Subject: Processes are wrong
Posted by eugeniopacheco on Wed, 18 Oct 2006 23:24:21 GMT
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Hi,

I'm having a little problem with processes on a VPS. My node OS is FC 4 and the VPS is running on Debian-3.1-minimal. This is what's happening:

```
[root@server ~]# vzlist
    VPSID      NPROC STATUS  IP_ADDR         HOSTNAME
      ...        ... ...     ...             ...
      114         84 running x.x.x.x     ShellCenter.Org

[root@server ~]# vzmemcheck -Av
Output values in Mbytes
veid       LowMem  LowMem     RAM MemSwap MemSwap   Alloc   Alloc   Alloc
           util  commit    util    util  commit    util  commit   limit
101          2.15   11.38   60.22   61.59  155.56  194.08  155.56  560.59
102          0.29   11.38    3.99    4.00  155.56    4.88  155.56  560.59
103          2.52   11.38   37.00   38.59  155.56  401.73  155.56  560.59
104          2.79   11.38   40.83   41.10  155.56  105.50  155.56  560.59
105          0.61   34.14   14.93   15.03  934.16   16.82  934.16 1063.22
106          1.06   11.38   34.13   34.38  155.56  168.35  155.56  560.59
107          0.27   11.38    4.03    4.03  155.56    4.95  155.56  560.59
108          2.82   11.38   71.31   72.47  155.56  307.97  155.56  560.59
109          0.29   11.38    4.01    4.09  155.56    4.97  155.56  560.59
110          1.80   11.38   30.82   31.26  155.56  105.88  155.56  560.59
111          0.32   11.38    6.99    7.19  155.56    8.73  155.56  560.59
114          3.47   11.38   73.78   74.10  155.56  409.11  155.56  560.59
 ------------------------------------------------------------ -------------
Summary:     18.38  159.32  382.05  387.84 2645.27 1732.95 2645.27 7229.76
        325.00  325.00 1499.00 4700.00 4700.00 4700.00 4700.00 4700.00


[root@server ~]# vzctl exec 114 ps aux
USER       PID %CPU %MEM   VSZ  RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.0  1504  488 ?        Ss   Oct07   0:11 init [2]
nobody    9347  0.0  0.0  2340 1152 ?        Ss   Oct07   0:00 proftpd: (accepting connections)
root      9489  0.0  0.0  1560  596 ?        Ss   Oct07   0:29 /sbin/syslogd
root      9578  0.0  0.0  3468 1532 ?        Ss   Oct07   0:56 /usr/sbin/sshd
daemon    9589  0.0  0.0  1684  628 ?        Ss   Oct07   0:00 /usr/sbin/atd
root      9598  0.0  0.0  1756  712 ?        Ss   Oct07   0:00 /usr/sbin/cron
fifabra  21905  0.0  0.1 12368 2728 ?        S    Oct09   0:28 ./eggdrop conf.FBRASIL
fifabra  21908  0.0  0.1 12364 2692 ?        S    Oct09   0:23 ./eggdrop conf.FBR
fifabra  21912  0.0  0.1 12360 2616 ?        S    Oct09   0:26 ./eggdrop conf.FIFAMANIA
fifabra  21916  0.0  0.1 12504 2824 ?        S    Oct09   0:48 ./eggdrop conf.PARCEIROS
guthin   23633  0.0  0.1 12220 2648 ?        S    Oct09   0:16 ./eggdrop teresina.conf
```

```
guthin   23691  0.0  0.1 12220 2712 ?        S    Oct09   0:18 ./eggdrop niteroi.conf
juniorr  15862  0.0  0.1 12376 2800 ?        S    Oct09   0:37 ./eggdrop kryptoniano.conf
juniorr  15868  0.0  0.1 12376 2672 ?        S    Oct09   0:19 ./eggdrop lost1.conf
juniorr  15934  0.0  0.1 12372 2664 ?        S    Oct09   0:18 ./eggdrop lost3.conf
hostage  12189  0.0  0.1 12444 2736 ?        S    Oct09   4:51 ./eggdrop conf.Hostage
hostage  12192  0.0  0.1 12360 2608 ?        S    Oct09   3:28 ./eggdrop conf.WebHost
hostage  12195  0.0  0.1 12360 2616 ?        S    Oct09   3:20 ./eggdrop conf.AgitoJovem
hostage  12198  0.0  0.1 12360 2636 ?        S    Oct09   3:43 ./eggdrop conf.http
guthin    1437  0.0  0.2 12500 3136 ?        S    Oct09   0:50 ./eggdrop -m flamengo.conf
erasmov  32507  0.0  0.2 13420 3720 ?        S    Oct11   0:07 ./eggdrop conf.Caxias
erasmov  32520  0.0  0.1 12504 2808 ?        S    Oct11   0:10 ./eggdrop conf.Info_Caxias
erasmov  32546  0.0  0.2 13604 4012 ?        S    Oct11   0:35 ./eggdrop conf.wall
canalir  13648  0.0  0.1 12624 2688 ?        S    Oct12   0:22 ./eggdrop
conf.ANDRE_DOS_ANJOS_OFFline
canalir  20093  0.0  0.3 14732 4876 ?        S    Oct12   0:21 ./eggdrop conf.CanaL_IRCplugado
juniorr  25620  0.0  0.1 12368 2768 ?        S    Oct12   0:20 ./eggdrop -m downloads.conf
juninho  11994  0.0  0.1 40444 2568 ?        S    Oct12   0:01 ./sc_serv
dj       12179  0.0  0.5 26760 8148 ?        S    Oct12   0:00 ./dj juninho.conf
juniorr  28550  0.0  0.1 12368 2672 ?        S    Oct14   0:06 ./eggdrop lost2.conf
nescau   11991  0.0  0.4 16932 7348 ?        S    Oct16   0:55 ./eggdrop conf.ShellCenter
nescau   15848  0.0  0.1 12508 2816 ?        S    Oct16   0:05 ./eggdrop conf.Brigadeiro
orpheus  15983  0.0  0.2 13188 3664 ?        S    Oct16   0:03 ./eggdrop -m RebeldeS.conf
orpheus  17412  0.0  0.2 13172 3700 ?        S    Oct16   0:05 ./eggdrop -m Rebelde.conf
nicole   21748  0.0  0.1 37716 1780 ?        S    Oct16   0:00 ./sc_serv
thiagoc  20284  0.0  0.2  5604 4348 ?        Ss   Oct17   0:01 ./ircd
thiagoc  22523  0.0  0.3  7320 5728 ?        S    Oct17   0:01 ./services
niccole  15446  0.0  0.1 12356 2720 ?        S    Oct17   0:05 ./eggdrop conf.Imortality
niccole  15449  0.0  0.1 12476 2744 ?        S    Oct17   0:06 ./eggdrop conf.CaNaL_LeSbIaN
erasmov  13432  0.0  0.1 12492 2760 ?        S    00:13   0:02 ./eggdrop conf.PibCaxias
z80       7260  0.0  0.0  2496 1380 ?        S    09:44   0:19 ./psybnc psybnc.conf
juniorr  28405  0.0  0.1 12376 2600 ?        S    13:00   0:02 ./eggdrop lostzilla.conf
juniorr  28424  0.0  0.1 12368 2664 ?        S    13:01   0:00 ./eggdrop lost4.conf
root      7689  0.0  0.3  6868 5412 ?        Ss   14:49   0:00 /usr/bin/perl
/usr/local/webmin/miniserv.pl /etc/webmin/miniserv.conf
corog     9986  0.0  0.0  2492 1452 ?        S    16:58   0:02 ./psybnc
root      4337  0.0  0.0  2492  840 ?        Rs   20:57   0:00 ps aux
```

As you can see, there are only 45 processes running on this VPS, on vzlist it shows 84. The processes that are running on this VPS are not so consuming that his 560MB of virtual memory shouldn't suffice.

Here's his user_beancounters:

```
[root@server ~]# vzctl exec 114 cat /proc/user_beancounters
Version: 2.5
       uid  resource           held    maxheld    barrier      limit    failcnt
       114: kmemsize        3392992    5070267    5682216    6250437          0
```

```
lockedpages          0        0      277      277        0
privvmpages     103900   140683   125454   140599    31769
shmpages             0     3632    22145    22145        0
dummy                0        0        0        0        0
numproc             85      125      266      266        0
physpages        18019    33204        0 2147483647        0
vmguarpages          0        0    36909 2147483647        0
oomguarpages     18101    33284    36909 2147483647        0
numtcpsock          85      143      266      266        0
numflock             2        6      220      242        0
numpty               0        4       26       26        0
numsiginfo           1       14     1024     1024        0
tcpsndbuf        82436   841492   804536  1894072 32457829
tcprcvbuf            0   404016   804536  1894072        0
othersockbuf     75316   122104   402268  1491804        0
dgramrcvbuf          0    22280   402268   402268        0
numothersock        46       92      266      266        0
dcachesize      370336   484575  1234765  1271808        0
numfile           1305     1724     2208     2208        0
dummy                0        0        0        0        0
dummy                0        0        0        0        0
dummy                0        0        0        0        0
numiptent           10       10       66       66        0
```

Is it possible that OpenVZ is mixing processes from one VPS to another by mistake?

What should I do to fix it?

Thanks in advance,

Eugenio Pacheco

Subject: Re: Processes are wrong
Posted by Vasily Tarasov on Thu, 19 Oct 2006 05:57:22 GMT
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`ps aux` does not show threads. `ps -eLf` does it.

Subject: Re: Processes are wrong
Posted by eugeniopacheco on Thu, 19 Oct 2006 10:41:31 GMT
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Hi,

Thanks a lot for your answer. Now it makes sense. I tried ps -eLf and it showed all threads and I counted them up to be the same shown in vzlist.

But isn't the memory being accounted wrong? With only a few eggdrops, one ircd, one shoutcast and one ircservices it is using more than half of the memory.. Currently it is using 341MB out of 560MB

```
[root@server ~]# vzmemcheck -Av
Output values in Mbytes
veid       LowMem  LowMem     RAM MemSwap MemSwap   Alloc   Alloc   Alloc
           util  commit    util    util  commit    util  commit   limit
101          2.15   11.38   60.16   61.61  155.56  193.90  155.56  560.59
102          0.29   11.38    4.00    4.01  155.56    4.89  155.56  560.59
103          2.52   11.38   35.34   36.93  155.56  400.32  155.56  560.59
104          1.60    4.25   33.48   33.49   28.25  165.56   28.25  213.52
105          1.01   34.14   15.79   15.89  934.16   17.73  934.16 1063.22
106          1.01   11.38   32.80   33.05  155.56  167.24  155.56  560.59
107          0.28   11.38    4.00    4.00  155.56    4.91  155.56  560.59
108          3.43   11.38   90.49   93.75  155.56  398.09  155.56  560.59
109          0.29   11.38    4.02    4.10  155.56    4.97  155.56  560.59
110          1.78   11.38   30.87   31.31  155.56  105.86  155.56  560.59
111          0.32   11.38    6.99    7.19  155.56    8.73  155.56  560.59
114          2.80   11.38   63.67   64.03  155.56  341.53  155.56  560.59
 ------------------------------------------------------------ -------------
Summary:     17.49  152.19  381.61  389.36 2517.96 1813.73 2517.96 6882.69
        325.00  325.00 1499.00 4700.00 4700.00 4700.00 4700.00 4700.00
```

And here's a ps aux and ps -eLf:

```
[root@server ~]# vzctl exec 114 ps aux
USER       PID %CPU %MEM    VSZ  RSS TTY      STAT START    TIME COMMAND
root         1  0.0  0.0   1504  488 ?        Ss   Oct07    0:11 init [2]
nobody    9347  0.0  0.0   2340 1152 ?        Ss   Oct07    0:00 proftpd: (accepting connections)
root      9489  0.0  0.0   1560  596 ?        Ss   Oct07    0:30 /sbin/syslogd
root      9578  0.0  0.0   3468 1532 ?        Ss   Oct07    0:57 /usr/sbin/sshd
daemon    9589  0.0  0.0   1684  628 ?        Ss   Oct07    0:00 /usr/sbin/atd
root      9598  0.0  0.0   1756  712 ?        Ss   Oct07    0:00 /usr/sbin/cron
juninho  11994  0.0  0.1  40444 2568 ?        S    Oct12    0:01 ./sc_serv
dj       12179  0.0  0.5  26760 8892 ?        S    Oct12    0:00 ./dj juninho.conf
nicole   21748  0.0  0.1  37716 1744 ?        S    Oct16    0:00 ./sc_serv
thiagoc  20284  0.0  0.2   5604 4348 ?        Ss   Oct17    0:01 ./ircd
thiagoc  22523  0.0  0.3   7320 5748 ?        S    Oct17    0:01 ./services
z80       7260  0.0  0.0   2616 1476 ?        S    Oct18    0:39 ./psybnc psybnc.conf
root      7689  0.0  0.3   6868 5412 ?        Ss   Oct18    0:00 /usr/bin/perl
/usr/local/webmin/miniserv.pl /etc/webmin/miniserv.conf
corog     9986  0.0  0.0   2492 1452 ?        S    Oct18    0:03 ./psybnc
nescau    9631  0.0  0.4  16812 7136 ?        S    Oct18    0:06 ./eggdrop conf.ShellCenter
nescau    9635  0.0  0.1  12368 2600 ?        S    Oct18    0:00 ./eggdrop conf.Brigadeiro
```

```
erasmov  15592  0.0  0.1 12648 3012 ?        S    Oct18   0:00 ./eggdrop conf.Caxias
erasmov  15606  0.0  0.1 12360 2688 ?        S    Oct18   0:00 ./eggdrop conf.Info_Caxias
erasmov  15617  0.0  0.2 13408 3796 ?        S    Oct18   0:01 ./eggdrop conf.wall
erasmov  15634  0.0  0.1 12488 2768 ?        S    Oct18   0:00 ./eggdrop conf.PibCaxias
hostage  19692  0.0  0.1 12492 2720 ?        S    Oct18   0:13 ./eggdrop conf.Hostage
hostage  19695  0.0  0.1 12360 2604 ?        S    Oct18   0:07 ./eggdrop conf.WebHost
hostage  19698  0.0  0.1 12360 2608 ?        S    Oct18   0:09 ./eggdrop conf.AgitoJovem
hostage  19701  0.0  0.1 12360 2612 ?        S    Oct18   0:08 ./eggdrop conf.http
guthin   24388  0.0  0.1 12236 2792 ?        S    00:48   0:02 ./eggdrop flamengo.conf
guthin   24397  0.0  0.1 12220 2644 ?        S    00:48   0:00 ./eggdrop niteroi.conf
guthin   24410  0.0  0.1 12220 2600 ?        S    00:49   0:00 ./eggdrop -m teresina.conf
orpheus  25798  0.0  0.2 13052 3472 ?        S    00:55   0:00 ./eggdrop Rebelde.conf
orpheus  25808  0.0  0.2 12948 3316 ?        S    00:56   0:00 ./eggdrop RebeldeS.conf
niccole  28316  0.0  0.1 12360 2704 ?        S    01:18   0:00 ./eggdrop conf.Imortality
niccole  28319  0.0  0.1 12480 2716 ?        S    01:18   0:00 ./eggdrop conf.CaNaL_LeSbIaN
canalir  29916  0.0  0.2 12920 3260 ?        S    01:26   0:00 ./eggdrop conf.CanaL_IRCplugado
canalir  29919  0.0  0.1 12488 2752 ?        S    01:26   0:00 ./eggdrop
conf.ANDRE_DOS_ANJOS_OFFline
fifabra   5449  0.0  0.1 12360 2600 ?        S    07:20   0:00 ./eggdrop conf.FBR
fifabra   5452  0.0  0.1 12364 2668 ?        S    07:20   0:00 ./eggdrop conf.FBRASIL
fifabra   5458  0.0  0.1 12232 2604 ?        S    07:20   0:00 ./eggdrop conf.FIFAMANIA
fifabra   5461  0.0  0.1 12364 2672 ?        S    07:20   0:00 ./eggdrop conf.PARCEIROS
root     14591  0.0  0.0  2492  840 ?        Rs   08:36   0:00 ps aux


[root@server ~]# vzctl exec 114 ps -eLf
UID        PID  PPID   LWP  C NLWP STIME TTY          TIME CMD
root         1     0     1  0    1 Oct07 ?        00:00:11 init [2]
nobody    9347     1  9347  0    1 Oct07 ?        00:00:00 proftpd: (accepting connections)
root      9489     1  9489  0    1 Oct07 ?        00:00:30 /sbin/syslogd
root      9578     1  9578  0    1 Oct07 ?        00:00:57 /usr/sbin/sshd
daemon    9589     1  9589  0    1 Oct07 ?        00:00:00 /usr/sbin/atd
root      9598     1  9598  0    1 Oct07 ?        00:00:00 /usr/sbin/cron
juninho  11994     1 11994  0    5 Oct12 ?        00:00:01 ./sc_serv
juninho  11994     1 11995  0    5 Oct12 ?        00:00:40 ./sc_serv
juninho  11994     1 11996  0    5 Oct12 ?        00:03:50 ./sc_serv
juninho  11994     1 11997  0    5 Oct12 ?        00:00:31 ./sc_serv
juninho  11994     1 11998  0    5 Oct12 ?        00:00:00 ./sc_serv
dj       12179     1 12179  0    3 Oct12 ?        00:00:00 ./dj juninho.conf
dj       12179     1 12180  4    3 Oct12 ?        06:09:31 ./dj juninho.conf
dj       12179     1 12181  0    3 Oct12 ?        00:00:02 ./dj juninho.conf
nicole   21748     1 21748  0    5 Oct16 ?        00:00:00 ./sc_serv
nicole   21748     1 21749  0    5 Oct16 ?        00:00:12 ./sc_serv
nicole   21748     1 21750  0    5 Oct16 ?        00:01:18 ./sc_serv
nicole   21748     1 21751  0    5 Oct16 ?        00:00:12 ./sc_serv
nicole   21748     1 21752  0    5 Oct16 ?        00:00:00 ./sc_serv
thiagoc  20284     1 20284  0    1 Oct17 ?        00:00:01 ./ircd
thiagoc  22523     1 22523  0    1 Oct17 ?        00:00:01 ./services
```

```
z80       7260     1  7260  0    1 Oct18 ?        00:00:39 ./psybnc psybnc.conf
root      7689     1  7689  0    1 Oct18 ?        00:00:00 /usr/bin/perl /usr/local/webmin/miniserv.pl
/etc/webmin/miniserv.conf
corog     9986     1  9986  0    1 Oct18 ?        00:00:03 ./psybnc
nescau    9631     1  9631  0    2 Oct18 ?        00:00:06 ./eggdrop conf.ShellCenter
nescau    9631     1  9632  0    2 Oct18 ?        00:00:00 ./eggdrop conf.ShellCenter
nescau    9635     1  9635  0    2 Oct18 ?        00:00:00 ./eggdrop conf.Brigadeiro
nescau    9635     1  9636  0    2 Oct18 ?        00:00:00 ./eggdrop conf.Brigadeiro
erasmov  15592     1 15592  0    2 Oct18 ?        00:00:00 ./eggdrop conf.Caxias
erasmov  15592     1 15593  0    2 Oct18 ?        00:00:00 ./eggdrop conf.Caxias
erasmov  15606     1 15606  0    2 Oct18 ?        00:00:00 ./eggdrop conf.Info_Caxias
erasmov  15606     1 15607  0    2 Oct18 ?        00:00:00 ./eggdrop conf.Info_Caxias
erasmov  15617     1 15617  0    2 Oct18 ?        00:00:01 ./eggdrop conf.wall
erasmov  15617     1 15618  0    2 Oct18 ?        00:00:00 ./eggdrop conf.wall
erasmov  15634     1 15634  0    2 Oct18 ?        00:00:00 ./eggdrop conf.PibCaxias
erasmov  15634     1 15635  0    2 Oct18 ?        00:00:00 ./eggdrop conf.PibCaxias
hostage  19692     1 19692  0    2 Oct18 ?        00:00:13 ./eggdrop conf.Hostage
hostage  19692     1 19693  0    2 Oct18 ?        00:00:01 ./eggdrop conf.Hostage
hostage  19695     1 19695  0    2 Oct18 ?        00:00:07 ./eggdrop conf.WebHost
hostage  19695     1 19696  0    2 Oct18 ?        00:00:00 ./eggdrop conf.WebHost
hostage  19698     1 19698  0    2 Oct18 ?        00:00:09 ./eggdrop conf.AgitoJovem
hostage  19698     1 19699  0    2 Oct18 ?        00:00:00 ./eggdrop conf.AgitoJovem
hostage  19701     1 19701  0    2 Oct18 ?        00:00:08 ./eggdrop conf.http
hostage  19701     1 19702  0    2 Oct18 ?        00:00:00 ./eggdrop conf.http
guthin   24388     1 24388  0    2 00:48 ?        00:00:02 ./eggdrop flamengo.conf
guthin   24388     1 24389  0    2 00:48 ?        00:00:00 ./eggdrop flamengo.conf
guthin   24397     1 24397  0    2 00:48 ?        00:00:00 ./eggdrop niteroi.conf
guthin   24397     1 24398  0    2 00:48 ?        00:00:00 ./eggdrop niteroi.conf
guthin   24410     1 24410  0    2 00:49 ?        00:00:00 ./eggdrop -m teresina.conf
guthin   24410     1 24411  0    2 00:49 ?        00:00:00 ./eggdrop -m teresina.conf
orpheus  25798     1 25798  0    2 00:55 ?        00:00:00 ./eggdrop Rebelde.conf
orpheus  25798     1 25799  0    2 00:55 ?        00:00:00 ./eggdrop Rebelde.conf
orpheus  25808     1 25808  0    2 00:56 ?        00:00:00 ./eggdrop RebeldeS.conf
orpheus  25808     1 25809  0    2 00:56 ?        00:00:00 ./eggdrop RebeldeS.conf
niccole  28316     1 28316  0    2 01:18 ?        00:00:00 ./eggdrop conf.Imortality
niccole  28316     1 28317  0    2 01:18 ?        00:00:00 ./eggdrop conf.Imortality
niccole  28319     1 28319  0    2 01:18 ?        00:00:00 ./eggdrop conf.CaNaL_LeSbIaN
niccole  28319     1 28320  0    2 01:18 ?        00:00:00 ./eggdrop conf.CaNaL_LeSbIaN
canalir  29916     1 29916  0    2 01:26 ?        00:00:00 ./eggdrop conf.CanaL_IRCplugado
canalir  29916     1 29917  0    2 01:26 ?        00:00:00 ./eggdrop conf.CanaL_IRCplugado
canalir  29919     1 29919  0    2 01:26 ?        00:00:00 ./eggdrop
conf.ANDRE_DOS_ANJOS_OFFline
canalir  29919     1 29920  0    2 01:26 ?        00:00:00 ./eggdrop
conf.ANDRE_DOS_ANJOS_OFFline
fifabra   5449     1  5449  0    2 07:20 ?        00:00:00 ./eggdrop conf.FBR
fifabra   5449     1  5450  0    2 07:20 ?        00:00:00 ./eggdrop conf.FBR
fifabra   5452     1  5452  0    2 07:20 ?        00:00:00 ./eggdrop conf.FBRASIL
fifabra   5452     1  5453  0    2 07:20 ?        00:00:00 ./eggdrop conf.FBRASIL
```

```
fifabra   5458     1  5458  0    2 07:20 ?        00:00:00 ./eggdrop conf.FIFAMANIA
fifabra   5458     1  5459  0    2 07:20 ?        00:00:00 ./eggdrop conf.FIFAMANIA
fifabra   5461     1  5461  0    2 07:20 ?        00:00:00 ./eggdrop conf.PARCEIROS
fifabra   5461     1  5462  0    2 07:20 ?        00:00:00 ./eggdrop conf.PARCEIROS
root     14875     1 14875  0    1 08:39 ?        00:00:00 ps -eLf
```

Is there a way to check how much privvmpages each process is using to identify which one is using too much memory?

Regards,

Eugenio Pacheco

Subject: Re: Processes are wrong
Posted by Vasily Tarasov on Thu, 19 Oct 2006 11:48:25 GMT
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As far as I undestand, you're afraid of this number:

114 2.80 11.38 63.67 64.03 155.56 341.53 155.56 560.59

If so, then everything is ok. This number doesn't show how much memory this VE use! This number equals how much memory VE in question allocated!

Usually applications allocate much memory but use only ~25% of it.
You can read a bit more about it on this wiki page:
http://wiki.openvz.org/Privvmpages#privvmpages

HTH,
vass.+