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Subject: dcachesize possible issue?

Posted by [daniel\\_vz](#) on Mon, 25 Nov 2013 12:41:29 GMT

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Hello everyone,

I noticed today a possible issue with one of my VPSes.

It shows an abnormal value for dcachesize.

Current limits are as follows:

```
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CT 103   | HELD Bar% Lim%| MAXH Bar% Lim%| BAR | LIM | FAIL
-----+-----+-----+-----+-----
  kmemsize|10.5G  -  - |15.5G  -  - | - | - | -
 lockedpages| -  -  - | 20K  -  - | - | - | -
 privvmpages|249M  -  - |1.28G  -  - | - | - | -
  shmpages|92.9M  -  - |151M  -  - | - | - | -
  numproc| 32  -  - | 75  -  - | - | - | -
  physpages|11.2G  - 70%| 16G  - 100%| - | 16G| -
 vmguarpages| -  -  - | -  -  - | - | - | -
 oomguarpages|147M  -  - |262M  -  - | - | - | -
 numtcpsock| 14  -  - |117  -  - | - | - | -
  numflock| 2  -  - | 39  -  - | - | - | -
  numpty| -  -  - | 3  -  - | - | - | -
 numsignifo| -  -  - | 27  -  - | - | - | -
 tcpsndbuf|553K  -  - |4.23M  -  - | - | - | -
 tcprcvbuf|2.16M  -  - |26.6M  -  - | - | - | -
 othersockbuf|27.1K  -  - |1.05M  -  - | - | - | -
 dgramrcvbuf| -  -  - |9.03K  -  - | - | - | -
 numothersock| 59  -  - |129  -  - | - | - | -
 dcachesize|10.5G  -  - |15.5G  -  - | - | - | -
  numfile|1.53K  -  - |1.94K  -  - | - | - | -
 numiptent| 24  -  - | 24  -  - | - | - | -
 swappages|3.81M  - 0.2%|126M  - 6%| - | 2G| -
-----
```

There are no failcnts and the machine is up and running for a month now. Restarting the web and php-fpm servers didn't do much to lower the value. Is this metric supposed to stay that way all the time or it does decrease automatically?

Looking at open files usage I don't see something which accounts for that high of a value.

Currently running the following kernel on the host:

Mon Nov 25 15:31:41 2013

ftop 1.0

Processes: 24 total, 1 unreadable

Press h for help, o for options

Open Files: 35 regular, 0 dir, 53 chr, 0 blk, 22 pipe, 67 sock, 17 misc

| _  | PID   | #FD | USER  | COMMAND   |
|----|-------|-----|-------|---|
| -- | 10882 | 17  | root  | nginx: master process /usr/sbin/nginx -c /etc/nginx/nginx.confnginx: worker process |
|    | +-    | err | --W   | -- 0/0 /var/log/nginx/error.log (fd 4 for PID 10882)                                |
|    | +-    | 4   | --W   | -- 0/0 /var/log/nginx/error.log (stderr from PID 10882)                             |
|    | +-    | 5   | --W   | >- 141626/141626 /var/log/nginx/access.log (fd 5 for PID 10883)                     |
|    | +-    | 6   | --W   | -- 442029/442029 /var/log/nginx/website/access.log (fd 6 for PID 10883)             |
|    | +-    | 7   | --W   | -- 40.3M/0 /var/log/nginx/website/error.log (fd 7 for PID 10883)                    |
| -- | 10883 | 15  | nginx | nginx: worker process   |
|    | +-    | err | --W   | -- 0/0 /var/log/nginx/error.log (stderr from PID 10882)                             |
|    | +-    | 4   | --W   | -- 0/0 /var/log/nginx/error.log (stderr from PID 10882)                             |
|    | +-    | 5   | --W   | >- 141626/141626 /var/log/nginx/access.log (fd 5 for PID 10882)                     |
|    | +-    | 6   | --W   | -- 442029/442029 /var/log/nginx/website/access.log (fd 6 for PID 10882)             |
|    | +-    | 7   | --W   | -- 40.3M/0 /var/log/nginx/website/error.log (fd 7 for PID 10882)                    |
| -- | 10884 | 15  | nginx | nginx: worker process   |
|    | +-    | err | --W   | -- 0/0 /var/log/nginx/error.log (stderr from PID 10882)                             |
|    | +-    | 4   | --W   | -- 0/0 /var/log/nginx/error.log (stderr from PID 10882)                             |
|    | +-    | 5   | --W   | >- 141626/141626 /var/log/nginx/access.log (fd 5 for PID 10882)                     |
|    | +-    | 6   | --W   | -- 442029/442029 /var/log/nginx/website/access.log (fd 6 for PID 10882)             |
|    | +-    | 7   | --W   | -- 40.3M/0 /var/log/nginx/website/error.log (fd 7 for PID 10882)                    |
| -- | 10885 | 15  | nginx | nginx: worker process   |
|    | +-    | err | --W   | -- 0/0 /var/log/nginx/error.log (stderr from PID 10882)                             |
|    | +-    | 4   | --W   | -- 0/0 /var/log/nginx/error.log (stderr from PID 10882)                             |
|    | +-    | 5   | --W   | >- 141626/141626 /var/log/nginx/access.log (fd 5 for PID 10882)                     |
|    | +-    | 6   | --W   | -- 442029/442029 /var/log/nginx/website/access.log (fd 6 for PID 10882)             |
|    | +-    | 7   | --W   | -- 40.3M/0 /var/log/nginx/website/error.log (fd 7 for PID 10882)                    |
| -- | 10887 | 15  | nginx | nginx: worker process   |
|    | +-    | err | --W   | -- 0/0 /var/log/nginx/error.log (stderr from PID 10882)                             |
|    | +-    | 4   | --W   | -- 0/0 /var/log/nginx/error.log (stderr from PID 10882)                             |
|    | +-    | 5   | --W   | >- 141626/141626 /var/log/nginx/access.log (fd 5 for PID 10882)                     |
|    | +-    | 6   | --W   | -- 442029/442029 /var/log/nginx/website/access.log (fd 6 for PID 10882)             |
|    | +-    | 7   | --W   | -- 40.3M/0 /var/log/nginx/website/error.log (fd 7 for PID 10882)                    |
| -- | 119   | 10  | root  | /sbin/udev -d   |
|    | +-    | 10  | -rw   | -- 1053/1053 /dev/.udev/queue.bin   |
| -- | 401   | 5   | root  | /sbin/rsyslogd -i /var/run/syslogd.pid -c 5   |
|    | +-    | out | --W   | -- 206/206 /var/log/messages  |
|    | +-    | err | --W   | -- 9927/9927 /var/log/cron  |

```

| +- 3 -r- -- 0/0 /proc/kmsg
| +- 4 --W -- 6103/6103 /var/log/secure
-- 438 6 root sendmail: accepting connectionssendmail: Queue runner@01:00:00 for
/var/spool/clientmqueuecrond
| +- 5 --w -- 32/32 /var/run/sendmail.pid
-- 446 5 smmsp sendmail: Queue runner@01:00:00 for /var/spool/clientmqueuecrond
| +- 4 --w -- 48/48 /var/run/sm-client.pid
-- 473 6 root crond
| +- 3 -rw -- 4/4 /var/run/crond.pid
-- 10904 11 root php-fpm: master process (/etc/php-fpm.conf)sshd: app [priv]
+- err --W -- 2052/2052 /var/log/php-fpm/error.log (fd 5 for PID 10904)
+- 5 --W -- 2052/2052 /var/log/php-fpm/error.log (stderr from PID 10904)

```

No zombie processes that hold open files.

```

[root@app /]# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/ploop46926p1 20G  8.3G  11G  44% /
none            3.0G  4.0K  3.0G   1% /dev
[root@app /]# df -i
Filesystem      Inodes  IUsed  IFree IUse% Mounted on
/dev/ploop46926p1 1282560 144098 1138462  12% /
none            786432   151  786281   1% /dev

```

I'm nowhere near the available free space in the VPS.

```

[root@CentOS-64-64-minimal conf]# vzcfgvalidate 103.conf
Validation completed: success

```

VPS is running CentOS 6.4 just like the host system. Is this an OpenVZ matter or the guest system is caching more files than I would like?

Any help is appreciated.