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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 36000d310042cbc000000000000000000004
    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 (36000d310042cbc000000000000000000004) 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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