

TDS: Cray XC (dom)

Lustre layout Lustre implements a separation of data and metadata:

- The metadata is stored on a Metadata Target (MDT)
- The data is stored on a number of Object Storage Targets (OSTs)
- A Metadata Server (MDS) serves all file system requests for metadata, and it looks after the MDT
- A number of Object Storage Servers (OSS) each look after several OSTs and serve requests for data on those OSTs.

```
piccinal@dom101:~$
df -h /scratch/*
Filesystem                                Size  Used Avail Use% Mounted on
148.187.4.99@o2ib6002:148.187.4.100@o2ib6001:/snx11031 170T  1.4T 166T   1% /scratch/snx1600tds
148.187.4.82@o2ib3002:148.187.4.83@o2ib3001:/snx11104 226T  296G 223T   1% /scratch/snx2000tds
```

```
piccinal@dom101:~$
lfs osts
OBDS::
0: snx11104-OST0000_UUID ACTIVE
1: snx11104-OST0001_UUID ACTIVE
OBDS::
0: snx11031-OST0000_UUID ACTIVE
1: snx11031-OST0001_UUID ACTIVE
```

```
piccinal@dom101:~$
lfs df -h /scratch/snx1600tds/
UUID                                bytes      Used    Available Use% Mounted on
snx11031-MDT0000_UUID                2.1T        4.3G      2.1T     0% /scratch/snx1600tds[MDT:0]
snx11031-OST0000_UUID                84.5T    338.9G    83.2T     0% /scratch/snx1600tds[OST:0]
snx11031-OST0001_UUID                84.5T     1.0T    82.5T     1% /scratch/snx1600tds[OST:1]

filesystem summary:                169.1T      1.3T    165.7T     1% /scratch/snx1600tds
```