Subject: Strange Memory Problem
Posted by ziceva on Tue, 19 Jan 2010 11:55:28 GMT
View Forum Message <> Reply to Message

Hy,

I have a rather strange problem with a OpenVPS server ...
The HN is a Core 2 Duo E4500 @2.20 GHz with 3Gb of RAM ...
I've created a VPS with 1Gb of RAM and installed cPanel inside it ... and everything went smooth ... I even run a unixbench, just to see how would it perform ...
I've put a site on this server (ok, it is a rather heavy application... but the 1Gb i reserved for it should be enough) ... and that also worked fine for a few hours ... than the problem:

Now my apache server complains about not having enough memory:

/usr/bin/php: error while loading shared libraries: libXdmcp.so.6: failed to map segment from shared object: Cannot allocate memory

But this is not suported by anything I see on that server/VPS...

/proc/user_beancounters
Version: 2.5
uid resource held maxheld barrier limit failcnt
101:kmemsize 8234055 10406978 67108864 73819750 0
lockedpages 0 0 256 256 0
privvmpages 61470 90406 262144 288358 0
shmpages 23 23 21504 21504 0
dummy 0 0 0 0 0
numproc 42 57 500 500 0
physpages 27087 55108 0 MAX UINT 0
vmguarpages 0 0 262144 MAX UINT 0
oomguarpages 27087 55108 262144 MAX UINT 0
numtcpsock 24 49 750 750 0
numflock 1 5 188 206 0
numpty 1 2 16 16 0
numsiginfo 0 11 256 256 0
tcpsndbuf 420096 630144 3440640 5406720 0
tcprcvbuf 393216 543296 3440640 5406720 0
othersockbuf 67744 219792 1126080 2097152 0
dgramrcvbuf 0 8472 262144 262144 0
numothersock 35 40 750 750 0
dcachesize 0 0 16777216 19293798 0
numfile 1318 1572 9312 9312 0
dummy 0 0 0 0 0
dummy 0 0 0 0 0
dummy 0 0 0 0 0
numiptent 29 29 128 128 0

```
free -m
     total       used       free     shared    buffers     cached
Mem: 1024         240        783      0         0          0
-/+ buffers/cache:240        783
Swap:             0          0        0
```

and on the HN:

```
free -m
     total       used     free   shared    buffers     cached
Mem: 3011         1514     1496   0         186         828
-/+ buffers/cache:499      2511
Swap:             2732     0      2732
```

On the HN there is nothing else running ... on the VPS I have:

```
init-+-cpanellogd
     |-cpsrvd-ssl
     |-crond
     |-dbus-daemon
     |-dovecot-+-dovecot-auth
     |         |-2*[imap-login]
     |         `-2*[pop3-login]
     |-exim
     |-httpd---12*[httpd]
     |-mysqld_safe---mysqld---3*[{mysqld}]
     |-pure-authd
     |-pure-ftpd
     |-queueprocd
     |-snmpd---{snmpd}
     |-spamd---spamd
     |-sshd
     |-tailwatchd
     `-vzctl---bash---pstree
```

I really don't get what is happening ... everything else is working fine, my apache server is serving static pages just fine ... At first I thought it was a apache/php thing so I recompiled ... no luck there ... (restarting the HN/VPS did not help either)

Thank you

PS Both the HN and the VPS have CentOS 5 X86_64

Subject: Re: Strange Memory Problem
Posted by maratrus on Fri, 22 Jan 2010 15:02:35 GMT
View Forum Message <> Reply to Message

Hello,

let me ask you a question, please?
Did you restart a VE after the problem had appeared?
The point I'm driving at is that failcounters (the last column of /proc/user_beancounters output) are cleared when a VE is being restarted so you might have missed that by chance. Your problem is pretty much looks like a resource shortage inside a VE and should be revealed via /proc/user_beancounters output.
Anyway (to make all suggestions within a single post) could you please increase privvmpages parameter to check that it is not a reason?

Subject: Re: Strange Memory Problem
Posted by ziceva on Fri, 22 Jan 2010 16:02:12 GMT
View Forum Message <> Reply to Message

Hy,

Thank you for your reply.
I stopped invetigating the VPS solution for now (will probably start again in a few weeks 'cause it looks very promising).

Yes, I restarted the VPS (and the HN) ... but this only explains why the the failcount are all 0 ... it does not explain why my apache complains about not having memory (after restart) although all the counters and barriers in user_beancounters say otherwise ...

Another interesting thing is that only apache complains, and only if php is used as CGI (I am using suPHP on all my servers, so I need to compile PHP as a CGI program). If I use it as a DSO, it works ...

I will be doing a fresh install of the HN and the VPS and try everithing all over again (and start with a less heavy application).