ORACLE

1. ORACLE

1.1.

1.1.1. Linux   oracle

groupadd dba

groupadd oinstall

useradd oracle -g oinstall -G dba

passwd oracle #   oracle

1.1.2.   home   Oracle

cd /home

mkdir oracle

```
[root@jianhan2 home]# cd /home
[root@jianhan2 home]# mkdir oracle
[root@jianhan2 home]# ls
h  jdk  lost+found  mongodb  oracle  soft  tomcat
[root@jianhan2 home]#
```

1.1.3.

chown -R oracle:dba /home/oracle

chmod -R 755 /home/oracle

```
[root@jianhan2 home]# chown -R oracle:dba /home/oracle
[root@jianhan2 home]# chmod -R 755 /home/oracle
[root@jianhan2 home]#
```

1.1.4.　　oracle

unzip linux.x64_11gR2_database_1of2.zip -d /home/oracle/

unzip linux.x64_11gR2_database_2of2.zip -d /home/oracle/

1.1.5.

vi /home/oracle/.bash_profile #

export ORACLE_BASE=/home/oracle/app #oracle

export ORACLE_HOME=$ORACLE_BASE /product/11.2.0/db_1

export ORACLE_SID=orcl #oracle

export ORACLE_TERM=xterm #xterm

export PATH=$ORACLE_HOME/bin:/usr/sbin:$PATH #

export LD_LIBRARY_PATH=$ORACLE_HOME/lib:/lib:/usr/lib　　　#

:wq! #

source /home/oracle/.bash_profile #

$ env | grep ORA #

oracle@oracledb   ~]$ env | grep ORA

ORACLE_BASE=   /home/oracle/app

ORACLE_HOME=/home/oracle/app/product/11.2.0/db_1

#

service iptables stop

```
[root@jianhan2 ~]# service iptables stop
iptables: Flushing firewall rules: [  OK  ]
iptables: Setting chains to policy ACCEPT: filter [  OK  ]
iptables: Unloading modules: [  OK  ]
[root@jianhan2 ~]# service iptables status
iptables: Firewall is not running.
[root@jianhan2 ~]#
```

1.1.6.

yum -y install   gcc gcc-c++ make binutilscompat-libstdc++-33   elfutils-libelf   elfutils-libelf-devel

glibc glibc-commonglibc-devel   libaio libaio-devel libgcclibstdc++ libstdc++-devel unixODBC

unixODBC-devel

rpm -q binutils   compat-libstdc++-33   elfutils-libelf   elfutils-libelf-devel   gcc gcc-c++ glibc
glibc-common glibc-devel glibc-headers kernel-headers ksh libaio   libaio-devel libgcc libgomp
libstdc++ libstdc++-devel make numactl-devel sysstat

```
binutils-2.23.52.0.1-30.el7.x86_64
compat-libstdc++-33-3.2.3-72.el7.i686
compat-libstdc++-33-3.2.3-72.el7.x86_64
elfutils-libelf-0.160-1.el7.x86_64
package elfutils-libelf-devel is not installed
gcc-4.8.3-9.el7.x86_64
package gcc-c++ is not installed
glibc-2.17-78.el7.x86_64
glibc-2.17-78.el7.i686
glibc-common-2.17-78.el7.x86_64
glibc-devel-2.17-78.el7.x86_64
glibc-headers-2.17-78.el7.x86_64
kernel-headers-3.10.0-229.el7.x86_64
package ksh is not installed
libaio-0.3.109-12.el7.i686
libaio-0.3.109-12.el7.x86_64
package libaio-devel is not installed
libgcc-4.8.3-9.el7.x86_64
libgcc-4.8.3-9.el7.i686
libgomp-4.8.3-9.el7.x86_64
libstdc++-4.8.2-16.el7.x86_64
package libstdc++-devel is not installed
make-3.82-21.el7.x86_64
package numactl-devel is not installed
sysstat-10.1.5-7.el7.x86_64
```

is not installed   yum search ksh

```
[root@host-172-18-163-111 ~]# yum search ksh
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
========================================================= N/S matched: ksh ===========
ksh.x86_64 : The Original ATT Korn Shell
mksh.x86_64 : MirBSD enhanced version of the Korn Shell

  Name and summary matches only, use "search all" for everything.
[root@host-172-18-163-111 ~]# ▮
```

yum install ksh.x86_64

```
[admin@localhost ~]$ yum search compat-libstdc++-33
Loaded plugins: fastestmirror, refresh-packagekit, security
Loading mirror speeds from cached hostfile
 * base: mirrors.zju.edu.cn
 * extras: mirrors.163.com
 * updates: mirrors.163.com
========================================================= N/S Matched: compat-
compat-libstdc++-33.i686 : Compatibility standard C++ libraries
compat-libstdc++-33.x86_64 : Compatibility standard C++ libraries
```

i686   x86_64

1.2.

1.2.1.

ORACLE	ZIP	database	response
rsp			

db_install.rsp

dbca.rsp

netca.rsp

db_install.rsp ， create database

```
grep  - Ev "  ^ $|^  #" db_install.rsp
```

sponseFileVersion=/oracle/install/rspfmt_dbinstall_response_schema_v11_2_0

oracle.install.option=INSTALL_DB_AND_CONFIG

ORACLE_HOSTNAME=localhost.localdomain

UNIX_GROUP_NAME=oinstall

INVENTORY_LOCATION=/home/oracle/app/oraInventory

SELECTED_LANGUAGES=en

ORACLE_HOME=/home/oracle/app/product/11.2.0/db_1

ORACLE_BASE=/home/oracle/app

oracle.install.db.InstallEdition=EE

oracle.install.db.isCustomInstall=false

oracle.install.db.customComponents=oracle.server:11.2.0.1.0,oracle.sysman.ccr:10.2.7.0
.0,oracle.xdk:11.2.0.1.0,oracle.rdbms.oci:11.2.0.1.0,oracle.network:11.2.0.1.0,oracle.netw
ork.listener:11.2.0.1.0,oracle.rdbms:11.2.0.1.0,oracle.options:11.2.0.1.0,oracle.rdbms.part
itioning:11.2.0.1.0,oracle.oraolap:11.2.0.1.0,oracle.rdbms.dm:11.2.0.1.0,oracle.rdbms.dv:
11.2.0.1.0,orcle.rdbms.lbac:11.2.0.1.0,oracle.rdbms.rat:11.2.0.1.0

oracle.install.db.DBA_GROUP=dba

oracle.install.db.OPER_GROUP=oinstall

oracle.install.db.CLUSTER_NODES=

oracle.install.db.config.starterdb.type=GENERAL_PURPOSE

oracle.install.db.config.starterdb.globalDBName=orcl

oracle.install.db.config.starterdb.SID=orcl

oracle.install.db.config.starterdb.characterSet=AL32UTF8

oracle.install.db.config.starterdb.memoryOption=true

oracle.install.db.config.starterdb.memoryLimit=400

oracle.install.db.config.starterdb.installExampleSchemas=false

oracle.install.db.config.starterdb.enableSecuritySettings=true

oracle.install.db.config.starterdb.password.ALL=oracle

oracle.install.db.config.starterdb.password.SYS=

oracle.install.db.config.starterdb.password.SYSTEM=

oracle.install.db.config.starterdb.password.SYSMAN=

oracle.install.db.config.starterdb.password.DBSNMP=

oracle.install.db.config.starterdb.control=DB_CONTROL

oracle.install.db.config.starterdb.gridcontrol.gridControlServiceURL=

```
oracle.install.db.config.starterdb.dbcontrol.enableEmailNotification=false
oracle.install.db.config.starterdb.dbcontrol.emailAddress=
oracle.install.db.config.starterdb.dbcontrol.SMTPServer=
oracle.install.db.config.starterdb.automatedBackup.enable=false
oracle.install.db.config.starterdb.automatedBackup.osuid=
oracle.install.db.config.starterdb.automatedBackup.ospwd=
oracle.install.db.config.starterdb.storageType=FILE_SYSTEM_STORAGE
oracle.install.db.config.starterdb.fileSystemStorage.dataLocation=
oracle.install.db.config.starterdb.fileSystemStorage.recoveryLocation=
oracle.install.db.config.asm.diskGroup=
oracle.install.db.config.asm.ASMSNMPPassword=
MYORACLESUPPORT_USERNAME=
MYORACLESUPPORT_PASSWORD=
SECURITY_UPDATES_VIA_MYORACLESUPPORT=
DECLINE_SECURITY_UPDATES=true
```

1.2.2.

```
./runInstaller -silent -ignorePrereq -responseFile /home/oracle/database/response/db_install.rsp
```

[oracle@oracledb database]$ ./runInstaller -silent -ignorePrereq -responseFile /home/oracle/database/response/db_install.rsp

```
Starting Oracle Universal Installer...

Checking Temp space: must be greater than 120 MB.        Actual 165908 MB        Passed
Checking swap space: must be greater than 150 MB.        Actual 16383 MB        Passed
Preparing to launch Oracle Universal Installer from
/tmp/OraInstall2015-01-29_03-35-32PM. Please wait ...[oracle@oracledb
database]$ [WARNING] [INS-32055] The Central Inventory is located in the Oracle base.
   CAUSE: The Central Inventory is located in the Oracle base.
   ACTION: Oracle recommends placing this Central Inventory in a location outside the
Oracle base directory.
[WARNING] [INS-13014] Target environment do not meet some optional requirements.
   CAUSE: Some of the optional prerequisites are not met. See logs for details.
/tmp/OraInstall2015-01-29_03-35-32PM/installActions2015-01-29_03-35-32PM.log
   ACTION: Identify the list of failed prerequisite checks from the log:
/tmp/OraInstall2015-01-29_03-35-32PM/installActions2015-01-29_03-35-32PM.log. Then
either from the log file or from installation manual find the appropriate configuration to
```

meet the prerequisites and fix it manually.

[WARNING] [INS-32055] The Central Inventory is located in the Oracle base.

　　CAUSE: The Central Inventory is located in the Oracle base.

　　ACTION: Oracle recommends placing this Central Inventory in a location outside the Oracle base directory.

[WARNING] [INS-13014] Target environment do not meet some optional requirements.

　　CAUSE: Some of the optional prerequisites are not met. See logs for details.

/tmp/OraInstall2015-01-29_03-35-32PM/installActions2015-01-29_03-35-32PM.log

　　ACTION: Identify the list of failed prerequisite checks from the log:

/tmp/OraInstall2015-01-29_03-35-32PM/installActions2015-01-29_03-35-32PM.log. Then either from the log file or from installation manual find the appropriate configuration to meet the prerequisites and fix it manually.

You can find the log of this install session at:

 /opt/app/oracle/oraInventory/logs/installActions2015-01-29_03-35-32PM.log

The following configuration scripts need to be executed as the "root" user.

 #!/bin/sh

 #Root scripts to run

/opt/app/oracle/oraInventory/orainstRoot.sh

/opt/app/oracle/product/11.2.0/db_1/root.sh

To execute the configuration scripts:

　　　　1. Open a terminal window

　　　　2. Log in as "root"

　　　　3. Run the scripts

　　　　4. Return to this window and hit "Enter" key to continue

Successfully Setup Software.

1.2.3.

$ORACLE_HOME/bin/netca /silent /responseFile /opt/database/response/netca.rsp

```
[oracle@oracledb bin]$ $ORACLE_HOME/bin/netca /silent /responseFile

/opt/database/response/netca.rsp


Parsing command line arguments:

    Parameter "silent" = true

    Parameter "responsefile" = /opt/database/response/netca.rsp

Done parsing command line arguments.

Oracle Net Services Configuration:

Profile configuration complete.

Listener "LISTENER" already exists.

Oracle Net Services configuration successful. The exit code is 0
```

1.2.4.

```
/home/oracle/app/product/11.2.0/db_1/bin/lsnrctl start LISTENER
```

1.2.5.

```
oracle@oracledb]$    vi /home/oracle/database/response/dbca.rsp
```

GDBNAME = "orallocalhost.localdomain"	78	=SID+

```
SID="orcl" //149      SID
```

```
CHARACTERSET="AL32UTF8" //415
```

```
NATIONALCHARACTERSET="UTF8" //425
```

```
[oracle@oracledb response]$ $ORACLE_HOME/bin/dbca -silent -responseFile

/home/oracle/database/response/dbca.rsp

Enter SYS user password:


Enter SYSTEM user password:


sh: /bin/ksh: No such file or directory

sh: /bin/ksh: No such file or directory

Copying database files

1% complete

3% complete
```

11% complete

18% complete

26% complete

37% complete

Creating and starting Oracle instance

40% complete

45% complete

50% complete

55% complete

56% complete

57% complete

60% complete

62% complete

Completing Database Creation

66% complete

70% complete

73% complete

74% complete

85% complete

96% complete

100% complete

Look at the log file "/opt/app/oracle/cfgtoollogs/dbca/ora11g/ora11g.log" for further details.

1.2.6.

```
$ sqlplus / as sysdba        //as

[oracle@oracledb ~]$ sqlplus / as sysdba

SQL*Plus: Release 11.2.0.1.0 Production on Mon Feb 16 14:26:57 2015

Copyright (c) 1982, 2009, Oracle.        All rights reserved.

Connected to an idle instance.
```

```
SQL> start

SP2-1506: START, @ or @@ command has no arguments

SQL> startup

ORACLE instance started.


Total System Global Area 3290345472 bytes

Fixed Size                  2217832 bytes

Variable Size            1795164312 bytes

Database Buffers         1476395008 bytes

Redo Buffers               16568320 bytes

Database mounted.

Database opened.

SQL>

     show parameter          select table_name from dba_tables




SQL>shutdown immediate
```

lsnrctl start
lsnrctl status
lsnrctl stop

The listener supports no services

listener.ora

```
SID_LIST_LISTENER =
(SID_LIST =
 (SID_DESC =
 (GLOBAL_DBNAME = orcl)
 (SID_NAME = orcl)
 )
)
```

1.2.7.

ORACLE

sql> conn / as sysdba;
sql> shutdown immediate;
　　　database closed.
　　database dismounted.
　　oracle instance shut down.
sql> startup mount;
　　oracle instance started.
　　total system global area　135337420 bytes
　　fixed size　　　　　　　　　452044 bytes
　　variable size　　　　　　109051904 bytes
　　database buffers　　　　25165824 bytes
　　redo buffers　　　　　　667648 bytes
　　database mounted.
sql> alter system enable restricted session;
　　system altered.
sql> alter system set job_queue_processes=0;
　　system altered.
sql> alter system set aq_tm_processes=0;
　　system altered.
sql> alter database open;
　　database altered.
sql> alter database character set internal_use　AL32UTF8;
sql> shutdown immediate;
sql> startup;
　　　　　　　　　　　　　　　　　UTF-8　　　GBK