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Fatal Trap 12 on Freenas causes Restart when accessing Raid5

by [eyalnar](#) » Wed Nov 05, 2008 6:49 pm

NOTE: "Fatal trap 12" errors are usually caused by bad memory (RAM), the OP never made clear if or how the errors were fixed.

I'm running a Freenas server LiveCD v. 0.69b2 on a Gigabyte P35 GA-dsr3 motherboard, with an Intel E4200 cpu, 2 Gb ram, 8 X 1 TB Seagate ST31000340AS SATA disks, running on two 4 disk raid5 arrays. Upgraded to v. 0.69b4 to see if it helps, and nothing.

I started getting a "Fatal trap 12: page fault while in kernel mode" error and the Freenas server just restarted, every time I tried accessing the array2 it just failed. array1 on the other hand, worked with no problem, accessing and copying files with no problems. At the error message the process was "smbd" which I thought was the Samba, ofcourse, accessing from windows machine was the blame. Tried using FTP to transfer files, and the process was "FTP", same fatal trap and restart. Tried using Local RSync, and the server just restarted when starting the process.

The raid was always rebuilding itself, I even let it rebuild completely, before trying to access, because I though the rebuild process is the cause, and when trying to stop the rebuild every access to the raid made it start the rebuild again, something that might be good to be able to stop completely.

I tried running fsck on the raid array, but it just took a lot of time and at the end had a long list of "UNEXPECTED SOFT UPDATE INCONSISTENCY" lines, after phase 1, and than just done, with no other phases, which meant nothing was done.

I though all my DATA (2.4 TB) was lost.

Than I remembered that once I used a program to recover an NTFS partition gone bad, R-Studio it was. I know Freenas is using UFS, which I found R-Studio to recognize and have the ability to recover. R-Studio have the ability to create a virtual raid set, which enables to check for files on HDs even if you do not have the hardware raid controller or the software used to create the array. The only problem was that when I chose the 4 HDs in the correct order (It would be nice if the information on the Freenas raid would contain the serial of the HD so you know which HD is which).

After a 12 hours scan the scan revealed a lot of partitions found, with files sometimes, but in a messy order, and not all of the files, only a small fragment of them.

I than started thinking what should be different, the virtual raid had a block size and a blocks order options, from one of the Freenas logs I saw stripsize was 128kb for the raid, so I assumed that was the block size. I tried searching on the internet for the blocks order which

Freenas is using, but havn't found a thing, there is no mention of the order anywhere, not in the manuals, not on forums, as far as I've searched. I than tried again to find out what can be done, the blocks order has several options, luckily the one called "Right Asynchronous" was the correct one, I than could see the whole GPTPart0 partition, with all my files in the root.

I'm now in the middle of restoring everything to external HDs. I gather some files will be lost, but that's not that bad, as I've got a 2 months old backup. The only problem I have, is that I have hebrew file names, and those just get out messy on the restore, but at least there are not that many, so renaming them would not be that bad. (That's another issue, but I've asked several times why isn't there Codepage 862 in Freenas to support hebrew (non-unicode) characters, and got no response).

After that I'll probably rebuild the array and copy back the files with better backup strategy.

I do not know however, why this has happened, and why was the Freenas server restarting every time with this Fatal Trap 12 message. No error reported in the logs which should have warned me this is going to happen, and as far as I see it, the hardware is quite fine. Well, hope this can help someone in the future.

Re: Fatal Trap 12 on Freenas causes Restart when accessing Raid5

by [arj_x](#) » Sun Mar 01, 2009 2:58 pm

Hi Eyalnar,

I would like to say that with your indication I have restore all my precious data lost (~600Go) with freenas 0.69RC2 and a RAID5 of 4*1TB.

I have make this possible with the parameters that you describe in your post (128kb, right asynchronous) with R-Studio.

Thank you verry much because this information are only here, for me too I never know what was happened on my server but now I have uninstall freenas and return to windows server2008 software raid5. I'm scared about the UFS and the fsck doesn't help me to find a way to recover the data so... perhap's another time!

thanks and god bless. - arj_x