Subject: weird filesystem corruption issues
Posted by Aleksandar Ivanisevic on Tue, 09 Oct 2012 12:34:43 GMT
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Hi,

please help me debug this weird issue. This has been happening
occasionally in my setup for literally years, on at least 10 different
OVZ kernels.

in VE:

md5sum /tmp/application.log.backup
89024ce67704e3cf2aa9e7b2e2584a60 /tmp/application.log.backup

gzip > application.log.backup.gz < /tmp/application.log.backup
zcat application.log.backup.gz | md5sum

zcat: application.log.backup.gz: unexpected end of file
986389b791ee94692da36a56be29392a -

but the next attempt 10 seconds later:

gzip > application.log.backup.gz < /tmp/application.log.backup
/var/log zcat application.log.backup.gz | md5sum
89024ce67704e3cf2aa9e7b2e2584a60 -

the file is truncated at the random place.

I can reliably reproduce this by running this in a loop:

root@ /var/log while true; do gzip > application.log.backup.gz < /tmp/application.log.backup ; zcat
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But when I run it from the HN, there is never any issue

while true; do gzip > application.log.backup.gz < /vz/private/1090/tmp/application.log.backup ; zcat application.log.backup.gz | md5sum; done
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Subject: Re: weird filesystem corruption issues
Posted by Kirill Korotaev on Tue, 09 Oct 2012 13:53:33 GMT
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can you provide access and demonstrate this on the real node?
The only guess I have is that some application changes your files in /tmp or you have memory corruptions, so memtest86 is recommended to run anyway.

Thanks,
Kirill

On Oct 9, 2012, at 16:34 , Aleksandar Ivanisevic <aleksandar@ivanisevic.de> wrote:

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Subject: Re: weird filesystem corruption issues
Posted by Aleksandar Ivanisevic on Wed, 10 Oct 2012 09:06:00 GMT
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Kirill Korotaev <dev@parallels.com> writes:

Hi,

I might be able to provide access if you wish. Here are some more facts:

Once i reboot the VE the issue goes away for a few days, then it happens again. The issue with gzip is just one manifestation, other symptoms include files appearing corrupted that are fine again after the reboot (something with the disk cache perhaps?), weird segfaults and bus errors for various scripts and apps and similar things. We also used to have weird mysql crashes (datafile checksum corruption) in another VE running on the same HN that always stopped once we migrated away, but this has stopped happening in the last few kernels.

Only this one VE exhibits this behaviour, out of 50 others running on 18 HNs with more or less identical hardware.

VE is migrated regularly to other nodes (both offline and online) during maintenance and it has this problem on all HNs it has been running on.

Nodes are IBM xSeries servers with ECC memory, so I don't think its a physical memory issue.

VE is running Nagios/cfengine/syslogd server, it is fairly loaded, but it is not the most loaded VE in our environment.

most of the limits are set to the max, failcnts are always zero.

Any pointers in where should I look are appreciated.

regards,

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> Thanks,
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>>
>>
>>
--
Ti si arogantan, prepotentan i peglaš vlastitu frustraciju. -- Ivan Tišljar, hr.comp.os.linux