
Subject: Openvz7 container hangs at out of memory
Posted by [wishd](#) on Wed, 02 Aug 2017 15:15:53 GMT
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Odd issue coming up. If a container runs out of memory it hangs. I can not stop, enter or shut it down. dmesg shows errors like:

Running kernel 3.10.0-514.16.1.vz7.30.15

```
[31650.198123] Task in /machine.slice/806bac77-11c9-4300-9959-32f4795ab5c3 killed as a
result of limit of /machine.slice/806bac77-11c9-4300-9959-32f4795ab5c3
[31650.198125] memory: usage 2097164kB, limit 2097152kB, failcnt 10087303
[31650.198127] memory+swap: usage 3145872kB, limit 3145728kB, failcnt 218116
[31650.198129] kmem: usage 130864kB, limit 9007199254740988kB, failcnt 0
[31650.198130] Memory cgroup stats for
/machine.slice/806bac77-11c9-4300-9959-32f4795ab5c3: cache:468KB rss:1965832KB
rss_huge:0KB mapped_file:232KB shmem:256KB slab_reclaimable:37376KB
slab_unreclaimable:41552KB swap:1048708KB inactive_anon:846572KB
active_anon:1119516KB inactive_file:8KB active_file:0KB unevictable:0KB
[31650.198143] Memory cgroup out of memory: Kill process 865079 (mysqld) score 66 or
sacrifice child
[31650.198186] Killed process 9910 (mysqld) in VE "806bac77-11c9-4300-9959-32f4795ab5c3"
total-vm:908868kB, anon-rss:31720kB, file-rss:0kB, shmem-rss:0kB
[31801.312842] INFO: task ps:882799 blocked for more than 120 seconds.
```

I have these limits:

```
CT-806bac77 /# free
```

	total	used	free	shared	buff/cache	available
Mem:	2097152	291924	248116	316	1557112	1550724
Swap:	1048576	7044	1041532			

```
CT-806bac77 /# df -m
```

Filesystem	1M-blocks	Used	Available	Use%	Mounted on
/dev/ploop32004p1	50267	22346	25755	47%	/
none	32075	0	32075	0%	/sys/fs/cgroup
none	32075	0	32075	0%	/dev
tmpfs	1024	0	1024	0%	/dev/shm
tmpfs	1024	1	1024	1%	/run

```
806bac77-11c9-4300-9959-32f4795ab5c3: kmemsize          56086528          58318848
9223372036854775807 9223372036854775807          0
  lockedpages              0              0          524288          524288          0
  privvmpages             266606             276619 9223372036854775807
9223372036854775807          0
  shmpages                 420             2058 9223372036854775807
9223372036854775807          0
```

dummy	0	0	9223372036854775807	9223372036854775807	
0					
numproc	99	171	131072	131072	0
physpages	521225	524288	524288	524288	
0					
vmguarpages	0	0	786432	786432	0
oomguarpages	523579	526664	0	0	0
numtcpsock	0	0	9223372036854775807		
9223372036854775807	0				
numflock	16	21	9223372036854775807		
9223372036854775807	0				
numpty	0	0	9223372036854775807	9223372036854775807	
0					
numsignifo	0	57	9223372036854775807		
9223372036854775807	0				
tcpsndbuf	0	0	9223372036854775807	9223372036854775807	
0					
tcprcvbuf	0	0	9223372036854775807	9223372036854775807	
0					
othersockbuf	0	0	9223372036854775807		
9223372036854775807	0				
dgramrcvbuf	0	0	9223372036854775807		
9223372036854775807	0				
numothersock	0	0	9223372036854775807		
9223372036854775807	0				
dcachesize	16924672	16924672	9223372036854775807		
9223372036854775807	0				
numfile	1642	1985	9223372036854775807		
9223372036854775807	0				
dummy	0	0	9223372036854775807	9223372036854775807	
0					
dummy	0	0	9223372036854775807	9223372036854775807	
0					
dummy	0	0	9223372036854775807	9223372036854775807	
0					
numiptent	544	547	2000	2000	0

The load on the system runs up as well when this happens. All other vm's work fine and I can enter them. Only containers are running on this, 16 with overall plenty of free CPU and ram otherwise.

Subject: Re: Openvz7 container hangs at out of memory
 Posted by [khorenko](#) on Wed, 02 Aug 2017 15:26:25 GMT

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Hi,

please try latest kernel from https://download.openvz.org/virtuozzo/factory/x86_64/os/Packages/v/

And let us know in case you observe the same behavior here.
(i guess you won't, there were fixed for similar issues)

Subject: Re: Openvz7 container hangs at out of memory

Posted by [wishd](#) on Wed, 02 Aug 2017 15:47:48 GMT

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Updated and booted into this. I will report back what happens after 24 hours.

Subject: Re: Openvz7 container hangs at out of memory

Posted by [wishd](#) on Thu, 03 Aug 2017 19:51:36 GMT

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Yes its resolved.

Subject: Re: Openvz7 container hangs at out of memory

Posted by [save92](#) on Mon, 11 Sep 2017 09:53:22 GMT

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We are experiencing the same problem.

Kernel is 3.10.0-514.26.1.vz7.35.6

When a CT runs out of memory sometimes (not always), it freezes. When it happens, load average goes high and vzlist reports the same LA for each node:

```
vzlist -o ctid,laverage
```

```
      CTID    LAVERAGE
1075 51.21/47.98/73.69
1190 51.21/47.98/73.69
1324 51.21/47.98/73.69
1327 51.21/47.98/73.69
1332 51.21/47.98/73.69
1343 51.21/47.98/73.69
```

dmesg gets full of errors like:

```
[Mon Sep 11 11:27:10 2017] java invoked oom-killer: gfp_mask=0xd0, order=0, oom_score_adj=0
```

[Mon Sep 11 11:27:10 2017] java cpuset=1652 mems_allowed=0-1
[Mon Sep 11 11:27:10 2017] CPU: 7 PID: 248313 Comm: java ve: 1652 Not tainted
3.10.0-514.26.1.vz7.35.6 #1 35.6
[Mon Sep 11 11:27:10 2017] Hardware name: Supermicro SYS-1028TP-DTR/X10DRT-P, BIOS
2.0a 08/12/2016
[Mon Sep 11 11:27:10 2017] 0000000000000000 000000007626cf68 ffff881eeebd3c98
ffffff816838f0
[Mon Sep 11 11:27:10 2017] ffff881eeebd3d28 fffffff816801eb 0000000000000000
000000000000001f9
[Mon Sep 11 11:27:10 2017] ffff8812e044b890 ffff881eeebd3d20 fffffff81191507
ffff881eeebd3fd8
[Mon Sep 11 11:27:10 2017] Call Trace:
[Mon Sep 11 11:27:10 2017] [<ffffff816838f0>] dump_stack+0x19/0x1b
[Mon Sep 11 11:27:10 2017] [<ffffff816801eb>] dump_header+0x8e/0x225
[Mon Sep 11 11:27:10 2017] [<ffffff81191507>] ? __add_to_page_cache_locked+0x97/0x310
[Mon Sep 11 11:27:10 2017] [<ffffff8119596c>] oom_kill_process+0x5ec/0x640
[Mon Sep 11 11:27:10 2017] [<ffffff811bdbae>] ? get_task_oom_score_adj+0xee/0x100
[Mon Sep 11 11:27:10 2017] [<ffffff81120a749>] mem_cgroup_oom_synchronize+0x499/0x4e0
[Mon Sep 11 11:27:10 2017] [<ffffff811c5e14>] ? handle_mm_fault+0x9e4/0xdc0
[Mon Sep 11 11:27:10 2017] [<ffffff81195f13>] pagefault_out_of_memory+0x13/0x50
[Mon Sep 11 11:27:10 2017] [<ffffff8167e56a>] mm_fault_error+0x68/0x12b
[Mon Sep 11 11:27:10 2017] [<ffffff8168f025>] __do_page_fault+0x395/0x450
[Mon Sep 11 11:27:10 2017] [<ffffff8168f115>] do_page_fault+0x35/0x90
[Mon Sep 11 11:27:10 2017] [<ffffff8168b2c8>] page_fault+0x28/0x30
[Mon Sep 11 11:27:10 2017] Task in /machine.slice/1652 killed as a result of limit of
/machine.slice/1652
[Mon Sep 11 11:27:10 2017] memory: usage 16699852kB, limit 16777216kB, failcnt 0
[Mon Sep 11 11:27:10 2017] memory+swap: usage 16908288kB, limit 16908288kB, failcnt 63525
[Mon Sep 11 11:27:10 2017] kmem: usage 146276kB, limit 9007199254740988kB, failcnt 0
[Mon Sep 11 11:27:10 2017] Memory cgroup stats for /machine.slice/1652: rss_huge:7802880KB
mapped_file:36KB shmem:348KB slab_unreclaimable:55796KB swap:208436KB cache:556KB
rss:16553020KB slab_reclaim
able:34504KB inactive_anon:1985016KB active_anon:14568352KB inactive_file:12KB
active_file:8KB unevictable:0KB
[Mon Sep 11 11:27:10 2017] Memory cgroup out of memory: Kill process 1008195 (java) score
217 or sacrifice child
[Mon Sep 11 11:27:10 2017] Killed process 37119 (java) in VE "1652" total-vm:9411892kB,
anon-rss:3677412kB, file-rss:0kB, shmem-rss:0kB