
Subject: OpenVZ and a better administration of memory with zope server

Posted by [gaper](#) on Sat, 04 Aug 2007 19:16:26 GMT

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I have 3 virtual machines running with openvz, one of them have running zope (a server applications in python <http://www.zope.org/>), but sometimes zope kills itself with the load of work, when I check/proc/user_beancounters I see these mistakes (I readed that the failcnt column should have only zero values):

```
105: kmemsize      605135  1161764  59163173  62277025      0
    lockedpages    0        0    2048    2048    0
    privvmpages    889     8507   237764   237764    0
    shmpages       1        1  102400  102400    0
    dummy          0        0     0     0     0
    numproc        7       19     65     65     0
    physpages      474     1534     0  2147483647    0
    vmguarpages    0        0   237764  2147483647    0
    oomguarpages   474     1534   209715  2147483647    0
    numtcpsock     27      27     80     80     0
    numflock       1        2    100    110     0
    numpty         0        0     16     16     0
    numsiginfo     0        2    256    256     0
    tcpsndbuf      241056     0  5368709  10737418    0
    tcprcvbuf      442368     0  5368709  10737418    0
    othersockbuf   51336    56576  5368709  10737418    0
    dgramrcvbuf    0        0  2684354  5368709    0
    numothersock   24       36     80     80     0
    dcachesize     0        0  16106127  16106127    0
    numfile        192     376    2048    2048    0
    dummy          0        0     0     0     0
    dummy          0        0     0     0     0
    dummy          0        0     0     0     0
    numiptent      29      83    128    128     0
104: kmemsize      1434199  1942392  59163173  62277025      0
    lockedpages    0        0    2048    2048    0
    privvmpages    33873   41349   237764   237764    0
    shmpages       1        1  102400  102400    0
    dummy          0        0     0     0     0
    numproc        27      39     65     65     0
    physpages      6034    7126     0  2147483647    0
    vmguarpages    0        0   237764  2147483647    0
    oomguarpages   6034    7126   209715  2147483647    0
    numtcpsock     30      30     80     80     0
    numflock       4        5    100    110     0
    numpty         0        0     16     16     0
    numsiginfo     0        2    256    256     0
    tcpsndbuf      267840     0  5368709  10737418    0
    tcprcvbuf      491520     0  5368709  10737418    0
```

othersockbuf	53568	63736	5368709	10737418	0
dgramrcvbuf	0	0	2684354	5368709	0
numothersock	26	34	80	80	0
dcachesize	0	0	16106127	16106127	0
numfile	609	788	2048	2048	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
numiptent	91	91	128	128	0
106: kmemsize	1284733	1998938	59163173	62277025	0
lockedpages	0	0	2048	2048	0
privvmpages	60973	69072	237764	237764	247630
shmpages	0	1008	102400	102400	0
dummy	0	0	0	0	0
numproc	17	32	65	65	0
physpages	47432	49131	0	2147483647	0
vmguarpages	0	0	237764	2147483647	0
oomguarpages	47432	49131	209715	2147483647	0
numtcpsock	30	52	80	80	0
numflock	2	8	100	110	0
numpty	0	3	16	16	0
numsiginfo	0	14	256	256	0
tcpsndbuf	370512	814736	5368709	10737418	9006
tcprcvbuf	522768	878568	5368709	10737418	99
othersockbuf	51336	58032	5368709	10737418	0
dgramrcvbuf	0	8376	2684354	5368709	0
numothersock	24	33	80	80	0
dcachesize	0	0	16106127	16106127	0
numfile	496	833	2048	2048	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
numiptent	75	91	128	128	0

THE content of my configuration file (/etc/vz/conf/106.conf) is:

ONBOOT="yes"

UBC parameters (in form of barrier:limit)

Primary parameters

AVNUMPROC="64:64"

#AVNUMPROC="40:40"

#NUMPROC="65:65"

NUMPROC="80:80"

#NUMTCP SOCK="80:80"

NUMTCP SOCK="128:128"

#NUMOTHERSOCK="80:80"

NUMOTHERSOCK="128:128"

```
VMGUARPAGES="237764:2147483647"
# Secondary parameters
KMEMSIZE="59163173:62277025"
TCPSNDBUF="5368709:10737418"
TCPRCVBUF="5368709:10737418"
OTHERSOCKBUF="5368709:10737418"
DGRAMRCVBUF="2684354:5368709"
OOMGUARPAGES="209715:2147483647"
# Auxiliary parameters
LOCKEDPAGES="2048:2048"
SHMPAGES="102400:102400"
PRIVVMPAGES="237764:237764"
NUMFILE="2048:2048"
#NUMFLOCK="100:110"
NUMFLOCK="128:128"

#NUMPTY="16:16"
NUMPTY="8:8"
#NUMSIGINFO="256:256"
NUMSIGINFO="128:128"
DCACHESIZE="16106127:16106127"

PHYSPAGES="0:2147483647"
#NUMIPTENT="128:128"
NUMIPTENT="192:192"

# Disk quota parameters (in form of softlimit:hardlimit)
DISKSPACE="1048576:1153434"
DISKINODES="200000:220000"
QUOTATIME="0"

# CPU fair sheduler parameter
CPUUNITS="30027"
VE_ROOT="/var/lib/vz/root/$VEID"
VE_PRIVATE="/var/lib/vz/private/$VEID"
OSTEMPLATE="debian-4.0-i386-minimal"
ORIGIN_SAMPLE="vps.basic"
HOSTNAME="zope.jornada.com.mx"
IP_ADDRESS="132.248.10.14"
NAMESERVER="132.248.204.1"
IPTABLES="iptables_nat iptable_filter"
```

This configuration its based in this one:

<http://wiki.vpslink.com/index.php?title=Vpslink5>

My hardware node have 3gb of ram and I have destined 1gb for the virtual enviroment 106 with zope. ¿ Guys can you give me a hand please?

Subject: Re: OpenVZ and a better administration of memory with zope server

Posted by [rickb](#) on Sat, 04 Aug 2007 20:19:41 GMT

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you should increase the ubc metrics that have failures. increase each failed ubc by 50% until you can operate your applications without failures. this will yield a config that suits your application memory requirements.

Rick
