

Re: Upgrade raid0 to raid1

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- *From:* General Schvanzkoph <schvanzkoph@xxxxxxxxxx>
 - *Date:* 24 Nov 2007 01:47:20 GMT
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On Fri, 23 Nov 2007 16:36:37 -0800, Kedarius wrote:

On 23 Lis, 22:41, General Schvanzkoph <schvanzk...@xxxxxxxxxx> wrote:

On Fri, 23 Nov 2007 13:13:38 -0800, Kedarius wrote:

Hi,

I would like to ask, whether there are any possibilites how to upgrade running raid0 to raid1.

I have two 2GB flash drives running as raid0 and I would like to

change it to two 4GB flash drives running RAID1 without stopping the

array. Is this somewhat possible?

Radek

Plug in the other two drives, configure them as RAID1 and then copy the contents of the old drives to the new ones.

RAID0 and RAID1 perform two separate functions, RAID0, otherwise know as striping, increase your bandwidth. RAID1, otherwise known as mirroring, replicates the data on two drives to provide redundancy. If you have more that two drives then you can combine the two functions in a RAID5 array. However with just two drives your choices are 0 or 1 and they are not compatible. If you pull one drive on a RAID1 and replace it with another then you can rebuild the RAID set. If you pull one drive from a RAID0 you have nothing be cause the data is spread across both drives.

Just curious, why are you doing RAID with FLASH drives? FLASH drives are great for moving data around but I'm not sure I would want to use them as my main storage. FLASH drives have very slow write times, and they also have a limited number of write cycles. In cameras, phones and MP3 players this doesn't matter because they are fast enough and you do

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very few writes to any particular location. I'm assuming you are using them for some very low power application, but I would think that a single drive would be best for that.

I know that I can move data by copying files. And I think this will be the only one option but I was curious whether there is some possibility doing this without stopping the RAID. Some magic with raid upgrading (i.e. to raid10, etc :-)

We are using flash drives as / partitions for some of our servers. The data and /var partitions