
Subject: /usr/sbin/httpd: page allocation failure?

Posted by [HHawk](#) on Wed, 23 Feb 2022 08:15:08 GMT

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Hi all,

I noticed, on almost all nodes with OpenVZ 7 with kernel: Linux servername

3.10.0-1160.42.2.vz7.184.10 #1 SMP Fri Dec 31 04:05:16 MSK 2021 x86_64 x86_64 x86_64
GNU/Linux

The following (kind) of error: /usr/sbin/httpd: page allocation failure: order:5, mode:0x2040d0

```
[ +0.000170] /usr/sbin/httpd: page allocation failure: order:5, mode:0x2040d0
[ +0.000003] CPU: 2 PID: 63709 Comm: /usr/sbin/httpd ve: 10744 Kdump: loaded Not tainted
3.10.0-1160.42.2.vz7.184.10 #1 184.10
[ +0.000002] Hardware name: Dell Inc. PowerEdge R300/0TY179, BIOS 1.5.2 11/02/2010
[ +0.000002] Call Trace:
[ +0.000004] [<ffffffff831c04ce>] dump_stack+0x19/0x1b
[ +0.000002] [<ffffffff82bdd970>] warn_alloc_failed+0x110/0x170
[ +0.000003] [<ffffffff831bb8b8>] __alloc_pages_slowpath+0x684/0x799
[ +0.000004] [<ffffffff82be23af>] __alloc_pages_nodemask+0x6af/0x6e0
[ +0.000003] [<ffffffff831bc8ba>] kmalloc_large_node+0x5f/0x80
[ +0.000003] [<ffffffff82c4a59a>] __kmalloc_node_track_caller+0x26a/0x2c0
[ +0.000003] [<ffffffff82c8a76f>] ? __pollwait+0x7f/0xf0
[ +0.000005] [<ffffffff83079a9d>] ? __alloc_skb+0x8d/0x2d0
[ +0.000003] [<ffffffff83078a34>] __kmalloc_reserve.isra.32+0x44/0xa0
[ +0.000002] [<ffffffff83079a6d>] ? __alloc_skb+0x5d/0x2d0
[ +0.000003] [<ffffffff83079a9d>] __alloc_skb+0x8d/0x2d0
[ +0.000003] [<ffffffff830edaf2>] sk_stream_alloc_skb+0x52/0x1b0
[ +0.000002] [<ffffffff830ee9d8>] tcp_sendmsg+0x788/0xc60
[ +0.000003] [<ffffffff82ae64d8>] ? __enqueue_entity+0x78/0x80
[ +0.000003] [<ffffffff8311acc9>] inet_sendmsg+0x69/0xb0
[ +0.000003] [<ffffffff8306e50d>] sock_aio_write+0x15d/0x180
[ +0.000003] [<ffffffff82c73397>] do_sync_readv_writev+0x77/0xd0
[ +0.000003] [<ffffffff82c74f9e>] do_readv_writev+0xce/0x260
[ +0.000003] [<ffffffff82c751c5>] vfs_writev+0x35/0x60
[ +0.000002] [<ffffffff82c7537f>] Sys_writev+0x7f/0x110
[ +0.000003] [<ffffffff831d3f95>] ? system_call_after_swapgs+0xa2/0x13a
[ +0.000003] [<ffffffff831d4052>] system_call_fastpath+0x25/0x2a
[ +0.000003] [<ffffffff831d3f95>] ? system_call_after_swapgs+0xa2/0x13a
[ +0.000001] Mem-Info:
[ +0.000004] active_anon:579695 inactive_anon:93072 isolated_anon:0
active_file:537858 inactive_file:312461 isolated_file:0
unevictable:0 dirty:1031 writeback:4 wbtmpt:0 unstable:0
slab_reclaimable:372480 slab_unreclaimable:16200
mapped:94651 shmem:56310 pagetables:17328 bounce:0
free:39530 free_pcp:4 free_cma:0
[ +0.000007] Node 0 DMA free:15904kB min:128kB low:160kB high:192kB active_anon:0kB
inactive_anon:0kB active_file:0kB inactive_file:0kB unevictable:0kB isolate
```

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d(anon):0kB isolated(file):0kB present:15996kB managed:15904kB
mlocked:0kB dirty:0kB writeback:0kB mapped:0kB shmem:0kB slab_reclaimable:0kB
slab_unreclaimable:0kB kernel_stack:0kB
pagetables:0kB unstable:0kB bounce:0kB free_pcp:0kB local_pcp:0kB free_cma:0kB
writeback_tmp:0kB pages_scanned:0 all_unreclaimable? yes
[ +0.000006] lowmem_reserve[]: 0 3081 7799 7799
[ +0.000004] Node 0 DMA32 free:72260kB min:25836kB low:32292kB high:38748kB
active_anon:890440kB inactive_anon:56080kB active_file:848188kB inactive_file:51839
6kB unevictable:0kB isolated(anon):0kB isolated(file):0kB
present:3385984kB managed:3155552kB mlocked:0kB dirty:2316kB writeback:12kB
mapped:122296kB shmem:45536kB
slab_reclaimable:710976kB slab_unreclaimable:21344kB kernel_stack:3088kB
pagetables:19944kB unstable:0kB bounce:0kB free_pcp:4kB local_pcp:0kB free_cma:0kB
writeback_tmp:0kB pages_scanned:0 all_unreclaimable?
no
[ +0.000006] lowmem_reserve[]: 0 0 4718 4718
[ +0.000003] Node 0 Normal free:69956kB min:39560kB low:49448kB high:59336kB
active_anon:1428340kB inactive_anon:316208kB active_file:1303244kB inactive_file:7
31448kB unevictable:0kB isolated(anon):0kB
isolated(file):0kB present:4980736kB managed:4831284kB mlocked:0kB dirty:1808kB
writeback:4kB mapped:256308kB shmem:1
79704kB slab_reclaimable:778944kB slab_unreclaimable:43456kB kernel_stack:6160kB
pagetables:49368kB unstable:0kB bounce:0kB free_pcp:164kB local_pcp:0kB free_cm
a:0kB writeback_tmp:0kB pages_scanned:48
all_unreclaimable? no
[ +0.000006] lowmem_reserve[]: 0 0 0 0
[ +0.000003] Node 0 DMA: 0*4kB 0*8kB 0*16kB 1*32kB (U) 2*64kB (U) 1*128kB (U) 1*256kB (U)
0*512kB 1*1024kB (U) 1*2048kB (M) 3*4096kB (M) = 15904kB
[ +0.000012] Node 0 DMA32: 8531*4kB (UEM) 1709*8kB (UEM) 1011*16kB (UEM) 187*32kB
(UEM) 35*64kB (UEM) 3*128kB (UM) 0*256kB 0*512kB 0*1024kB 0*2048kB 0*4096kB =
72580kB
[ +0.000013] Node 0 Normal: 11231*4kB (UEM) 2687*8kB (UEM) 122*16kB (UEM) 34*32kB
(UEM) 12*64kB (EM) 0*128kB 0*256kB 0*512kB 0*1024kB 0*2048kB 0*4096kB = 70228
kB
[ +0.000012] Node 0 hugepages_total=0 hugepages_free=0 hugepages_surp=0
hugepages_size=2048kB
[ +0.000001] 906866 total pagecache pages
[ +0.000002] 313 pages in swap cache
[ +0.000002] Swap cache stats: add 144423, delete 144109, find 6879297/6880886
[ +0.000001] Free swap = 8378108kB
[ +0.000002] Total swap = 8388604kB
[ +0.000001] 2095679 pages RAM
[ +0.000002] 0 pages HighMem/MovableOnly
[ +0.000001] 94994 pages reserved

```

Since I am seeing these kinds of errors on various nodes, I guess it's not a big issue. However I am wondering why this is happening? And if it's something to worry about in general?

Similar error examples:

```
[Feb23 03:37] /usr/sbin/httpd: page allocation failure: order:4, mode:0x2040d0  
[ +0.000029] /usr/sbin/httpd: page allocation failure: order:5, mode:0x2040d0  
[ +0.000776] php-fpm7.2: page allocation failure: order:5, mode:0x2040d0  
[ +0.000005] docker-proxy: page allocation failure: order:4, mode:0x2040d0  
[ +0.000154] php: page allocation failure: order:4, mode:0x2040d0
```

Mostly it's happening with "httpd", but also other occasions happen e.g. php, perl, etc.

Sidenote: it seems also to happen on an older kernel e.g. Linux servername

3.10.0-1160.41.1.vz7.183.5 #1 SMP Thu Sep 23 18:26:47 MSK 2021 x86_64 x86_64 x86_64
GNU/Linux

Bean statistics are fine though with no failcnt.

Maybe someone can enlighten me on the above. Is it a serious? Can I do something about it?
Can someone explain the issue to me?

Thanks in advance.

Regards
