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Subject: OpenVZ, Open ISCSI & OpenSolaris

Posted by [Mart van Santen](#) on Wed, 23 Jan 2008 15:11:14 GMT

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Hello,

On one of our servers we are running OpenVZ for some time without any problems. But yesterday I started a virtual machine based on a iscsi-target, this target is running on opensolaris. After a few hours without problems, the system totally collapsed by the cause of some ip-conflicts. The machine running openvz was claiming IP-adres space, or sending ip-frames with the same source ip as the storage server, and because of this, the storage system disabled the network interfaces now and then. I don't think this is caused by a bug in openvz, but because we are running openiscsi in combination with opensolaris for some time, i just want to know if it is possible that openvz interacts with the storage/openiscsi layer and some error can raise because of that.

The details:

iscsi-target machine:

intel 64-bit OpenSolaris/SunOS 5.10

Target is on a zfs volume

open-iscsi:

version: 2.0-868-test1

This version because i had some other problems with previous versions

openVZ machine:

kernel: 2.6.18-1-openvz

patch: 028.18

platform: intel 64-bit

os: debian etch

extra sysctl.conf settings on openvz machine:

net.ipv4.tcp\_max\_tw\_kmem\_fraction=384

net.ipv4.tcp\_max\_tw\_buckets\_ub=16536

The problems:

During the night suddenly ping to our storage server dropped several times. This is caused by sunos, because it discovers that an other machine is using the same ip, and than disables the network interface for some time and after some timeout then tries to recover the IP/interface. The mac-addresses in the SunOS log matches with the hardware addresses of the openvz machine.

On the OpenVZ machine:

Around the same time, the errors at the bottom of this email occurred. If the timing of all logfiles is correct, it looks like that these errors occurred first, and then the problems with the IP's occurred. I wonder if this has to do anything with the interface stack of openvz conflicting with the lowlevel access of the interface by open-iscsi. Maybe the IP-stack mirrored packets from the solaris machine or something like that. On the machine without openvz but nearly the same kernel and the same iscsi stack we didn't had any of these problems.

I hope anyone has a good hint. Are other people using iscsi targets for storage and is this done on the same interface as the external network etc. Are there any ip/tcp system settings where I have to take care of...

Kind regards,

Mart van Santen

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Jan 23 08:31:28 krypton kernel: iscsi: cmd 0x2a is not queued (7)

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Jan 23 08:31:38 krypton kernel: end\_request: I/O error, dev sdb, sector 5032176  
Jan 23 08:31:38 krypton kernel: sd 1:0:0:0: SCSI error: return code = 0x00010000  
Jan 23 08:31:38 krypton kernel: Buffer I/O error on device sdb1, logical block 629018  
Jan 23 08:31:38 krypton kernel: lost page write due to I/O error on sdb1  
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Jan 23 08:32:09 krypton kernel: end\_request: I/O error, dev sdb, sector 4836888  
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Jan 23 08:32:41 krypton kernel: end\_request: I/O error, dev sdb, sector 23605192  
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Jan 23 08:32:41 krypton kernel: end\_request: I/O error, dev sdb, sector 34091344  
Jan 23 08:32:41 krypton kernel: sd 1:0:0:0: SCSI error: return code = 0x00010000  
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Jan 23 08:32:41 krypton kernel: end\_request: I/O error, dev sdb, sector 23592920  
Jan 23 08:32:41 krypton kernel: I/O error in filesystem ("sdb1")  
meta-data dev sdb1 block 0x167ffb9 ("xfs\_trans\_read\_buf") error 5  
buf count 512  
Jan 23 08:32:41 krypton kernel: xfs\_force\_shutdown(sdb1,0x1) called from line 4267 of file fs/xfs/xfs\_bmap.c. Return address = 0xffffffff881ad44f  
Jan 23 08:32:41 krypton kernel: iscsi: cmd 0x2a is not queued (7)  
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Jan 23 08:32:41 krypton kernel: end\_request: I/O error, dev sdb, sector 20978289  
Jan 23 08:32:41 krypton kernel: I/O error in filesystem ("sdb1")  
meta-data dev sdb1 block 0x1401a51 ("xlog\_iodone") error 5  
buf count 1024  
Jan 23 08:32:41 krypton kernel: xfs\_force\_shutdown(sdb1,0x2) called from line 956 of file fs/xfs/xfs\_log.c. Return address = 0xffffffff881d09d1

Jan 23 08:32:41 krypton kernel: Filesystem "sdb1": Log I/O Error  
Detected. Shutting down filesystem: sdb1

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Subject: Re: OpenVZ, Open iSCSI & OpenSolaris  
Posted by [dev](#) on Wed, 23 Jan 2008 16:11:56 GMT  
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Mart,

1. OpenVZ doesn't interfere with storage and we run locally some services using RHEL5(2.6.18) + iscsi internally w/o any problems.
2. If I'm correct, you are using too way old OVZ kernel. plz update.
3. have you used iSCSI packages from Debian etch or compiled/installed anything yourself?

Kirill

Mart van Santen wrote:

> Hello,  
>  
> On one of our servers we are running OpenVZ for some time without any  
> problems. But yesterday I started a virtual machine based on a  
> iscsi-target, this target is running on opensolaris. After a few hours  
> without problems, the system totally collapsed by the cause of some  
> ip-conflicts. The machine running openvz was claiming IP-adres space, or  
> sending ip-frames with the same source ip as the storage server, and  
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> and then. I don't think this is caused by a bug in openvz, but because  
> we are running openiscsi in combination with opensolaris for some time,  
> i just want to know if it is possible that openvz interacts with the



> storage/openiscsi layer and some error can raise because of that.  
>  
> The details:  
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> iscsi-target machine:  
> intel 64-bit OpenSolaris/SunOS 5.10  
> Target is on a zfs volume  
>  
> open-iscsi:  
> version: 2.0-868-test1  
> This version because i had some other problems with previous versions  
>  
> openVZ machine:  
>  
> kernel: 2.6.18-1-openvz  
> patch: 028.18  
> platform: intel 64-bit  
> os: debian etch  
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> extra sysctl.conf settings on openvz machine:  
> net.ipv4.tcp\_max\_tw\_kmem\_fraction=384  
> net.ipv4.tcp\_max\_tw\_buckets\_ub=16536  
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> The problems:  
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> During the night suddenly ping to our storage server dropped several  
> times. This is caused by sunos, because it discovers that an other  
> machine is using the same ip, and than disables the network interface  
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> On the OpenVZ machine:  
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> Around the same time, the errors at the bottom of this email occurred.  
> If the timing of all logfiles is correct, it looks like that these  
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> conflicting with the lowlevel access of the interface by open-iscsi.  
> Maybe the IP-stack mirrored packets from the solaris machine or  
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> storage and is this done on the same interface as the external network  
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>  
> Kind regards,  
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> Mart van Santen  
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> Jan 23 08:30:42 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 36712096  
> Jan 23 08:30:42 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:30:42 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 38917752  
> Jan 23 08:30:42 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:30:42 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 3543176  
> Jan 23 08:30:42 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:30:42 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 37901744  
> Jan 23 08:30:42 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:30:42 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 38918136  
> Jan 23 08:30:42 krypton kernel: Buffer I/O error on device sdb1, logical  
> block 4864715  
> Jan 23 08:30:42 krypton kernel: lost page write due to I/O error on sdb1  
> Jan 23 08:30:42 krypton kernel: Buffer I/O error on device sdb1, logical  
> block 4864763  
> Jan 23 08:30:42 krypton kernel: lost page write due to I/O error on sdb1  
> Jan 23 08:31:18 krypton kernel: iscsi: cmd 0x2a is not queued (7)  
> Jan 23 08:31:18 krypton kernel: iscsi: cmd 0x2a is not queued (7)

> Jan 23 08:31:18 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:31:18 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 37901744  
> Jan 23 08:31:18 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:31:18 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 38918136  
> Jan 23 08:31:18 krypton kernel: Buffer I/O error on device sdb1, logical  
> block 4864763  
> Jan 23 08:31:18 krypton kernel: lost page write due to I/O error on sdb1  
> Jan 23 08:31:20 krypton kernel: iscsi: cmd 0x28 is not queued (7)  
> Jan 23 08:31:20 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:31:20 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 4701032  
> Jan 23 08:31:20 krypton kernel: iscsi: cmd 0x28 is not queued (7)  
> Jan 23 08:31:20 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:31:20 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 4701032  
> Jan 23 08:31:20 krypton kernel: iscsi: cmd 0x28 is not queued (7)  
> Jan 23 08:31:20 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:31:20 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 4979496  
> Jan 23 08:31:20 krypton kernel: iscsi: cmd 0x28 is not queued (7)  
> Jan 23 08:31:20 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:31:20 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 4979496  
> Jan 23 08:31:28 krypton kernel: iscsi: cmd 0x2a is not queued (7)  
> Jan 23 08:31:28 krypton kernel: iscsi: cmd 0x2a is not queued (7)  
> Jan 23 08:31:28 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:31:28 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 36712096  
> Jan 23 08:31:28 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:31:28 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 38917752  
> Jan 23 08:31:28 krypton kernel: Buffer I/O error on device sdb1, logical  
> block 4864715  
> Jan 23 08:31:28 krypton kernel: lost page write due to I/O error on sdb1  
> Jan 23 08:31:38 krypton kernel: iscsi: cmd 0x2a is not queued (7)  
> Jan 23 08:31:38 krypton kernel: iscsi: cmd 0x2a is not queued (7)  
> Jan 23 08:31:38 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000

> Jan 23 08:31:38 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 5032176  
> Jan 23 08:31:38 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:31:38 krypton kernel: Buffer I/O error on device sdb1, logical  
> block 629018  
> Jan 23 08:31:38 krypton kernel: lost page write due to I/O error on sdb1  
> Jan 23 08:31:38 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 3543176  
> Jan 23 08:31:53 krypton kernel: iscsi: cmd 0x2a is not queued (7)  
> Jan 23 08:31:53 krypton kernel: iscsi: cmd 0x2a is not queued (7)  
> Jan 23 08:31:53 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:31:53 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 37901744  
> Jan 23 08:31:53 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:31:53 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 38918136  
> Jan 23 08:31:53 krypton kernel: Buffer I/O error on device sdb1, logical  
> block 4864763  
> Jan 23 08:31:53 krypton kernel: lost page write due to I/O error on sdb1  
> Jan 23 08:32:08 krypton kernel: iscsi: cmd 0x2a is not queued (7)  
> Jan 23 08:32:08 krypton kernel: iscsi: cmd 0x2a is not queued (7)  
> Jan 23 08:32:08 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:32:08 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 38917752  
> Jan 23 08:32:08 krypton kernel: Buffer I/O error on device sdb1, logical  
> block 4864715  
> Jan 23 08:32:08 krypton kernel: lost page write due to I/O error on sdb1  
> Jan 23 08:32:08 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:32:08 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 36712096  
> Jan 23 08:32:09 krypton kernel: iscsi: cmd 0x28 is not queued (7)  
> Jan 23 08:32:09 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:32:09 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 4836888  
> Jan 23 08:32:09 krypton kernel: iscsi: cmd 0x28 is not queued (7)  
> Jan 23 08:32:09 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:32:09 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 4836888  
> Jan 23 08:32:41 krypton kernel: iscsi: cmd 0x28 is not queued (7)  
> Jan 23 08:32:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000

> Jan 23 08:32:41 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 4702944  
> Jan 23 08:32:41 krypton kernel: iscsi: cmd 0x28 is not queued (7)  
> Jan 23 08:32:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:32:41 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 4702944  
> Jan 23 08:32:41 krypton kernel: iscsi: cmd 0x28 is not queued (7)  
> Jan 23 08:32:41 krypton kernel: iscsi: cmd 0x28 is not queued (7)  
> Jan 23 08:32:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:32:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:32:41 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 21082064  
> Jan 23 08:32:41 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 23605192  
> Jan 23 08:32:41 krypton kernel: iscsi: cmd 0x28 is not queued (7)  
> Jan 23 08:32:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:32:41 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 21082064  
> Jan 23 08:32:41 krypton kernel: iscsi: cmd 0x28 is not queued (7)  
> Jan 23 08:32:41 krypton kernel: iscsi: cmd 0x28 is not queued (7)  
> Jan 23 08:32:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:32:41 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 23605192  
> Jan 23 08:32:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:32:41 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 21082064  
> Jan 23 08:32:41 krypton kernel: iscsi: cmd 0x28 is not queued (7)  
> Jan 23 08:32:41 krypton last message repeated 3 times  
> Jan 23 08:32:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:32:41 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 34091344  
> Jan 23 08:32:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:32:41 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 34091448  
> Jan 23 08:32:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000  
> Jan 23 08:32:41 krypton kernel: end\_request: I/O error, dev sdb, sector  
> 34091496  
> Jan 23 08:32:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =  
> 0x00010000

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> Jan 23 08:32:41 krypton kernel: end_request: I/O error, dev sdb, sector
> 34091528
> Jan 23 08:32:41 krypton kernel: iscsi: cmd 0x28 is not queued (7)
> Jan 23 08:32:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =
> 0x00010000
> Jan 23 08:32:41 krypton kernel: end_request: I/O error, dev sdb, sector
> 34091448
> Jan 23 08:32:41 krypton kernel: iscsi: cmd 0x28 is not queued (7)
> Jan 23 08:32:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =
> 0x00010000
> Jan 23 08:32:41 krypton kernel: end_request: I/O error, dev sdb, sector
> 34091448
> Jan 23 08:32:41 krypton kernel: iscsi: cmd 0x28 is not queued (7)
> Jan 23 08:32:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =
> 0x00010000
> Jan 23 08:32:41 krypton kernel: end_request: I/O error, dev sdb, sector
> 23592920
> Jan 23 08:32:41 krypton kernel: I/O error in filesystem ("sdb1")
> meta-data dev sdb1 block 0x167ffb9 ("xfs_trans_read_buf") error 5
> buf count 512
> Jan 23 08:32:41 krypton kernel: xfs_force_shutdown(sdb1,0x1) called from
> line 4267 of file fs/xfs/xfs_bmap.c. Return address = 0xffffffff881ad44f
> Jan 23 08:32:41 krypton kernel: iscsi: cmd 0x2a is not queued (7)
> Jan 23 08:32:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =
> 0x00010000
> Jan 23 08:32:41 krypton kernel: end_request: I/O error, dev sdb, sector
> 20978289
> Jan 23 08:32:41 krypton kernel: I/O error in filesystem ("sdb1")
> meta-data dev sdb1 block 0x1401a51 ("xlog_iodone") error 5 buf
> count 1024
> Jan 23 08:32:41 krypton kernel: xfs_force_shutdown(sdb1,0x2) called from
> line 956 of file fs/xfs/xfs_log.c. Return address = 0xffffffff881d09d1
> Jan 23 08:32:41 krypton kernel: Filesystem "sdb1": Log I/O Error
> Detected. Shutting down filesystem: sdb1
>
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