

---

Subject: Migration Fails with vzmigrate: vzmdest invoked oom-killer [ovz7]

Posted by [andre](#) on Tue, 17 Sep 2019 04:23:52 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

When migrating VEs using vzmigrate, we have seen this behaviour twice today with different servers (different source and destination) and different hardware.

The destination server runs out of memory until vzmdest gets killed. It happens even without having any VEs on the destination and only the one being migrated on the source.

Command: vzmigrate -r no -v --ssh='-p 2222' DESTIP 102

3.10.0-957.12.2.vz7.96.21  
ploop-7.0.157-1.vz7.x86\_64  
ploop-lib-7.0.157-1.vz7.x86\_64

Sep 16 22:15:03 srv systemd: Removed slice User Slice of vmanager.

Sep 16 22:15:44 srv kernel: vzmdest invoked oom-killer: gfp\_mask=0x201da, order=0, oom\_score\_adj=0

Sep 16 22:15:44 srv kernel: vzmdest cpuset=/ mems\_allowed=0

Sep 16 22:15:44 srv kernel: CPU: 4 PID: 77510 Comm: vzmdest ve: 0 Not tainted

3.10.0-957.12.2.vz7.96.21 #1 96.21

Sep 16 22:15:44 srv kernel: Hardware name: Supermicro X9SCL/X9SCM/X9SCL/X9SCM, BIOS 4.6.4 06/30/2011

Sep 16 22:15:44 srv kernel: Call Trace:

Sep 16 22:15:44 srv kernel: [<ffffffff92b94677>] dump\_stack+0x19/0x1b

Sep 16 22:15:44 srv kernel: [<ffffffff92b8ef52>] dump\_header+0x90/0x229

Sep 16 22:15:44 srv kernel: [<ffffffff92569d7f>] ? delayacct\_end+0x8f/0xb0

Sep 16 22:15:44 srv kernel: [<ffffffff925cdcf8>] oom\_kill\_process+0x5e8/0x640

Sep 16 22:15:44 srv kernel: [<ffffffff925f82ce>] ? get\_task\_oom\_score\_adj+0xee/0x100

Sep 16 22:15:44 srv kernel: [<ffffffff925ce141>] out\_of\_memory+0x391/0x4e0

Sep 16 22:15:44 srv kernel: [<ffffffff92b8fa6e>] \_\_alloc\_pages\_slowpath+0x5de/0x78c

Sep 16 22:15:44 srv kernel: [<ffffffff925d4a42>] \_\_alloc\_pages\_nodemask+0x5d2/0x600

Sep 16 22:15:44 srv kernel: [<ffffffff92569ea4>] ? \_\_delayacct\_blkio\_end+0x34/0x60

Sep 16 22:15:44 srv kernel: [<ffffffff92627278>] alloc\_pages\_current+0x98/0x110

Sep 16 22:15:44 srv kernel: [<ffffffff925c8f87>] \_\_page\_cache\_alloc+0x97/0xb0

Sep 16 22:15:44 srv kernel: [<ffffffff925cbb70>] filemap\_fault+0x200/0x4b0

Sep 16 22:15:44 srv kernel: [<ffffffffffc0369d56>] ext4\_filemap\_fault+0x36/0x50 [ext4]

Sep 16 22:15:44 srv kernel: [<ffffffff925fcf1d>] \_\_do\_fault.isra.62+0x9d/0x170

Sep 16 22:15:44 srv kernel: [<ffffffff926020d5>] handle\_pte\_fault+0x3c5/0xce0

Sep 16 22:15:44 srv kernel: [<ffffffff92604b47>] handle\_mm\_fault+0x397/0x9a0

Sep 16 22:15:44 srv kernel: [<ffffffff92ba26e3>] \_\_do\_page\_fault+0x203/0x4f0

Sep 16 22:15:44 srv kernel: [<ffffffff92ba2a05>] do\_page\_fault+0x35/0x90

Sep 16 22:15:44 srv kernel: [<ffffffff92b9eab6>] ? error\_swaps+0xa7/0xbd

Sep 16 22:15:44 srv kernel: [<ffffffff92b9e768>] page\_fault+0x28/0x30

Sep 16 22:15:44 srv kernel: Mem-Info:

Sep 16 22:15:44 srv kernel: active\_anon:3444028 inactive\_anon:439407 isolated\_anon:0#012  
active\_file:1212 inactive\_file:1193 isolated\_file:0#012 unevictable:0 dirty:170 writeback:22

wbtmp:0 unstable:0#012 slab\_reclaimable:22642 slab\_unreclaimable:6879#012 mapped:3576  
shmem:2342 pagetables:14890 bounce:0#012 free:98117 free\_pcp:229 free\_cma:0  
Sep 16 22:15:44 srv kernel: Node 0 DMA free:15888kB min:316kB low:392kB high:468kB  
active\_anon:0kB inactive\_anon:0kB active\_file:0kB inactive\_file:0kB unevictable:0kB  
isolated(anon):0kB isolated(file):0kB present:15972kB managed:15888kB 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  
Sep 16 22:15:44 srv kernel: lowmem\_reserve[]: 0 2821 15856 15856  
Sep 16 22:15:44 srv kernel: Node 0 DMA32 free:109716kB min:57784kB low:72228kB  
high:86672kB active\_anon:2189164kB inactive\_anon:547540kB active\_file:1124kB  
inactive\_file:1080kB unevictable:0kB isolated(anon):0kB isolated(file):0kB present:3119688kB  
managed:2889256kB mlocked:0kB dirty:292kB writeback:24kB mapped:2672kB shmem:3516kB  
slab\_reclaimable:10004kB slab\_unreclaimable:2368kB kernel\_stack:576kB pagetables:10120kB  
unstable:0kB bounce:0kB free\_pcp:236kB local\_pcp:120kB free\_cma:0kB writeback\_tmp:0kB  
pages\_scanned:17233 all\_unreclaimable? yes  
Sep 16 22:15:44 srv kernel: lowmem\_reserve[]: 0 0 13034 13034  
Sep 16 22:15:44 srv kernel: Node 0 Normal free:266864kB min:266952kB low:333688kB  
high:400424kB active\_anon:11586948kB inactive\_anon:1210088kB active\_file:3724kB  
inactive\_file:3692kB unevictable:0kB isolated(anon):0kB isolated(file):0kB present:13631488kB  
managed:13350452kB mlocked:0kB dirty:388kB writeback:64kB mapped:11632kB  
shmem:5852kB slab\_reclaimable:80564kB slab\_unreclaimable:25148kB kernel\_stack:3920kB  
pagetables:49440kB unstable:0kB bounce:0kB free\_pcp:680kB local\_pcp:240kB free\_cma:0kB  
writeback\_tmp:0kB pages\_scanned:11140 all\_unreclaimable? yes  
Sep 16 22:15:44 srv kernel: lowmem\_reserve[]: 0 0 0 0  
Sep 16 22:15:44 srv kernel: Node 0 DMA: 0\*4kB 0\*8kB 1\*16kB (U) 0\*32kB 2\*64kB (U) 1\*128kB  
(U) 1\*256kB (U) 0\*512kB 1\*1024kB (U) 1\*2048kB (M) 3\*4096kB (M) = 15888kB  
Sep 16 22:15:44 srv kernel: Node 0 DMA32: 506\*4kB (UEM) 200\*8kB (UE) 147\*16kB (UEM)  
145\*32kB (UE) 56\*64kB (UEM) 57\*128kB (UEM) 58\*256kB (UEM) 34\*512kB (UEM) 7\*1024kB  
(UEM) 10\*2048kB (EM) 7\*4096kB (UEM) = 110072kB  
Sep 16 22:15:44 srv kernel: Node 0 Normal: 1754\*4kB (UE) 700\*8kB (UE) 655\*16kB (UEM)  
824\*32kB (UEM) 675\*64kB (UEM) 361\*128kB (UEM) 178\*256kB (UE) 123\*512kB (UEM)  
19\*1024kB (UM) 0\*2048kB 0\*4096kB = 266872kB  
Sep 16 22:15:44 srv kernel: Node 0 hugepages\_total=0 hugepages\_free=0 hugepages\_surp=0  
hugepages\_size=2048kB  
Sep 16 22:15:44 srv kernel: 4916 total pagecache pages  
Sep 16 22:15:44 srv kernel: 227 pages in swap cache  
Sep 16 22:15:44 srv kernel: Swap cache stats: add 9598431, delete 9597921, find  
3758613/4237238  
Sep 16 22:15:44 srv kernel: Free swap = 0kB  
Sep 16 22:15:44 srv kernel: Total swap = 8191992kB  
Sep 16 22:15:44 srv kernel: 4191787 pages RAM  
Sep 16 22:15:44 srv kernel: 0 pages HighMem/MovableOnly  
Sep 16 22:15:44 srv kernel: 127888 pages reserved  
Sep 16 22:15:44 srv kernel: Out of memory: Kill process 77510 (vzmdst) score 936 or sacrifice  
child  
Sep 16 22:15:44 srv kernel: Killed process 77535 (p.haul-service) in VE "0" total-vm:387416kB,  
anon-rss:1008kB, file-rss:268kB, shmem-rss:0kB

Sep 16 22:15:50 srv kernel: vzmdest invoked oom-killer: gfp\_mask=0x200da, order=0, oom\_score\_adj=0  
Sep 16 22:15:50 srv kernel: vzmdest cpuset=/ mems\_allowed=0  
Sep 16 22:15:50 srv kernel: CPU: 3 PID: 77510 Comm: vzmdest ve: 0 Not tainted 3.10.0-957.12.2.vz7.96.21 #1 96.21  
Sep 16 22:15:50 srv kernel: Hardware name: Supermicro X9SCL/X9SCM/X9SCL/X9SCM, BIOS 4.6.4 06/30/2011  
Sep 16 22:15:50 srv kernel: Call Trace:  
Sep 16 22:15:50 srv kernel: [Sep 16 22:15:50 srv kernel: [Sep 16 22:15:50 srv kernel: [...

---

Subject: Re: Migration Fails with vzmigrate: vzmdest invoked oom-killer [ovz7]  
Posted by [andre](#) on Tue, 17 Sep 2019 05:08:56 GMT  
[View Forum Message](#) <> [Reply to Message](#)

if the VE is stopped before doing the vzmigrate, it works.

---

Subject: Re: Migration Fails with vzmigrate: vzmdest invoked oom-killer [ovz7]  
Posted by [MilesWeb](#) on Thu, 10 Oct 2019 11:31:30 GMT  
[View Forum Message](#) <> [Reply to Message](#)

Other probabilities would involve fine-tuning the OOM killer, scaling the load horizontally over various small instances or decreasing the memory demands of the application.

---

Subject: Re: Migration Fails with vzmigrate: vzmdest invoked oom-killer [ovz7]  
Posted by [andre](#) on Fri, 11 Oct 2019 02:40:25 GMT  
[View Forum Message](#) <> [Reply to Message](#)

The OOM KILL happens at the destination node, where there is "nothing" running, so I have no way to save memory there. It just has the base OS (OVZ 7) with plenty of free RAM.

It doesn't happen when starting the migrated VE. The transfer has not even finished so, I believe, that the memory usage of the VE (which is running on the source node, not on the destination where the OOM happens) won't count. It is still just copying its filesystem.

It just happened with 2 different servers today, Same scenario. We had to fall back to rsync.

---