Re: Replacing Shadowed Boot Drive

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From: Chris (*an.other_at_not_here.ca*)
Date: 04/29/05

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Date: Fri, 29 Apr 2005 11:27:32 −0400
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You're going to a lot more trouble than I have in past situations:
1. Shutdown system normally
2. Remove the secondary shadow (physical) unit
3. Replace with larger unit
4. Boot from CD−ROM
5. Mount the primary shadow unit with /OVER=SHADOW
6. Perform image backup of primary shadow unit to new, larger unit
7. Shutdown system
8. Remove old (small) unit from primary slot
9. Replace with new (larger) unit just copied to in 5. above
10. Leave secondary slot empty
11. Reboot per normal from the primary physical unit

(an Analyze/Disk/Repair ahead of any of this is assumed −− the AUTOGEN is purely your call as to whether you think the system needs tuning)

In my experience, at boot, the Shadow Server will read the location of the shadow unit from the primary (I think that's how it works), try to mount it, fail because it isn't there, and continue with nothing more than a warning. Once the system is up, put your 2nd new drive in the secondary slot, initialize it (to be cautious), then mount it into the boot shadowset. Depending on how full the drive is, an hour or so later, it'll be up to snuff. This has worked in at least 3 instances in the past.

CM
"Shawn" <shawnm1964@sbcglobal.net> wrote in message
news:1114781251.750555.105530@g14g2000cwa.googlegroups.com...
> *Hi All,*
> *>*
> *> I have a 1000A 5/400 Alpha Server running OpenVMS 7.2−1 which currently*
> *> utilizes Disk Shadowing on all the drives including the boot drives.*
> *>*
> *> The boot drive is made up of (2) 4.3GB shadowed disk drives. I am*
> *> going to replace both of these drives with (2) 9.1GB Disk Drives and*
> *> re−enable shadowing.*
> *>*
> *> I would like to list the steps I plan to follow and see if any of you*
> *> have any suggestions or corrections my plan. I have no extra drives to*

> *copy the data from the system drives too, so I have to use a DLT Tape*
> *Drive. The backup command I am going to use is backup and then restore*
> *is my main concern.*
>
> *1. Comment any scripts called from startup which mount any disks.*
> *2. Modify the modparams.dat file and set SHADOW_SYS_DISK to 0*
> *3. Run the following command autogen savparams setparams.*
> *4. Shutdown the application.*
> *5. Show device/files to ensure all files are closed.*
> *6. Run analyze/disk/repair to fix anything on the drive which could*
> *cause a problem.*
> *7. Dismount a member of the shadow set.*
> *8. Shutdown the system*
> *9. Boot from an OpenVMS 7.2−1 CD and enter DCL mode.*
> ****** These next steps I would appreciate your comments on*******
> *10. Mount one of the system drives: mount/over=id dkb0:*
> *11. Backup the drive to tape as an image: back/image/log/ign=label*
> *dkb0: mka500:dkb0.sav/save*
> *12. After the backup completes dismount the tape and disk drive: dism*
> *mka500: dism dkb0:*
> *13. Shutdown the server and replace the drives.*
> *14. Boot again off the CD Drive.*
> *15. Mount the new drive to be restored too. mount/for dkb0:*
> *16. Restore Data from tape: back/image/ign=label/verify*
> *mka500:dkb0.sav dkb0:*
> *17. After the restore has finished dismount tape and disk drives.*
> *18. Shutdown the system and then boot from dkb0:*
> *19. When server has come back up, modify startup scripts to mount*
> *drives as usual.*
> *20. Modify modparams.dat file and set SHADOW_SYS_DISK = 1*
> *21. Run the following command autogen savparams setparams.*
> *22. Reboot the server.*
> *23. After the server comes back up and all drives are mounted complete*
> *the final step of adding the 2nd drive to the shadow set.*
> *mount/system/noassist DSA0:/shadow=(1dkc0:) ALPHASYS*
>
> *Let me know if you see anything I need to change or modify*
>
> *Thanks in advance*
> *Shawn*
>