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Subject: Re: occasional high loadavg without any noticeable cpu/memory/io load  
Posted by [Kirill Korotaev](#) on Tue, 10 Jul 2012 16:34:23 GMT

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I can take a look if you give me access to node.  
If agree - send it privately, w/o users@ on CC.

Kirill

On Jul 10, 2012, at 18:40 , Rene C. wrote:

No takers for this one?

If I missed to provide any important information please let me know. The issue happens regularly on several hardware nodes so if I missed anything I can check it next time it happens.

On Wed, Jul 4, 2012 at 4:16 PM, Rene C. <[openvz@dokbua.com](mailto:openvz@dokbua.com)<<mailto:openvz@dokbua.com>>> wrote:

Today I again had a VE that went up to a relative high load for no apparent reason.

Below are the details for the hardware node, followed by the high-load container.

I realize it's not the latest kernel, but a reboot takes half an hour (from first VE goes down to last VE is back up, assuming everything goes well and no FSCK is forced) so we only reboot into new kernels when there is a really serious reason for it or the server crashes - but I don't see anything in the kernel updates since our current kernel that would address this issue anyway.

Why does the load in this container suddenly go up like that? Websites hosted by the container becomes very sluggish, so it is a real problem.

It isn't just a problem with this container - or even this hardware node for that reason, I occasionally see it with containers on other hardware nodes as well. One idea I brought up before was that perhaps it's the file system journal, as suggested in <http://wiki.openvz.org/Ploop/Why> - but I think that would affect all containers on that file system, not just a single container?

--- HARDWARE NODE ---

```
# uname -a
```

```
Linux server15.hardwarenode.com<http://server15.hardwarenode.com/> 2.6.32-042stab049.6 #1  
SMP Mon Feb 6 19:17:43 MSK 2012 x86_64 x86_64 x86_64 GNU/Linux
```

```
# rpm -q sl-release
```

```
sl-release-6.1-2.x86_64
```

```
# top -cbn1 | head -17
```

```
top - 21:00:02 up 123 days, 15:31, 1 user, load average: 0.97, 2.70, 2.37  
Tasks: 886 total, 6 running, 880 sleeping, 0 stopped, 0 zombie
```

Cpu(s): 8.4%us, 1.7%sy, 0.0%ni, 86.3%id, 3.5%wa, 0.0%hi, 0.1%si, 0.0%st  
Mem: 16420716k total, 15566264k used, 854452k free, 1477372k buffers  
Swap: 16777184k total, 623672k used, 16153512k free, 4578176k cached

```
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
94153 27 20 0 164m 41m 3392 S 150.9 0.3 50575:37 /usr/libexec/mys
9178 27 20 0 159m 29m 3000 S 72.6 0.2 1284:50 /usr/libexec/mysq
567031 apache 20 0 40296 15m 3588 S 17.2 0.1 0:00.09 /usr/sbin/httpd
567382 root 20 0 15672 1820 864 R 5.7 0.0 0:00.04 top -cbn1
38 root 20 0 0 0 0 S 1.9 0.0 2:55.25 [events/3]
41 root 20 0 0 0 0 S 1.9 0.0 0:29.00 [events/6]
566362 apache 20 0 43240 19m 4448 R 1.9 0.1 0:01.04 /usr/sbin/httpd
566857 apache 20 0 55248 11m 3456 R 1.9 0.1 0:00.05 /usr/sbin/httpd
566918 apache 20 0 42596 17m 3704 S 1.9 0.1 0:00.15 /usr/sbin/httpd
567033 apache 20 0 39784 14m 3468 S 1.9 0.1 0:00.01 /usr/sbin/httpd
```

```
# vzlist -o ctid,lverage
CTID LAVERAGE
1501 0.00/0.05/0.02
1502 0.00/0.00/0.00
1503 0.08/0.03/0.01
1504 0.00/0.00/0.00
1505 8.29/6.04/3.67
1506 27.11/16.97/7.89
1507 0.00/0.00/0.00
1508 0.19/0.06/0.01
1509 0.07/0.03/0.00
1510 0.02/0.02/0.00
1512 0.00/0.00/0.00
1514 0.00/0.00/0.00
```

```
# iostat -xN
Linux 2.6.32-042stab049.6 (server15.hardwarenode.com<http://server15.hardwarenode.com/>)
07/03/12 _x86_64_ (8 CPU)
```

```
avg-cpu: %user %nice %system %iowait %steal %idle
8.41 0.04 1.75 3.51 0.00 86.28
```

```
Device: rrqm/s wrqm/s r/s w/s rsec/s wsec/s avgrq-sz avgqu-sz await svctm %util
sdd 0.76 56.58 0.59 0.59 20.27 457.28 402.66 0.25 211.66 4.03 0.48
sdc 1.72 27.94 17.20 16.16 887.30 336.18 36.68 0.02 12.71 5.23 17.45
sdb 1.65 27.79 19.48 12.95 975.43 318.64 39.91 0.09 15.22 3.77 12.23
sda 0.01 0.16 0.10 0.24 1.95 2.79 13.79 0.00 7.06 4.16 0.14
vg01-swap 0.00 0.00 0.00 0.00 0.00 0.00 8.00 0.00 3.68 2.22 0.00
vg01-root 0.00 0.00 0.11 0.35 1.94 2.78 10.30 0.02 38.30 3.12 0.14
vg04-swap 0.00 0.00 1.30 0.22 10.41 1.80 8.00 0.01 9.28 1.44 0.22
vg04-vz 0.00 0.00 0.05 56.94 9.86 455.49 8.17 0.01 0.18 0.05 0.27
vg03-swap 0.00 0.00 0.00 0.00 0.00 0.00 8.00 0.00 6.72 1.10 0.00
```

vg03-vz	0.00	0.00	18.98	42.41	887.30	336.18	19.93	0.39	6.33	2.84	17.45
vg02-swap	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	7.03	0.89	0.00
vg02-vz	0.00	0.00	21.19	39.91	975.43	318.64	21.18	0.15	8.99	2.00	12.23
vg01-vz	0.00	0.00	0.00	0.00	0.00	0.00	7.98	0.00	17.73	17.73	0.00

--- CONTAINER ---

# top -cbn1 | head -100

top - 21:00:04 up 123 days, 15:25, 0 users, load average: 27.11, 16.97, 7.89

Tasks: 86 total, 2 running, 84 sleeping, 0 stopped, 0 zombie

Cpu(s): 1.4%us, 0.2%sy, 0.0%ni, 98.1%id, 0.1%wa, 0.0%hi, 0.0%si, 0.2%st

Mem: 655360k total, 316328k used, 339032k free, 0k buffers

Swap: 1310720k total, 68380k used, 1242340k free, 58268k cached

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
916	mysql	20	0	159m	29m	3000	S	79.3	4.6	1284:51	/usr/libexec/mysqld
1	root	20	0	2156	92	64	S	0.0	0.0	0:36.50	init [3]
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	[kthreadd/1506]
3	root	20	0	0	0	0	S	0.0	0.0	0:00.00	[khelper/1506]
97	root	16	-4	2244	8	4	S	0.0	0.0	0:00.00	/sbin/udevd -d
634	root	20	0	1812	212	136	S	0.0	0.0	2:39.88	syslogd -m 0
667	root	20	0	7180	268	168	S	0.0	0.0	1:01.55	/usr/sbin/sshd
676	root	20	0	2832	392	304	S	0.0	0.1	0:15.13	xinetd -stayalive -
690	root	20	0	6040	124	72	S	0.0	0.0	0:02.45	/usr/lib/courier-im
693	root	20	0	4872	252	200	S	0.0	0.0	0:01.94	/usr/sbin/courierlo
701	root	20	0	6040	124	72	S	0.0	0.0	0:06.34	/usr/lib/courier-im
703	root	20	0	4872	256	200	S	0.0	0.0	0:03.09	/usr/sbin/courierlo
709	root	20	0	6040	128	72	S	0.0	0.0	0:18.15	/usr/lib/courier-im
711	root	20	0	4872	256	200	S	0.0	0.0	0:09.15	/usr/sbin/courierlo
718	root	20	0	6040	124	72	S	0.0	0.0	0:05.68	/usr/lib/courier-im
720	root	20	0	4872	252	200	S	0.0	0.0	0:02.54	/usr/sbin/courierlo
730	qmails	20	0	1796	224	144	S	0.0	0.0	1:27.21	qmail-send
732	qmail	20	0	1752	244	192	S	0.0	0.0	0:22.64	splogger qmail
733	root	20	0	1780	140	64	S	0.0	0.0	0:07.85	qmail-lspawn   /usr
734	qmailr	20	0	1776	148	76	S	0.0	0.0	0:14.07	qmail-rspawn
735	qmailq	20	0	1748	104	68	S	0.0	0.0	0:14.01	qmail-clean
781	root	20	0	51880	4364	196	S	0.0	0.7	1:35.02	/usr/sbin/httpd
828	named	20	0	44104	5708	1112	S	0.0	0.9	10:10.53	/usr/sbin/named -u
866	root	20	0	3708	8	4	S	0.0	0.0	0:00.00	/bin/sh /usr/bin/my
981	root	20	0	33912	3756	916	S	0.0	0.6	10:55.30	/usr/bin/spamd --us
1107	xfs	20	0	3392	72	40	S	0.0	0.0	0:00.09	xfs -droppriv -daem
1115	root	20	0	5672	8	4	S	0.0	0.0	0:00.00	/usr/sbin/saslauthd
1116	root	20	0	5672	8	4	S	0.0	0.0	0:00.00	/usr/sbin/saslauthd
1122	root	20	0	22992	1868	1084	S	0.0	0.3	2:09.79	/usr/bin/sw-engine
1123	root	20	0	27328	1508	1160	S	0.0	0.2	6:06.30	/usr/local/psa/admi
7251	root	20	0	4488	192	136	S	0.0	0.0	0:22.85	crond
9463	apache	20	0	59184	14m	4356	S	0.0	2.3	0:05.10	/usr/sbin/httpd
10512	apache	20	0	42316	2504	84	S	0.0	0.4	0:00.91	/usr/sbin/httpd

12090	apache	20	0	56964	14m	4492	S	0.0	2.2	0:04.48	/usr/sbin/httpd
12682	apache	20	0	61060	17m	4516	S	0.0	2.7	0:02.45	/usr/sbin/httpd
13870	sw-cp-se	20	0	7852	1932	16	S	0.0	0.3	1:19.03	/usr/sbin/sw-cp-ser
17443	apache	20	0	62416	17m	4436	S	0.0	2.7	0:05.27	/usr/sbin/httpd
17461	apache	20	0	52788	10m	4480	S	0.0	1.6	0:02.24	/usr/sbin/httpd
20430	apache	20	0	62164	17m	4356	S	0.0	2.7	0:04.25	/usr/sbin/httpd
23539	popuser	20	0	37612	25m	2328	S	0.0	3.9	0:01.50	spamd child
23924	apache	20	0	58004	15m	5536	S	0.0	2.4	0:01.56	/usr/sbin/httpd
26361	apache	20	0	54496	11m	3864	S	0.0	1.8	0:01.35	/usr/sbin/httpd
26366	apache	20	0	52944	9.8m	3892	S	0.0	1.5	0:01.45	/usr/sbin/httpd
26964	apache	20	0	59184	14m	4316	S	0.0	2.3	0:07.26	/usr/sbin/httpd
27096	apache	20	0	53728	10m	3868	S	0.0	1.6	0:00.33	/usr/sbin/httpd
27102	apache	20	0	54736	11m	3780	S	0.0	1.8	0:00.15	/usr/sbin/httpd
27103	apache	20	0	54480	11m	3784	S	0.0	1.7	0:00.11	/usr/sbin/httpd
27115	apache	20	0	57064	12m	3816	S	0.0	2.0	0:00.32	/usr/sbin/httpd
27118	apache	20	0	53728	10m	3884	S	0.0	1.6	0:01.21	/usr/sbin/httpd
27120	apache	20	0	52184	8376	3120	S	0.0	1.3	0:00.00	/usr/sbin/httpd
27129	apache	20	0	52168	8072	2960	S	0.0	1.2	0:00.00	/usr/sbin/httpd
27139	apache	20	0	53304	9840	3744	S	0.0	1.5	0:01.08	/usr/sbin/httpd
27140	apache	20	0	53000	9.8m	3832	S	0.0	1.5	0:00.66	/usr/sbin/httpd
27144	apache	20	0	52168	8072	2960	S	0.0	1.2	0:00.00	/usr/sbin/httpd
27147	apache	20	0	53252	12m	5536	S	0.0	1.9	0:00.50	/usr/sbin/httpd
27149	apache	20	0	52980	9924	3740	S	0.0	1.5	0:00.17	/usr/sbin/httpd
27153	apache	20	0	53728	10m	3836	S	0.0	1.6	0:00.49	/usr/sbin/httpd
27164	apache	20	0	55224	11m	3812	S	0.0	1.9	0:00.47	/usr/sbin/httpd
27171	apache	20	0	52916	9776	3708	S	0.0	1.5	0:00.16	/usr/sbin/httpd
27172	apache	20	0	52916	9452	3436	S	0.0	1.4	0:00.17	/usr/sbin/httpd
27173	apache	20	0	55340	11m	3720	S	0.0	1.8	0:00.08	/usr/sbin/httpd
27179	apache	20	0	52020	7764	2716	S	0.0	1.2	0:00.00	/usr/sbin/httpd
27182	apache	20	0	52020	7764	2716	S	0.0	1.2	0:00.00	/usr/sbin/httpd
27185	apache	20	0	55224	11m	3824	S	0.0	1.9	0:00.30	/usr/sbin/httpd
27186	apache	20	0	53788	10m	3840	S	0.0	1.7	0:00.11	/usr/sbin/httpd
27187	apache	20	0	52916	9448	3436	S	0.0	1.4	0:00.08	/usr/sbin/httpd
27188	apache	20	0	54628	10m	3504	S	0.0	1.7	0:00.05	/usr/sbin/httpd
27196	apache	20	0	53728	10m	3572	S	0.0	1.6	0:00.36	/usr/sbin/httpd
27200	apache	20	0	54628	11m	3796	S	0.0	1.7	0:00.05	/usr/sbin/httpd
27202	apache	20	0	54480	11m	3796	S	0.0	1.7	0:00.10	/usr/sbin/httpd
27204	apache	20	0	53992	10m	3544	S	0.0	1.6	0:00.09	/usr/sbin/httpd
27207	apache	20	0	52168	8084	2960	S	0.0	1.2	0:00.00	/usr/sbin/httpd
27213	apache	20	0	52020	6464	1788	S	0.0	1.0	0:00.00	/usr/sbin/httpd
27214	apache	20	0	54216	10m	3516	S	0.0	1.6	0:00.05	/usr/sbin/httpd
27215	apache	20	0	52020	6456	1788	S	0.0	1.0	0:00.00	/usr/sbin/httpd
27216	apache	20	0	52020	7860	2804	S	0.0	1.2	0:00.00	/usr/sbin/httpd
27218	root	20	0	9400	1900	1408	S	0.0	0.3	0:00.00	cron
27219	root	20	0	2492	956	848	S	0.0	0.1	0:00.00	/bin/sh -c /usr/loc
27220	root	20	0	2496	1052	920	S	0.0	0.2	0:00.00	/bin/sh /usr/local/
27233	root	20	0	2540	1016	892	S	0.0	0.2	0:00.00	/bin/bash -c top -c
27234	root	20	0	2284	952	724	R	0.0	0.1	0:00.00	top -cbn1

```

27235 root    20  0 1756 420 352 S 0.0 0.1 0:00.00 head -100
27247 root    20  0 2496 452 320 S 0.0 0.1 0:00.00 /bin/sh /usr/local/
27248 root    20  0 8280 1504 1120 R 0.0 0.2 0:00.00 /usr/bin/mysql -uad
27249 root    20  0 1800 448 376 S 0.0 0.1 0:00.00 sed -e 1d
27250 root    20  0 2240 640 540 S 0.0 0.1 0:00.00 awk {printf("%s", $

```

```
# netstat -ptan | grep ESTABLISHED
```

```

tcp    0  0 ::ffff:xx.xx.xx.xx:80 ::ffff:77.87.207.166:21863<http://77.87.207.166:21863/>
ESTABLISHED 23924/httpd
tcp    0  0 ::ffff:xx.xx.xx.xx:80 ::ffff:95.165.204.26:62259<http://95.165.204.26:62259/>
ESTABLISHED 27144/httpd
tcp    0  0 ::ffff:xx.xx.xx.xx:80 ::ffff:193.151.105.100:4059<http://193.151.105.100:4059/>
ESTABLISHED 27200/httpd
tcp    0  0 ::ffff:xx.xx.xx.xx:80 ::ffff:109.169.207.68:50087<http://109.169.207.68:50087/>
ESTABLISHED 27185/httpd
tcp    0  0 ::ffff:xx.xx.xx.xx:80 ::ffff:31.131.70.135:57017<http://31.131.70.135:57017/>
ESTABLISHED 27179/httpd
tcp    0  0 ::ffff:xx.xx.xx.xx:80 ::ffff:95.165.204.26:62220<http://95.165.204.26:62220/>
ESTABLISHED 27103/httpd
tcp    0  0 ::ffff:xx.xx.xx.xx:80 ::ffff:188.134.61.1:60732<http://188.134.61.1:60732/>
ESTABLISHED 27215/httpd
tcp    0  0 ::ffff:xx.xx.xx.xx:80 ::ffff:193.151.105.100:4112<http://193.151.105.100:4112/>
ESTABLISHED 26964/httpd
tcp    0  0 ::ffff:xx.xx.xx.xx:80 ::ffff:109.169.207.68:50043<http://109.169.207.68:50043/>
ESTABLISHED 27164/httpd
tcp    0  0 ::ffff:xx.xx.xx.xx:80 ::ffff:31.131.70.135:56976<http://31.131.70.135:56976/>
ESTABLISHED 27153/httpd

```

```
# cat /proc/user_beancounters
```

```
Version: 2.5
```

uid	resource	held	maxheld	barrier	limit	failcnt
1506:	kmemsize	27735306	179081216	304087040		335544320
0	lockedpages	0	0	81920	81920	0
	privvmpages	393683	430195	9223372036854775807		
9223372036854775807	shmpages	823	21639	9223372036854775807		
9223372036854775807	dummy	0	0	0	0	0
	numproc	128	204	9223372036854775807		
9223372036854775807	physpages	79702	163840	0	163840	
0	vmguarpages	0	0	0	9223372036854775807	
0	oomguarpages	74734	75707	0	9223372036854775807	
0	numtcpsock	59	153	9223372036854775807		

9223372036854775807	0				
numflock	46	62	9223372036854775807		
9223372036854775807	0				
numpty	0	1	9223372036854775807	9223372036854775807	
0					
numsigninfo	0	33	9223372036854775807		
9223372036854775807	0				
tcpsndbuf	1037680	11426176	9223372036854775807		
9223372036854775807	0				
tcprcvbuf	966656	2867584	9223372036854775807		
9223372036854775807	0				
othersockbuf	53824	838688	9223372036854775807		
9223372036854775807	0				
dgramrcvbuf	0	502224	9223372036854775807		
9223372036854775807	0				
numothersock	114	273	9223372036854775807		
9223372036854775807	0				
dcachesize	10070617	167772160	150994944	167772160	
0					
numfile	1634	1865	9223372036854775807		
9223372036854775807	0				
dummy	0	0	0	0	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
numiptent	20	20	9223372036854775807		
9223372036854775807	0				

<ATT00001.c>

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