

Table of Contents

- Multipath** 1
- Mapping point* 1
- Initialize multipath.conf* 1
- Default Blacklist* 1
- Block devices under two paths* 1
- ORACLE DB** 1
- Multipath info** 2

Multipath

```
yum install device-mapper-multipath
```

Mapping point

```
/dev/mapper/mpathN
```

Initialize multipath.conf

```
mpathconf --enable --user_friendly_names y
```

Default Blacklist

```
blacklist {  
    devnode "^(ram|raw|loop|fd|md|dm-|sr|scd|st)[0-9]*"  
}
```

Block devices under two paths

```
defaults {  
    ...  
        find_multipaths yes  
    ...  
}
```

ORACLE DB

```
rescan-scsi-bus.sh
```

```
cd /dev/disk/by-id/  
ls -lthr
```

```
grep scsi-xxxxxxxxxxxxxxxxxxxx-part1
```

```
devices {  
    device {  
        vendor "COMPELNT"  
        product "Compellent Vol"  
        features "0"  
        hardware_handler "0"  
        prio "const"  
        no_path_retry 24  
        path_grouping_policy "multibus"  
        path_checker "tur"  
        failback immediate  
        rr_weight "uniform"  
        fast_io_fail_tmo 5  
        dev_loss_tmo infinity  
        path_selector "round-robin 0"  
    }  
}
```

```
}  
  
multipaths {  
    multipath {  
        wwid 36000d310042cbc0000000000000000004  
        alias DATA_01  
        features "1 queue_if_no_path"  
    }  
}  
  
defaults {  
    no_path_retry    fail  
    find_multipaths yes  
    user_friendly_names yes  
    polling_interval 5  
}
```

DATA_01 should be ASM name

Multipath info

```
multipath -ll
```

```
mpatha (36000d310042cbc0000000000000000004) dm-2 COMPELNT,Compellent Vol  
size=500G features='1 queue_if_no_path' hwhandler='0' wp=rw  
`-+- policy='service-time 0' prio=1 status=active  
  |- 7:0:0:1 sdb 8:16 active ready running  
  |- 7:0:2:1 sdc 8:32 active ready running  
  |- 16:0:0:1 sdd 8:48 active ready running  
  `-- 16:0:2:1 sde 8:64 active ready running
```

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