

使用 VBox 安装 Oracle Database 12c Flex Cluster for OEL 5.8

第 2 部分 前期准备工作 (磁盘和 yum 源)

本系列为 [Lunar\(www.lunar2013.com\)](http://www.lunar2013.com) 原创，一共 5 篇，分别为：

[第 1 部分 环境介绍](#)

[第 2 部分 前期准备工作](#)

[第 3 部分 准备网络环境](#)

[第 4 部分 开始安装](#)

[第 5 部分 总结](#)

关于 OS，文档有如下介绍：

Oracle Linux 6:

```
# yum install oracle-rdbms-server-12cR1-preinstall
```

Oracle Linux 5 or Oracle Linux 4:

```
# yum install oracle-validated
```

You should see output indicating that you have subscribed to the Oracle Linux channel, and that packages are being installed. For example:

```
e15_u6_i386_base  
e15_u6_x86_64_patch
```

**Check the RPM log file to review the system configuration changes.
For example:**

Oracle Linux 6:

```
/var/log/oracle-rdbms-server-12cR1-preinstall/results/orakernel.log
```

Oracle Linux 5:

```
/var/log/oracle-validated/results/orakernel.log
```

这部分内容，跟以前的内容区别不大。

配置 ASM 盘

```
[root@lunar ~]# fdisk -l /dev/sdd

Disk /dev/sde: 10.7 GB, 10737418240 bytes
255 heads, 63 sectors/track, 1305 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes

    Device Boot            Start        End          Blocks      Id System
[root@lunar ~]#
[root@lunar ~]# cat /etc/udev/rules.d/60-raw.rules
# Enter raw device bindings here.
#
# An example would be:
#   ACTION=="add", KERNEL=="sda", RUN+="/bin/raw /dev/raw/raw1 %N"
# to bind /dev/raw/raw1 to /dev/sda, or
#   ACTION=="add", ENV{MAJOR}=="8", ENV{MINOR}=="1", RUN+="/bin/raw /dev/raw/raw2 %M %m"
# to bind /dev/raw/raw2 to the device with major 8, minor 1.

ACTION=="add", KERNEL=="sdd", RUN+="/bin/raw /dev/raw/raw1 %N"
ACTION=="add", KERNEL=="sdb", RUN+="/bin/raw /dev/raw/raw2 %N"
ACTION=="add", KERNEL=="raw[1-2]", OWNER="grid", GROUP="asmadmin", MODE="0660"

[root@lunar ~]#
[root@lunar ~]# chmod -R 660 /dev/sdd
[root@lunar ~]# chown grid:asmadmin /dev/sdd
[root@lunar ~]# start_udev
Starting udev: [ OK ]
[root@lunar ~]# raw -qa
/dev/raw/raw1: bound to major 8, minor 64
[root@lunar ~]#

[root@lunar ~]# cat /etc/rc.local
#!/bin/sh
#
# This script will be executed *after* all the other init scripts.
```

```
# You can put your own initialization stuff in here if you don't
# want to do the full Sys V style init stuff.
```

```
touch /var/lock/subsys/local
```

```
chmod -R 660 /dev/sdd
chown grid:asmadmin /dev/sdd
```

```
chmod -R 660 /dev/sdb
chown grid:asmadmin /dev/sdb
```

```
[root@lunar ~]#
```

检查:

```
ll /dev/sdd
ll /dev/sdb
ll /dev/raw/raw*
```

配置一个 yum 源

```
[root@lunar1 ~]# df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/mapper/VolGroup00-LogVol100					
	7.8G	5.5G	1.9G	75%	/
/dev/sda1	99M	50M	45M	53%	/boot
/dev/sdc1	12G	159M	12G	2%	/u01
/dev/sde1	12G	159M	12G	2%	/u01/app/oracle
tmpfs	2.0G	0	2.0G	0%	/dev/shm
/dev/sr0	3.7G	3.7G	0	100%	/media/OL5.8_x86_64_dvd_20120229

```
[root@lunar1 ~]#
```

```
[root@lunar1 ~]# umount /media/"OL5.8_x86_64_dvd_20120229"
```

```
[root@lunar1 ~]# df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/mapper/VolGroup00-LogVol100					
	7.8G	5.5G	1.9G	75%	/
/dev/sda1	99M	50M	45M	53%	/boot
/dev/sdc1	12G	159M	12G	2%	/u01
/dev/sde1	12G	159M	12G	2%	/u01/app/oracle

```
tmpfs                2.0G          0  2.0G    0% /dev/shm
```

```
[root@lunar1 ~]#
```

```
[root@lunar1 ~]# mount /dev/sr0 /media/ISO
```

```
mount: block device /dev/sr0 is write-protected, mounting read-only
```

```
[root@lunar1 ~]# df -h
```

```
Filesystem            Size  Used Avail Use% Mounted on
/dev/mapper/VolGroup00-LogVol100
                        7.8G  5.5G  1.9G  75% /
/dev/sda1              99M   50M   45M  53% /boot
/dev/sdc1             12G  159M   12G   2% /u01
/dev/sde1             12G  159M   12G   2% /u01/app/oracle
tmpfs                  2.0G          0  2.0G    0% /dev/shm
/dev/sr0               3.7G   3.7G          0 100% /media/ISO
```

```
[root@lunar1 ~]#
```

```
[root@lunar1 ~]# ls /media/ISO
```

```
blafdoc.css          EULA                GPL                 README-en          RELEASE-NOT
ES-en.html          Server              VT
Cluster              eula.en_US         images             README-en.html     RPM-GPG-KEY
                    supportinfo
ClusterStorage      eula.py            isolinux          RELEASE-NOTES-en  RPM-GPG-KEY-oracle  TR
ANS.TBL
```

```
[root@lunar1 ~]#
```

```
=====配置本地 yum 源需要，光驱自带的不需要=====
```

```
[root@lunar1 ~]# ls /media/ISO/Server/cr*
```

```
/media/ISO/Server/cracklib-2.8.9-3.3.i386.rpm          /media/ISO/Server/crontabs-1
.10-8.noarch.rpm
/media/ISO/Server/cracklib-2.8.9-3.3.x86_64.rpm       /media/ISO/Server/crypto-utils
-2.3-2.el5.x86_64.rpm
/media/ISO/Server/cracklib-dicts-2.8.9-3.3.x86_64.rpm /media/ISO/Server/cryptsetup-luks-1.
0.3-8.el5.i386.rpm
/media/ISO/Server/crash-5.1.8-1.el5.x86_64.rpm      /media/ISO/Server/cryptsetup-
luks-1.0.3-8.el5.x86_64.rpm
/media/ISO/Server/crash-devel-5.1.8-1.el5.i386.rpm  /media/ISO/Server/cryptsetup-luks
-devel-1.0.3-8.el5.i386.rpm
/media/ISO/Server/crash-devel-5.1.8-1.el5.x86_64.rpm /media/ISO/Server/cryptsetup-luks-d
evel-1.0.3-8.el5.x86_64.rpm
/media/ISO/Server/createrepo-0.4.11-3.el5.noarch.rpm
```

```
[root@lunar1 ~]# rpm -ivh /media/ISO/Server/createrepo-0.4.11-3.el5.noarch.rpm
```

```
warning: /media/ISO/Server/createrepo-0.4.11-3.el5.noarch.rpm: Header V3 DSA signature: NOKEY,
```

```
key ID 1e5e0159
Preparing... ##### [100%]
package createrepo-0.4.11-3.el5.noarch is already installed
[root@lunar1 ~]#
```

生成 RPM 数据库(配置本地 yum 源需要, 光驱自带的不要):

```
createrepo -o /stage/ -g /media/ISO/Server/repodata/comps-rhel5-server-core.xml
/media/ISO/Server/
```

其中:

- /stage 是 iso 文件存放的目录
- /media/ISO 是 mount 点
- /media/ISO/Server/repodata/comps-rhel5-server-core.xml 一个真实的文件
- /media/ISO/Server/ 是真是的目录

```
[root@lunar1 ~]# createrepo -o /stage/ -g
/media/ISO/Server/repodata/comps-rhel5-server-core.xml /media/ISO/Server/
3321/3321 - oracle_updated/oracleasm-2.6.18-308.0.0.1.el5debug-2.0.5-1.el5.x86_64.rpm
Saving Primary metadata
Saving file lists metadata
Saving other metadata
[root@lunar1 ~]#
```

```
=====
=====
```

```
[root@lunar1 ~]# mount /dev/sr0 /media/ISO
mount: block device /dev/sr0 is write-protected, mounting read-only
[root@lunar1 ~]# cat /etc/yum.repos.d/yum.repo
[yum]
name=OEL-Linux-5.8
baseurl=file:///media/ISO/Server
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-oracle
enabled=1
gpgcheck=0
[root@lunar1 ~]#
```

```
[root@lunar1 ~]# mount --bind /stage/repodata/ /media/ISO/Server/repodata/
[root@lunar1 ~]# ls /media/ISO/Server/repodata/
comps-rhel5-server-core.xml  filelists.xml.gz  other.xml.gz  primary.xml.gz  repomd.xml
[root@lunar1 ~]# ls /stage/repodata
comps-rhel5-server-core.xml  filelists.xml.gz  other.xml.gz  primary.xml.gz  repomd.xml
[root@lunar1 ~]#
```