
Subject: Server Crash, seemingly related to VZQUOTA

Posted by [bjdea1](#) on Mon, 10 Oct 2011 01:08:38 GMT

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Hi,

we have a server that seems to be sensitive to vzquotas. I'm not sure if there is a drive issue, or controller issue (Perc 6/i) or whether its the vzquota software but it seems the instability we've been experiencing on our servers could be related to vzquota. When we turn quotas off the server seems more stable. Here are some examples of what we're seeing in our logs:

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Oct 10 04:07:25 aunode1 kernel: [ 142.920608] CT: 7018: started
Oct 10 04:07:35 aunode1 kernel: [ 153.316174] VZDQ: detached inode not in creation, orig {2, 5},
dev dm-1, inode 9579670, fs ext4
Oct 10 04:07:35 aunode1 kernel: [ 153.316178] i_count 1,
Oct 10 04:07:35 aunode1 kernel: [ 153.316180] i_mode 100644,
Oct 10 04:07:35 aunode1 kernel: [ 153.316181] i_state 100,
Oct 10 04:07:35 aunode1 kernel: [ 153.316182] i_flags 0
Oct 10 04:07:35 aunode1 kernel: [ 153.316185] i_op ffffffff025c280, vfs_empty_iops
ffff8823c4780, i_fop ffffffff025c1a0, i_mapping ffff8803b37edb40
Oct 10 04:07:35 aunode1 kernel: [ 153.316188] current 3016 (flush-253:1), VE 0, time 10.437260
Oct 10 04:07:35 aunode1 kernel: [ 153.316192] Pid: 3016, comm: flush-253:1 Not tainted
2.6.32-042stab039.2 #1
Oct 10 04:07:35 aunode1 kernel: [ 153.316194] Call Trace:
Oct 10 04:07:35 aunode1 kernel: [ 153.316206] [<ffffffa04fe999>] ?
vzquota_inode_qmbblk_recalc+0x499/0x4d0 [vzdquota]
Oct 10 04:07:35 aunode1 kernel: [ 153.316220] [<ffffffa04fece2>] ?
vzquota_inode_data+0x82/0x100 [vzdquota]
Oct 10 04:07:35 aunode1 kernel: [ 153.316225] [<ffffffa0501933>] ?
vzquota_claim_reserved_space+0x33/0x180 [vzdquota]
Oct 10 04:07:35 aunode1 kernel: [ 153.316240] [<ffffffa0228002>] ?
ext4_da_update_reserve_space+0x1d2/0x230 [ext4]
Oct 10 04:07:35 aunode1 kernel: [ 153.316252] [<ffffffa024c3f8>] ?
ext4_ext_get_blocks+0x1248/0x19c0 [ext4]
Oct 10 04:07:35 aunode1 kernel: [ 153.316259] [<ffff88104f7c3>] ? __wake_up+0x53/0x70
Oct 10 04:07:35 aunode1 kernel: [ 153.316268] [<ffffffa0229d75>] ?
ext4_get_blocks+0xf5/0x2a0 [ext4]
Oct 10 04:07:35 aunode1 kernel: [ 153.316272] [<ffff881133c75>] ?
pagevec_lookup_tag+0x25/0x40
Oct 10 04:07:35 aunode1 kernel: [ 153.316281] [<ffffffa022ae8c>] ?
mpage_da_map_blocks+0xac/0x450 [ext4]
Oct 10 04:07:35 aunode1 kernel: [ 153.316289] [<ffffffa01f6a0e>] ?
jbd2_journal_stop+0x1fe/0x2e0 [jbd2]
Oct 10 04:07:35 aunode1 kernel: [ 153.316295] [<ffffffa01f7415>] ?
jbd2_journal_start+0xb5/0x100 [jbd2]
Oct 10 04:07:35 aunode1 kernel: [ 153.316303] [<ffffffa022bac7>] ?
ext4_da_writepages+0x2f7/0x660 [ext4]
Oct 10 04:07:35 aunode1 kernel: [ 153.316308] [<ffff881132ce1>] ? do_writepages+0x21/0x40
Oct 10 04:07:35 aunode1 kernel: [ 153.316313] [<ffff8811af09d>] ?
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__writeback_single_inode+0xdd/0x2c0
Oct 10 04:07:35 aunode1 kernel: [ 153.316316] [<ffffff811af303>] ?
writeback_single_inode+0x83/0xc0
Oct 10 04:07:35 aunode1 kernel: [ 153.316320] [<ffffff8119ea10>] ? iput+0x30/0x70
Oct 10 04:07:35 aunode1 kernel: [ 153.316323] [<ffffff811af576>] ?
writeback_sb_inodes+0xe6/0x1a0
Oct 10 04:07:35 aunode1 kernel: [ 153.316326] [<ffffff811af6db>] ?
writeback_inodes_wb+0xab/0x1b0
Oct 10 04:07:35 aunode1 kernel: [ 153.316329] [<ffffff811afa8b>] ? wb_writeback+0x2ab/0x400
Oct 10 04:07:35 aunode1 kernel: [ 153.316334] [<ffffff814c407a>] ? thread_return+0x4e/0x854
Oct 10 04:07:35 aunode1 kernel: [ 153.316337] [<ffffff811afd89>] ?
wb_do_writeback+0x1a9/0x250
Oct 10 04:07:35 aunode1 kernel: [ 153.316342] [<ffffff8107c860>] ? process_timeout+0x0/0x10
Oct 10 04:07:35 aunode1 kernel: [ 153.316346] [<ffffff811afe93>] ?
bdi_writeback_task+0x63/0x1b0
Oct 10 04:07:35 aunode1 kernel: [ 153.316350] [<ffffff81092557>] ? bit_waitqueue+0x17/0xc0
Oct 10 04:07:35 aunode1 kernel: [ 153.316355] [<ffffff81144950>] ? bdi_start_fn+0x0/0x100
Oct 10 04:07:35 aunode1 kernel: [ 153.316358] [<ffffff811449d6>] ? bdi_start_fn+0x86/0x100
Oct 10 04:07:35 aunode1 kernel: [ 153.316361] [<ffffff81144950>] ? bdi_start_fn+0x0/0x100
Oct 10 04:07:35 aunode1 kernel: [ 153.316364] [<ffffff810920a6>] ? kthread+0x96/0xa0
Oct 10 04:07:35 aunode1 kernel: [ 153.316368] [<ffffff8100c2ca>] ? child_rip+0xa/0x20
Oct 10 04:07:35 aunode1 kernel: [ 153.316371] [<ffffff81092010>] ? kthread+0x0/0xa0
Oct 10 04:07:35 aunode1 kernel: [ 153.316374] [<ffffff8100c2c0>] ? child_rip+0x0/0x20
Oct 10 04:07:44 aunode1 kernel: [ 162.188540] VZDQ: detached inode not in creation, orig {2, 5},
dev dm-1, inode 9579700, fs ext4
Oct 10 04:07:44 aunode1 kernel: [ 162.188544] i_count 1,
Oct 10 04:07:44 aunode1 kernel: [ 162.188546] i_mode 100644,
Oct 10 04:07:44 aunode1 kernel: [ 162.188547] i_state 100,
Oct 10 04:07:44 aunode1 kernel: [ 162.188548] i_flags 0
Oct 10 04:07:44 aunode1 kernel: [ 162.188551] i_op ffffffffa025c280, vfs_empty_iops
ffffff823c4780, i_fop ffffffffa025c1a0, i_mapping ffff8803ad471d00
Oct 10 04:07:44 aunode1 kernel: [ 162.188555] current 3016 (flush-253:1), VE 0, time 19.309626
Oct 10 04:07:44 aunode1 kernel: [ 162.188558] Pid: 3016, comm: flush-253:1 Not tainted
2.6.32-042stab039.2 #1
Oct 10 04:07:44 aunode1 kernel: [ 162.188560] Call Trace:
Oct 10 04:07:44 aunode1 kernel: [ 162.188571] [<fffffffa04fe999>] ?
vzquota_inode_qmbulk_recalc+0x499/0x4d0 [vzdquota]
Oct 10 04:07:44 aunode1 kernel: [ 162.188585] [<fffffffa04fece2>] ?
vzquota_inode_data+0x82/0x100 [vzdquota]
Oct 10 04:07:44 aunode1 kernel: [ 162.188589] [<fffffffa0501933>] ?
vzquota_claim_reserved_space+0x33/0x180 [vzdquota]
Oct 10 04:07:44 aunode1 kernel: [ 162.188603] [<fffffffa0228002>] ?
ext4_da_update_reserve_space+0x1d2/0x230 [ext4]
Oct 10 04:07:44 aunode1 kernel: [ 162.188615] [<fffffffa024c3f8>] ?
ext4_ext_get_blocks+0x1248/0x19c0 [ext4]
Oct 10 04:07:44 aunode1 kernel: [ 162.188622] [<ffffff81239945>] ? submit_bio+0xf5/0x1a0
Oct 10 04:07:44 aunode1 kernel: [ 162.188627] [<ffffff811bbb5b>] ? bio_alloc_bioset+0x5b/0xf0
Oct 10 04:07:44 aunode1 kernel: [ 162.188636] [<fffffffa0229d75>] ?

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ext4_get_blocks+0xf5/0x2a0 [ext4]
Oct 10 04:07:44 aunode1 kernel: [ 162.188640] [<ffffff81133c75>] ?
pagevec_lookup_tag+0x25/0x40
Oct 10 04:07:44 aunode1 kernel: [ 162.188648] [<fffffffa022ae8c>] ?
mpage_da_map_blocks+0xac/0x450 [ext4]
Oct 10 04:07:44 aunode1 kernel: [ 162.188657] [<fffffffa01f6a0e>] ?
jbd2_journal_stop+0x1fe/0x2e0 [jbd2]
Oct 10 04:07:44 aunode1 kernel: [ 162.188663] [<fffffffa01f7415>] ?
jbd2_journal_start+0xb5/0x100 [jbd2]
Oct 10 04:07:44 aunode1 kernel: [ 162.188671] [<fffffffa022bac7>] ?
ext4_da_writepages+0x2f7/0x660 [ext4]
Oct 10 04:07:44 aunode1 kernel: [ 162.188677] [<ffffff81132ce1>] ? do_writepages+0x21/0x40
Oct 10 04:07:44 aunode1 kernel: [ 162.188681] [<ffffff811af09d>] ?
__writeback_single_inode+0xdd/0x2c0
Oct 10 04:07:44 aunode1 kernel: [ 162.188684] [<ffffff811af303>] ?
writeback_single_inode+0x83/0xc0
Oct 10 04:07:44 aunode1 kernel: [ 162.188688] [<ffffff8119ea10>] ? iput+0x30/0x70
Oct 10 04:07:44 aunode1 kernel: [ 162.188691] [<ffffff811af576>] ?
writeback_sb_inodes+0xe6/0x1a0
Oct 10 04:07:44 aunode1 kernel: [ 162.188695] [<ffffff811af6db>] ?
writeback_inodes_wb+0xab/0x1b0
Oct 10 04:07:44 aunode1 kernel: [ 162.188698] [<ffffff811afa8b>] ? wb_writeback+0x2ab/0x400
Oct 10 04:07:44 aunode1 kernel: [ 162.188703] [<ffffff814c407a>] ? thread_return+0x4e/0x854
Oct 10 04:07:44 aunode1 kernel: [ 162.188706] [<ffffff811afd89>] ?
wb_do_writeback+0x1a9/0x250
Oct 10 04:07:44 aunode1 kernel: [ 162.188711] [<ffffff8107c860>] ? process_timeout+0x0/0x10
Oct 10 04:07:44 aunode1 kernel: [ 162.188714] [<ffffff811afe93>] ?
bdi_writeback_task+0x63/0x1b0
Oct 10 04:07:44 aunode1 kernel: [ 162.188719] [<ffffff81092557>] ? bit_waitqueue+0x17/0xc0
Oct 10 04:07:44 aunode1 kernel: [ 162.188723] [<ffffff81144950>] ? bdi_start_fn+0x0/0x100
Oct 10 04:07:44 aunode1 kernel: [ 162.188726] [<ffffff811449d6>] ? bdi_start_fn+0x86/0x100
Oct 10 04:07:44 aunode1 kernel: [ 162.188729] [<ffffff81144950>] ? bdi_start_fn+0x0/0x100
Oct 10 04:07:44 aunode1 kernel: [ 162.188732] [<ffffff810920a6>] ? kthread+0x96/0xa0
Oct 10 04:07:44 aunode1 kernel: [ 162.188736] [<ffffff8100c2ca>] ? child_rip+0xa/0x20
Oct 10 04:07:44 aunode1 kernel: [ 162.188739] [<ffffff81092010>] ? kthread+0x0/0xa0
Oct 10 04:07:44 aunode1 kernel: [ 162.188742] [<ffffff8100c2c0>] ? child_rip+0x0/0x20

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The log goes on and on, many similar such entries repeated.

Anyone seen this before, know of a fix? Thanks