Re: SVM: tearing down and putting back a RAID 5 on the same system?

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- *Date*: 18 Jun 2006 23:35:39 −0700

Hi,

I think the following may work....

(I have reinitialised a RAID 5 volume configuration once, without loosing any data)

I would:

1. Run a metastat −p and save the output.
2. Remove any metadb's on the 3 disks. Make sure you have metadb's on root disks.
3. Bring the system down with init 5.
4. Label the 3 disks with slot position.
5. Unplug the 3 disks.
6. Bring system up.
7. Remove the RAID5 volume (metaclear −r d<RAID5>)
8. Partition the new disks.
9. Create new metadb's and a new mirrored volume.

IF you need to restore the RAID5 volume.

1. Remove metadb's on new mirrored volume.
2. Bring system down.
3. Reinsert the 3 RAID5 disks.
4. Bring system up.
5. Run metainit with the −r −k switches and the 3 disks in EXACT same order.
e.g. metainit d<RAID5> −r disk1 disk2 disk3 −k
DO NOT FORGET −k OPTION!!!
6. Re−add the metadb's.

That should hopefully work...

Regards,
Daniel

Dan Stromberg wrote:

> Hi folks.
>
> I have a mail server that currently has its mail spool on 3 disks in a RAID 5 with one hot spare.
>
> We need to replace it with 2 larger disks in a mirror − not a root mirror, just a plain old mirror. It probably goes without saying that I want to minimize downtime on this server.
>
> To do this, I've been planning to tear down the RAID 5, remove those disks, and set up a mirror in the now−unoccupied drive bays. The tearing−down commands I had in mind are:
>
> metadb −f −d /dev/dsk/c0t8d0s7
> metadb −f −d /dev/dsk/c0t10d0s7
> metadb −f −d /dev/dsk/c0t12d0s7
> metaclear −f hsp001
> metaclear −f /dev/md/dsk/d6
>
> ...or perhaps just:
>
> metaclear −f −r /dev/md/dsk/d6
>
> My question is this: If for some reason the new root mirror doesn't work out, is there a way to set the unchanged four disks in the RAID 5 back up again, without losing the data that is on them? And are they truly "unchanged" if I run the commands above? "metaimport −r" seems to think they aren't importable on my test system, after running the metaclear −r above.
>
> Can disksets do this (tear down and put back without data loss)? And if so, is this a Solaris 10−only feature? I'm doing this on Solaris 8 10/01.
>
> Thanks!

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