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Add two new HDD in Raid 1



I just made a fresh install of Ubuntu 12.10 on a new SSD (`/dev/sda`). Now I would like to add two 1TB drives (`/dev/sdb` `/dev/sdc`) in RAID 1 but I'm pretty clueless on how to do it.

This is what I came up with (but didn't work):

First created partitions on the new drives:

```
sudo fdisk /dev/sdb
```

created primary partition and write table to disk

After that:

```
sudo mdadm --create --level=1 --name=raidarray --raid-devices=2 /dev/sdb /dev/sdc
```

However this outputs:

```
mdadm: device /dev/sdb exists but is not an md array.
```

Can somebody point me in the right direction on how to do this?

One bonus question: Would it be possible to reserve a part (same size of SSD) of one HDD and create a RAID 1 with the SSD and part of the HDD. And if so, how and can I keep my installation?

12.10 partitioning raid mdadm fdisk

edited Nov 14 '12 at 8:51



Evandro Silva

4,739 3 27 44

asked Nov 14 '12 at 8:42



Nin

201 3 8

2 Answers

The default command should look like this:

```
mdadm --create --verbose /dev/md0 --level=1 /dev/sda1 /dev/sdb2
```

You are not adding a complete disk, you should add a device (use `/dev/sdb1` (or2), not just `/dev/sdb`) as far as I know. The target name (`/dev/md0`) was also missing.

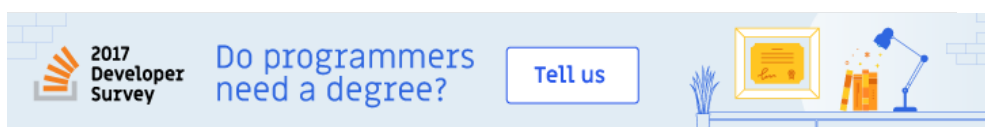
I always use this cheatsheet: <http://www.ducea.com/2009/03/08/mdadm-cheat-sheet/> :D

answered Nov 14 '12 at 8:54



Nanne

4,649 3 24 45



You have not specified the name of the resulting raid device. As such, mdadm is assuming that you're trying to create a RAID device at `/dev/sdb` and then failing because `/dev/sdb` already exists.

You should modify your command:

```
sudo mdadm --create --level=1 --name=raidarray /dev/md0 --raid-devices=2 /dev/sdb /dev/sdc
```

`/dev/md0` is the name of the new RAID device you're going to create.

answered Nov 14 '12 at 8:49



CadentOrange

213 1 2 10
