [661] [662] [663] [664] [665] [666] [667] [668] [669] [670] [671] [672] [673] [674] [675] [676] [677] [678] [679] [680] [681] [682] [683] [684] [685] [686] [687] [688] [689] [690] [691] [692] [693] [694] [695] [696] [697] [698] [699] [700] [701] [702] [703] [704] [705] [706] [707] [708] [709] [710] [711] [712] [713] [714] [715] [716] [717] [718] [719] [720] [721] [722] [723] [724] [725] [726] [727] [728] [729] [730] [731] [732] [733] [734] [735] [736] [737] [738] [739] [740] [741] [742] [743] [744] [745] [746] [747] [748] [749] [750] [751] [752] [753] [754] [755] [756] [757] [758] [759] [760] [761] [762] [763] [764] [765] [766] [767] [768] [769] [770] [771] [772] [773] [774] [775] [776] [777] [778] [779] [780] [781] [782] [783] [784] [785] [786] [787] [788] [789] [790] [791] [792] [793] [794] [795] [796] [797] [798] [799] [800] [801] [802] [803] [804] [805] [806] [807] [808] [809] [810] [811] [812] [813] [814] [815] [816] [817] [818] [819] [820] [821] [822] [823] [824] [825] [826] [827] [828] [829] [830] [831] [832] [833] [834] [835
```

image-1654535510418.png

--	--	--	--

```
$> vi $ORACLE_HOME/bin/dbstart
...
ORACLE_HOME_LISTENER=/ade/vikrkuma_new/oracle
ORACLE_HOME_LISTENER=$ORACLE_HOME  [] []
...
```

reference

- <http://www.oracle-base.com/articles/linux/automating-database-startup-and-shutdown-on-linux.php>

oracle 10g ????? ?? ??

1. 查看 数据库 参数

```
SQL> archive log list
\\Database log mode          No Archive Mode
Automatic archival          Disabled
Archive destination         USE_DB_RECOVERY_FILE_DEST
Oldest online log sequence   1
Current log sequence         2
\\SQL> show parameter spfile
```

NAME	TYPE	VALUE
spfile	string	/u01/app/oracle/product/10.2.0/db_1/dbs/spfileTSH1.ora

2. 修改 数据库 参数

```
SQL> ALTER SYSTEM SET log_archive_dest_1='location=/u01/app/oracle/oradata/data reope
n=60' scope=spfile;
System altered.
\\SQL> ALTER SYSTEM SET log_archive_format='%t_%s_%r.arc' scope=spfile;
System altered.
```

3. Oracle 关机

```
SQL> shutdown immediate
Database closed.
Database dismounted.
ORACLE instance shut down.
```

4. Oracle 启动

```
SQL> startup mount
.
ORACLE instance started.
\\Total System Global Area  608174080 bytes
Fixed Size                   1220844 bytes
Variable Size                171970324 bytes
```

```
Database Buffers          432013312 bytes
Redo Buffers              2969600 bytes
Database mounted.
```

5. log 切换

```
SQL> alter database archivelog;
Database altered.
```

6. 查看归档日志配置

```
SQL> archive log list
Database log mode          Archive Mode
Automatic archival        Enabled
Archive destination        /u01/app/oracle/oradata/data
Oldest online log sequence 1
Next log sequence to archive 2
Current log sequence       2
```

7. DB Open

```
SQL> alter database open;
Database altered.
```

8. DB 关闭 & Cold Backup

```
SQL> shutdown immediate
Database closed.
Database dismounted.
ORACLE instance shut down.
```

9. log 切换

```
SQL> ALTER SYSTEM SWITCH LOGFILE;
\\System altered.
```

oracle 10g dbstart?? ?????

DB[] [] [] [] []

```
[oracle@localhost ~]$ /usr/local/oracle/product/10.2.0/db_1/bin/dbstart
```

```
Failed to auto-start Oracle Net Listene using /ade/vikrkuma_new/oracle/bin/tnslsnr
```

```
Processing Database instance "orcl": log file  
/usr/local/oracle/product/10.2.0/db_1/startup.log
```

[] [] [] []

```
$> vi /usr/local/oracle/product/10.2.0/db_1/bin/dbstart
```

```
#ORACLE_HOME_LISTNER=/ade/vikrkuma_new/oracle
```

```
ORACLE_HOME_LISTNER=$ORACLE_HOME
```

Oracle ??? ?????

1. 테이블을 생성하여 emp2 테이블을 생성한다

```
SQL> create tablespace testdb  
datafile '/home/oracle/oradata/TSH1/testdb.dbf' size 500m;
```

2. test_user 사용자 생성 및 testdb1 테이블을 생성한다

```
SQL> CREATE USER test_user IDENTIFIED BY userdata1 DEFAULT TABLESPACE testdb  
TEMPORARY TABLESPACE TEMP;
```

3. 권한 부여

```
SQL> GRANT connect, resource, create session,create table TO test_user;
```

4. testdb 테이블을 생성한다

```
SQL> create table emp2( empno number, ename varchar2(20), deptno number);
```

5. emp2 테이블의 구조를 확인한다

```
SQL> select table_name from user_tables;  
  
TABLE_NAME  
-----  
EMP2
```

6. emp2 테이블의 구조를 상세히 확인한다

```
SQL> desc emp2
```

Name	Null?	Type
EMPNO		NUMBER
ENAME		VARCHAR2(20)
DEPTNO		NUMBER

7. 插入 insert

```
SQL> insert into emp2 values(123,'test_user',456);
```

```
SQL> select * from emp2;
```

EMPNO	ENAME	DEPTNO
123	test_user	456

8. 更新 update

```
SQL> update emp2 set ename='wow' where ename='ggg';
```

1 row updated.

```
SQL> select * from emp2;
```

EMPNO	ENAME	DEPTNO
123	test_user	456
123	wow	102

9. 查看表空间

```
SQL> select tablespace_name,file_name from dba_data_files;
```

10. 查看用户

```
SQL> show user;
```

USER is "test_user"

```
SQL> alter user iheart identified by pass2;
```

11. 15分钟间隔

```
INSERT INTO A SELECT * FROM A AS OF TIMESTAMP(SYSTIMESTAMP - INTERVAL '15' MINUTE);
```

12. 数据库名称

```
SQL> select name, db_unique_name from v$database;
```

NAME	DB_UNIQUE_NAME
------	----------------

ORCL	orcl
------	------

13. SID [] [] [] []

```
SQL> select instance from v$thread;
```

```
INSTANCE
```

```
-----
```

```
orcl
```


Oracle ????

DB 10g : Oracle 10g

DB 10g (1521 DB LISTEN DB)

DB 10g web DB DB

DB 10g : sys, DB : DB DB DB

DB 10g : sysdba

Oracle10g???? ? ??

1. 10g (10.2.0.2 -> 10.2.0.5) startup DB open ,
ORA-01092: ORACLE instance terminated. Disconnection forced

2.

DB open

3. 1. DB

```
SQL> sqlplus / as sysdba
SQL> startup upgrade;
SQL> @$ORACLE_HOME/rdbms/admin/catupgrd.sql
```

*** 15~20

1. DB

```
SQL> shutdown immediate;
SQL> startup;
SQL> @$ORACLE_HOME/rdbms/admin/utlrp.sql
SQL> !
```

2. \$ORACLE_HOME/bin

```
[oracle@localhost ~] cd $ORACLE_HOME/install
[oracle@install ~] ./changePerm.sh
SQL> select * from v$version;
```

Oracle?? ???Lock??

Oracle?? Lock?? ??? ?? ??

1. Oracle?? ??? ?? ??

```
SQL> select username,account_status from dba_users;
```

USERNAME	ACCOUNT_STATUS
EXFSYS	EXPIRED & LOCKED
DMSYS	EXPIRED & LOCKED
WMSYS	EXPIRED & LOCKED
XDB	EXPIRED & LOCKED
ORDPLUGINS	EXPIRED & LOCKED
SI_INFORMTN_SCHEMA	EXPIRED & LOCKED
OLAPSYS	EXPIRED & LOCKED
MDDATA	EXPIRED & LOCKED
DIP	EXPIRED & LOCKED
SCOTT	EXPIRED & LOCKED
TSMSYS	EXPIRED & LOCKED
TEST	LOCKED

2. lock? test???? ??

```
SQL> alter user test account unlock;
```

3. unlock ?? ??

```
SQL> select username,account_status from dba_users;
```

USERNAME	ACCOUNT_STATUS
MGMT_VIEW	OPEN
SYS	OPEN
SYSTEM	OPEN
DBSNMP	OPEN
SYSMAN	OPEN
TEST	OPEN
SCOTT	EXPIRED
OUTLN	EXPIRED & LOCKED

MDSYS	EXPIRED & LOCKED
ORDSYS	EXPIRED & LOCKED
CTXSYS	EXPIRED & LOCKED

4. ☐ ☐ ☐

```
SQL> ALTER USER test IDENTIFIED BY testuser!!!!;
```