

单节点部署lustre服务端和客户端

准备

查看CentOS8.4对应的内核版本

```
$ uname -r
4.18.0-305.3.1.el8.x86_64
```

查找对应的lustre版本

去<https://downloads.whamcloud.com/public/lustre>查找可支持的版本

我找的是<https://downloads.whamcloud.com/public/lustre/lustre-2.15.1-ib/MOFED-5.6-2.0.9.0/el8.6/>

软件安装

配置yum源

```
$ cat >/tmp/lustre-repo.conf <<\__EOF
[lustre-server]
name=lustre-server
baseurl=https://downloads.whamcloud.com/public/lustre/lustre-2.15.1-ib/MOFED-5.6-2.0.9.0/el8.6/server/
# exclude=*debuginfo*
gpgcheck=0

[lustre-client]
name=lustre-client
baseurl=https://downloads.whamcloud.com/public/lustre/lustre-2.15.1-ib/MOFED-5.6-2.0.9.0/el8.6/client/
# exclude=*debuginfo*
gpgcheck=0

[e2fsprogs-wc]
name=e2fsprogs-wc
baseurl=https://downloads.whamcloud.com/public/e2fsprogs/latest/el8
# exclude=*debuginfo*
gpgcheck=0
```

下载相关软件包

```
$ mkdir -p /var/www/html/repo
$ cd /var/www/html/repo
$ yum install -y yum-utils
$ reposync -c /tmp/lustre-repo.conf --repoid=lustre-server --repoid=lustre-client --repoid=e2fsprogs-wc
```

创建repo

```
$ cd /var/www/html/repo
$ for i in e2fsprogs-wc lustre-client lustre-server; do
(cd $i && createrepo .)
done
```

配置本地yum源

在/etc/yum.repos.d/创建文件lustre.repo

```
[lustre-server]
name=lustre-server
baseurl=file:///var/www/html/repo/lustre-server
enabled=0
gpgcheck=0
proxy=_none_

[lustre-client]
name=lustre-client
baseurl=file:///var/www/html/repo/lustre-client
enabled=0
gpgcheck=0

[e2fsprogs-wc]
name=e2fsprogs-wc
baseurl=file:///var/www/html/repo/e2fsprogs-wc
enabled=0
gpgcheck=0
```

安装e2fsprogs

```
yum --nogpgcheck --disablerepo=* --enablerepo=e2fsprogs-wc install e2fsprogs
```

安装lustre server软件

```
yum --nogpgcheck --disablerepo=base,extras,updates --enablerepo=lustre-server
install kernel kernel-devel kernel-headers kernel-tools kernel-tools-libs kernel-
tools-libs-devel
```

重启

```
reboot
```

安装ldiskfs kmod和lustre包

```
yum --nogpgcheck --enablerepo=lustre-server install kmod-lustre kmod-lustre-osd-
ldiskfs lustre-osd-ldiskfs-mount lustre lustre-resource-agents
```

这里可能会报错，缺少resource-agents，直接去下载，安装即可

搭建lustre

启动服务

```
$ modprobe lustre
$ systemctl restart lustre
```

服务端配置

```
$ mkdir /mnt/mdt
$ mkfs.lustre --fsname=lustrefs --mgs --mdt --index=0 /dev/sdd
# mdt
$ mkdir /mnt/ost
$ mkfs.lustre --fsname=lustrefs --mgsnode=192.168.1.2@tcp --ost --index=0
/dev/sde # ost
$ mount.lustre /dev/sdd /mnt/mdt # 挂载mdt
$ mount.lustre /dev/sde /mnt/ost # 挂载ost
```

客户端配置

```
$ mkdir /mnt/lustre
$ mount.lustre 192.168.1.2@tcp:/lustrefs /mnt/lustre # 挂载lustre
```