Создал массив RAID 5 из 5 дисков (каждый диск по 10G):

```
/dev/md0:
            Version : 1.2
      Creation Time : Fri May 28 13:05:36 2021
         Raid Level : raid5
         Array Size : 41906176 (39.96 GiB 42.91 GB)
      Used Dev Size : 10476544 (9.99 GiB 10.73 GB)
       Raid Devices : 5
      Total Devices : 5
        Persistence : Superblock is persistent

        Update Time : Sat May 29 01:59:43 2021
              State : clean
     Active Devices : 5
    Working Devices : 5
     Failed Devices : 0
      Spare Devices : 0

             Layout : left-symmetric
         Chunk Size : 512K

 Consistency Policy : resync

               Name : localhost.localdomain:0  (local to host localhost.localdomain)
               UUID : 3bd6fddf:ef74956d:a8627590:ccc0b1e4
             Events : 18

    Number   Major   Minor   RaidDevice State
       0       8       16        0      active sync   /dev/sdb
       1       8       32        1      active sync   /dev/sdc
       2       8       48        2      active sync   /dev/sdd
       3       8       64        3      active sync   /dev/sde
       5       8       80        4      active sync   /dev/sdf
```

Создал раздел /data, смонтировал массив /dev/md0. Общий объем такой:

```
[acme@localhost ~]$ df -h
Filesystem               Size  Used Avail Use% Mounted on
/dev/mapper/centos-root   17G  1.2G   16G   7% /
devtmpfs                 475M     0  475M   0% /dev
tmpfs                    487M     0  487M   0% /dev/shm
tmpfs                    487M  7.7M  479M   2% /run
tmpfs                    487M     0  487M   0% /sys/fs/cgroup
/dev/sda1               1014M  133M  882M  14% /boot
/dev/md0                  40G   49M   38G   1% /data
tmpfs                     98M     0   98M   0% /run/user/1000
```

Подключил автомонтирование изменив конфигурационный файл /etc/fstab:

```
/dev/md0 /data ext4 defaults 1 2
```

Наполнил некоторыми данными раздел /data:

```
[acme@localhost ~]$ ls /data/
Important.txt  lost+found  test.txt
[acme@localhost ~]$
```

Пометил диск /sdb как сбойный, после чего отключил от массива:

```
/dev/md0:
           Version : 1.2
     Creation Time : Fri May 28 13:05:36 2021
        Raid Level : raid5
        Array Size : 41906176 (39.96 GiB 42.91 GB)
     Used Dev Size : 10476544 (9.99 GiB 10.73 GB)
      Raid Devices : 5
     Total Devices : 4
       Persistence : Superblock is persistent

       Update Time : Sat May 29 02:28:21 2021
             State : clean, degraded
    Active Devices : 4
   Working Devices : 4
    Failed Devices : 0
     Spare Devices : 0

            Layout : left-symmetric
        Chunk Size : 512K

Consistency Policy : resync

              Name : localhost.localdomain:0  (local to host localhost.localdomain)
              UUID : 3bd6fddf:ef74956d:a8627590:ccc0b1e4
            Events : 21

    Number   Major   Minor   RaidDevice State
       -       0       0        0        removed
       1       8      32        1        active sync   /dev/sdc
       2       8      48        2        active sync   /dev/sdd
       3       8      64        3        active sync   /dev/sde
       5       8      80        4        active sync   /dev/sdf
```

Добавил новый диск /sdg в массив:

```
/dev/md0:
           Version : 1.2
     Creation Time : Fri May 28 13:05:36 2021
        Raid Level : raid5
        Array Size : 41906176 (39.96 GiB 42.91 GB)
     Used Dev Size : 10476544 (9.99 GiB 10.73 GB)
      Raid Devices : 5
     Total Devices : 5
       Persistence : Superblock is persistent

       Update Time : Sat May 29 02:38:43 2021
             State : clean, degraded, recovering
    Active Devices : 4
   Working Devices : 5
    Failed Devices : 0
     Spare Devices : 1

            Layout : left-symmetric
        Chunk Size : 512K

Consistency Policy : resync

    Rebuild Status : 19% complete

              Name : localhost.localdomain:0  (local to host localhost.localdomain)
              UUID : 3bd6fddf:ef74956d:a8627590:ccc0b1e4
            Events : 36

    Number   Major   Minor   RaidDevice State
       6       8      96        0        spare rebuilding   /dev/sdg
       1       8      32        1        active sync   /dev/sdc
       2       8      48        2        active sync   /dev/sdd
       3       8      64        3        active sync   /dev/sde
       5       8      80        4        active sync   /dev/sdf
```

Расширил массив до 6 дисков:

```
/dev/md0:
          Version : 1.2
    Creation Time : Fri May 28 13:05:36 2021
       Raid Level : raid5
       Array Size : 52382720 (49.96 GiB 53.64 GB)
    Used Dev Size : 10476544 (9.99 GiB 10.73 GB)
     Raid Devices : 6
    Total Devices : 6
      Persistence : Superblock is persistent

      Update Time : Sat May 29 03:02:08 2021
            State : clean
   Active Devices : 6
  Working Devices : 6
   Failed Devices : 0
    Spare Devices : 0

           Layout : left-symmetric
       Chunk Size : 512K

Consistency Policy : resync

             Name : localhost.localdomain:0  (local to host localhost.localdomain)
             UUID : 3bd6fddf:ef74956d:a8627590:ccc0b1e4
           Events : 197

    Number   Major   Minor   RaidDevice State
       6       8       96        0        active sync   /dev/sdg
       1       8       32        1        active sync   /dev/sdc
       2       8       48        2        active sync   /dev/sdd
       3       8       64        3        active sync   /dev/sde
       5       8       80        4        active sync   /dev/sdf
       7       8       16        5        active sync   /dev/sdb
```

Увеличил размер раздела /data:

```
[root@localhost ~]# df -h
Filesystem                Size  Used Avail Use% Mounted on
/dev/mapper/centos-root    17G  1.2G   16G   7% /
devtmpfs                  475M     0  475M   0% /dev
tmpfs                     487M     0  487M   0% /dev/shm
tmpfs                     487M  7.7M  479M   2% /run
tmpfs                     487M     0  487M   0% /sys/fs/cgroup
/dev/sda1                1014M  133M  882M  14% /boot
/dev/md0                   50G   52M   47G   1% /data
tmpfs                      98M     0   98M   0% /run/user/1000
```