

LVM **raw devices** 3

1.

```

defaults {
    find_multipaths yes
    user_friendly_names yes
}

# make your luns to human readable name
multipaths {
    multipath {
        wwid          360002ac000000000000000000020000f8cc
        alias          lunlg001
    }
    multipath {
        wwid          360002ac000000000000000000030000f8cc
        alias          lunlg002
    }
}

```

2. LUN RAW Device

/etc/udev/rules.d/60-raw.rules

```

# RAW Device          rawN          N > 0          .
ACTION=="add|change", ENV{DM_NAME}=="lunlg001", RUN+="/bin/raw /dev/raw/raw1
%N"
ACTION=="add|change", ENV{DM_NAME}=="lunlg002", RUN+="/bin/raw /dev/raw/raw2
%N"

```

3. 가 . /etc/udev/rules.d/12-dm-permission.rules

```

ENV{DM_UUID}=="mpath-?*", OWNER=="oracle", GROUP=="dba", MODE=="660"

```

4. RAW Device Oracle RAC .

LVM raw devices

1. LVM

```

[root@localhost mapper]# pvs
PV          VG      Fmt Attr PSize  PFree
/dev/sda2   centos lvm2 a--  <19.00g  0
/dev/sdb    vg_raw lvm2 a--  <20.00g <5.00g

[root@localhost mapper]# vgs

```

```
VG      #PV #LV #SN Attr   VSize   VFree
centos  1   2   0 wz--n- <19.00g    0
vg_raw  1   3   0 wz--n- <20.00g <5.00g
```

```
[root@localhost mapper]# lvs
LV      VG      Attr          LSize   Pool Origin Data%  Meta%  Move Log
Cpy%Sync Convert
root    centos -wi-ao----- <17.00g
swap    centos -wi-ao-----  2.00g
raw_1   vg_raw -wi-a-----  5.00g
raw_2   vg_raw -wi-a-----  5.00g
raw_3   vg_raw -wi-a-----  5.00g
```

2. raw devices /etc/udev/rules.d/60-raw.rules

```
ACTION!="add|change", GOTO="raw_end"

# Create raw character device mapping:
ENV{DM_VG_NAME}=="vg_raw", ENV{DM_LV_NAME}=="raw_1", RUN+="/bin/raw
/dev/raw/raw1 %N" // DM_VG_NAME VG , LV_NAME lv
ENV{DM_VG_NAME}=="vg_raw", ENV{DM_LV_NAME}=="raw_2", RUN+="/bin/raw
/dev/raw/raw2 %N"
ENV{DM_VG_NAME}=="vg_raw", ENV{DM_LV_NAME}=="raw_3", RUN+="/bin/raw
/dev/raw/raw3 %N"

# # To set permissions:
KERNEL=="raw*", OWNER=="root", GROUP=="root", MODE=="0660" // OWNER
GROUP (ex: oracle,tibero ..)

LABEL="raw_end"
```

3. 가 rules

```
[root@localhost mapper]# udevadm control --reload-rules
[root@localhost mapper]# udevadm trigger --type=devices --action=change
```

```
[root@localhost mapper]# raw -qa
/dev/raw/raw1: bound to major 253, minor 2
/dev/raw/raw2: bound to major 253, minor 3
/dev/raw/raw3: bound to major 253, minor 4

[root@localhost mapper]# lvs -o +lv_kernel_major,lv_kernel_minor
LV      VG      Attr          LSize   Pool Origin Data%  Meta%  Move Log
Cpy%Sync Convert KMaj KMin
root    centos -wi-ao----- <17.00g
253     0
swap    centos -wi-ao-----  2.00g
```

```
253    1
      raw_1 vg_raw -wi-a----- 5.00g
253    2
      raw_2 vg_raw -wi-a----- 5.00g
253    3
      raw_3 vg_raw -wi-a----- 5.00g
253    4
```

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