
Subject: RAM and Swap misconfigured? :S
Posted by [silentninja](#) on Fri, 08 Feb 2008 14:08:09 GMT
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I've noticed that on our VPS server which has 2gb of ram and 4gb of swap memory, it seems to give unlimited ram memory to all vps.. or maybe I am wrong.

Here's the 97.conf file options (where 97 is the ID from a vps):

```
VERSION="2"
ONBOOT="yes"

NUMPROC="400"
NUMTCPSOCK="500"
NUMOTHERSOCK="500"
VMGUARPAGES="102400"
KMEMSIZE="16384000:18022400"
TCPSNDBUF="5365760:10485760"
TCPRCVBUF="5365760:10485760"
OTHERSOCKBUF="1503232:4063232"
DGRAMRCVBUF="262144"
OOMGUARPAGES="102400"
LOCKEDPAGES="4096"
SHMPAGES="131072"
PRIVVMPAGES="262144:292912"
NUMFILE="8192"
NUMFLOCK="200:220"
NUMPTY="64"
NUMSIGINFO="512"
DCACHESIZE="4194304:4317184"
PHYSPPAGES="9223372036854775807"
NUMIPTENT="300"

DISKSPACE="20000000:25000000"
DISKINODES="7000000:7200000"
QUOTATIME="0"

OFFLINE_MANAGEMENT="yes"
VE_ROOT="/vz/root/$VEID"
VE_PRIVATE="/vz/private/$VEID"
OSTEMPLATE="centos-4-i386-default"
ORIGIN_SAMPLE="vps.basic"
IP_ADDRESS="xxx.xxx.xxx.xxx"
CPULIMIT="21"
QUOTAUGIDLIMIT="1000"
HOSTNAME="xxx.xxxxxxxx.xxx"
```

(I've edited the HOSTNAME and IP_ADDRESS for privacy, all other stuff has been coppedasted).

My Idea is that the VPS has about 256mb of total RAM and some Swap too (ideally 512mb, but i don't know if it's ok on the conf).

Although if you enter the vps and execute a "top" command, it still shows you 2gb of ram and 4gb of swap.. it's like it's not being limited properly, although if I give the vps less memory it shows me a fork issue, so it seems to work.. mostly.

Is there any way to fix this so the TOP shows me only the ram and swap assigned, and also, is my conf file ok to limit my server to 256mb ram and 512mb swap?

Subject: Re: RAM and Swap misconfigured? :S
Posted by [maratrus](#) on Sat, 09 Feb 2008 22:02:54 GMT
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Hi,

Quote: limit my server to 256mb ram and 512mb swap
actually you cannot divide virtual memory which is assigned to VE among SWAP and ram. Please look at

http://forum.openvz.org/index.php?t=msg&goto=24436&&srch=swap+inside+VE#msg_24436

Quote: Is there any way to fix this so the TOP shows me only the ram
May be the reason is "meminfo" parameter? Please see "man vzctl"

Subject: Re: RAM and Swap misconfigured? :S
Posted by [silentninja](#) on Sat, 09 Feb 2008 22:12:08 GMT
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maratrus wrote on Sat, 09 February 2008 19:02
May be the reason is "meminfo" parameter? Please see "man vzctl"

Ok, I've understood your first comment about the swap memory, although I was checking the "man vzctl" page and I didn't understand really what you meant with meminfo, is there any setting that allows me to show only the 256mb of RAM corresponding to his VE on the top command with the meminfo param.?

Subject: Re: RAM and Swap misconfigured? :S
Posted by [maratrus](#) on Sun, 10 Feb 2008 07:21:40 GMT
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Hi,

It's just an assumption
from "man vzctl":

Quote:Memory output parameters

This parameter control output of /proc/meminfo inside a VE

--meminfo none

No /proc/meminfo virtualization (the same as on host system).

--meminfo mode:value

Configure total memory output in a VE. Free memory is evaluated accordingly to the mode being set.

You can use the following modes for mode:

pages:value - sets total memory in pages

privvmpages:value - sets total memory as privvmpages * value

Subject: Re: RAM and Swap misconfigured? :S

Posted by [silentninja](#) on Sun, 10 Feb 2008 16:12:01 GMT

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I've already read that.. I said that I didn't understand what it does.

What should I configure to meminfo.. meminfo=256M ?

Wouldn't it show me 256m / all ram used by all vps? it'd show me always the server using all of the memory available.

Subject: Re: RAM and Swap misconfigured? :S

Posted by [maratrus](#) on Mon, 11 Feb 2008 13:59:45 GMT

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Hi,

vzctl <CT_ID> set --meminfo privvmpages:1 --save

Subject: Re: RAM and Swap misconfigured? :S

Posted by [silentninja](#) on Mon, 11 Feb 2008 16:22:10 GMT

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maratrus wrote on Mon, 11 February 2008 10:59Hi,
vzctl <CT_ID> set --meminfo privvmpages:1 --save

The command is wrong, I've done:

vzctl set 97 --meminfo privvmpages:1 --save

And now the top shows me 0k of swap and 1024mb ram. Could it be that the swap pages has been set up for 768mb ?

Subject: Re: RAM and Swap misconfigured? :S
Posted by [maratrus](#) on Mon, 11 Feb 2008 16:55:21 GMT
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Hi,

I'm sorry but I cannot understand you:

Quote:The command is wrong

Quote:And now the top shows me 0k of swap and 1024mb ram.

Sure, if PRIVVMPAGES="262144:292912" that values are expected.
Please, look at http://wiki.openvz.org/UBC_parameters

Subject: Re: RAM and Swap misconfigured? :S
Posted by [silentninja](#) on Mon, 11 Feb 2008 17:46:31 GMT
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maratrus wrote on Mon, 11 February 2008 13:55Sure, if PRIVVMPAGES="262144:292912" that values are expected.
Please, look at http://wiki.openvz.org/UBC_parameters

Oh.. I see, it's pages not bytes xP

Although I've configured my VPS based the third example from the UBC, here:
http://wiki.openvz.org/UBC_configuration_examples_table

And it says the server will have 250mb of user memory with that privvmpages on set, is there any reason about it?

Subject: Re: RAM and Swap misconfigured? :S
Posted by [xemul](#) on Fri, 15 Feb 2008 09:09:24 GMT
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Quote:the server will have 250mb of user memory with that privvmpages on set, is there any reason about it

privvmpages limit is smth like "beancounter will not block you mmap and brk calls till you hit this limit with your private mappings lengths". In other words - these limits do not

1. provide any guarantee for memory allocation
 2. provide a strong limit for the memory consumption of your VE
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