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RAID

Dokumentasi seputar RAID

1. Membuat RAID 1 SDC & SDD

Membuat raid array full size dan berikut ini tahapannya

1.1 Format Hardisk

```
fdisk /dev/sdc
```

ikuti opsi ini

```
Command (m for help): n
Command action
   e   extended
   p   primary partition (1-4)
p
Partition number (1-4): 1
First cylinder (1-8910, default 1):
Using default value 1
Last cylinder or +size or +sizeM or +sizeK (1-8910, default 8910): (
langsung enter apabila full size )
```

Kemudian tampilkan hasilnya

```
Command (m for help): p
Disk /dev/sdc: 250.1 GB, 250059350016 bytes
255 heads, 63 sectors/track, 30401 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Sector size (logical/physical): 512 bytes / 4096 bytes
I/O size (minimum/optimal): 4096 bytes / 4096 bytes
Disk identifier: 0x000923aa

   Device Boot      Start         End      Blocks   Id  System
/dev/sdc1               1       30401   244196001   83  Linux
```

Aktifkan partisi sebagai Raid Auto Detect

```
Command (m for help): t
Selected partition 1
Hex code (type L to list codes): fd
Changed system type of partition 1 to fd (Linux raid autodetect)
```

```
Command (m for help): p

Disk /dev/sdc: 250.1 GB, 250059350016 bytes
255 heads, 63 sectors/track, 30401 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Sector size (logical/physical): 512 bytes / 4096 bytes
I/O size (minimum/optimal): 4096 bytes / 4096 bytes
Disk identifier: 0x000923aa

   Device Boot      Start         End      Blocks   Id  System
/dev/sdc1               1       30401   244196001   fd  Linux raid
autodetect
Partition 1 does not start on physical sector boundary.
```

Lakukan hal yang sama seperti diatas pada SDD

1.2 Buat RAID Array

Lihat dulu partisi array yang ada pastikan jangan sampai bentrok

```
cat /proc/mdstat
```

hasilnya

```
Personalities : [raid1]
md1 : active raid1 sda3[0] sdb3[1]
      306880 blocks super 1.1 [2/2] [UU]

md0 : active raid1 sda1[0] sdb1[1]
      614336 blocks super 1.0 [2/2] [UU]

md127 : active (auto-read-only) raid1 sda4[0] sdb4[1]
      2826812224 blocks super 1.1 [2/2] [UU]
        resync=PENDING
      bitmap: 22/22 pages [88KB], 65536KB chunk

md2 : active raid1 sdb2[1] sda2[0]
      102334336 blocks super 1.1 [2/2] [UU]
      bitmap: 1/1 pages [4KB], 65536KB chunk
```

anda bisa menggunakan misalnya md3 caranya

```
mdadm --create /dev/md3 --level=1 --raid-devices=2 /dev/sdc1 /dev/sdd1
```

dan pantau perubahannya

```
watch cat /proc/mdstat
```

dan hasilnya

```
Personalities : [raid1]
md3 : active raid1 sdd1[1] sdc1[0]
      244064896 blocks super 1.2 [2/2] [UU]
      [======>.............]  resync = 34.6% (84689728/244064896)
finish=19.7min speed=134492K/sec
      bitmap: 2/2 pages [8KB], 65536KB chunk

md1 : active raid1 sda3[0] sdb3[1]
      306880 blocks super 1.1 [2/2] [UU]

md0 : active raid1 sda1[0] sdb1[1]
      614336 blocks super 1.0 [2/2] [UU]

md127 : active (auto-read-only) raid1 sda4[0] sdb4[1]
      2826812224 blocks super 1.1 [2/2] [UU]
        resync=PENDING
      bitmap: 22/22 pages [88KB], 65536KB chunk

md2 : active raid1 sdb2[1] sda2[0]
      102334336 blocks super 1.1 [2/2] [UU]
      bitmap: 0/1 pages [0KB], 65536KB chunk
```

2. Referensi

1. http://www.cyberciti.biz/faq/centos-redhat-rhel-linux-setup-create-raid1/

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