
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 08:30:41 krypton kernel: session0: iscsi: session recovery timed
out after 120 secs
Jan 23 08:30:41 krypton kernel: iscsi: cmd 0x28 is not queued (7)
Jan 23 08:30:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =
0x00010000
Jan 23 08:30:41 krypton kernel: end_request: I/O error, dev sdb, sector
4969152
Jan 23 08:30:41 krypton kernel: iscsi: cmd 0x28 is not queued (7)
Jan 23 08:30:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =
0x00010000
Jan 23 08:30:41 krypton kernel: end_request: I/O error, dev sdb, sector
4969152
Jan 23 08:30:41 krypton kernel: iscsi: cmd 0x2a is not queued (7)
Jan 23 08:30:41 krypton last message repeated 6 times
Jan 23 08:30:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =
0x00010000
Jan 23 08:30:41 krypton kernel: end_request: I/O error, dev sdb, sector
37901744
Jan 23 08:30:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =
0x00010000
Jan 23 08:30:41 krypton kernel: end_request: I/O error, dev sdb, sector
38917752
Jan 23 08:30:41 krypton kernel: sd 1:0:0:0: SCSI error: return code =
0x00010000
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Jan 23 08:30:41 krypton kernel: end_request: I/O error, dev sdb, sector 38918128
Jan 23 08:30:41 krypton kernel: sd 1:0:0:0: SCSI error: return code = 0x00010000
Jan 23 08:30:41 krypton kernel: end_request: I/O error, dev sdb, sector 3543176
Jan 23 08:30:41 krypton kernel: sd 1:0:0:0: SCSI error: return code = 0x00010000
Jan 23 08:30:41 krypton kernel: printk: 18 messages suppressed.
Jan 23 08:30:41 krypton kernel: Buffer I/O error on device sdb1, logical block 4864715
Jan 23 08:30:41 krypton kernel: lost page write due to I/O error on sdb1
Jan 23 08:30:41 krypton kernel: Buffer I/O error on device sdb1, logical block 4864762
Jan 23 08:30:41 krypton kernel: lost page write due to I/O error on sdb1
Jan 23 08:30:41 krypton kernel: end_request: I/O error, dev sdb, sector 36712096
Jan 23 08:30:41 krypton kernel: sd 1:0:0:0: SCSI error: return code = 0x00010000
Jan 23 08:30:41 krypton kernel: end_request: I/O error, dev sdb, sector 4676184
Jan 23 08:30:41 krypton kernel: sd 1:0:0:0: SCSI error: return code = 0x00010000
Jan 23 08:30:41 krypton kernel: end_request: I/O error, dev sdb, sector 4676432
Jan 23 08:30:41 krypton kernel: Buffer I/O error on device sdb1, logical block 584519
Jan 23 08:30:41 krypton kernel: lost page write due to I/O error on sdb1
Jan 23 08:30:41 krypton kernel: Buffer I/O error on device sdb1, logical block 584550
Jan 23 08:30:41 krypton kernel: lost page write due to I/O error on sdb1
Jan 23 08:30:41 krypton kernel: I/O error in filesystem ("sdb1")
meta-data dev sdb1 block 0x2302e80 ("xfs_trans_read_buf") error 5
buf count 8192
Jan 23 08:30:42 krypton kernel: iscsi: cmd 0x2a is not queued (7)
Jan 23 08:30:42 krypton last message repeated 4 times
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 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
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
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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