Subject: OpenVZ HWNODE becomes unresponsive
Posted by defiancenl on Thu, 03 Dec 2009 09:52:51 GMT

I have a couple of HNodes running openvz.
One of these nodes has a weird issue, wich i cannot seem to debug/resolve.
Let me first list the hardware and relevant info

Kernel : 2.6.24-23-openvz

CPU : Intel C2Q Q6600

MEM : 4GB DDR2

HDD : 160GB

All in all this node runs fine, however one time per 3 weeks/month the node becomes
unresponsive. And cannot be reached with ssh.(also the vz's are unresponsive and cannot be
reached)
All that is left is to boot it using the APC.
After reboot the server is ok, and runs fine for another 3weeks/month.

After a reboot i start digging trough the logs but nowhere, and i mean nowhere is there a hint why
it became unresponsive

/var/log/messages

Dec 2 21:25:35 hn01 -- MARK --
Dec 2 21:45:35 hn01 -- MARK --
Dec 2 21:57:40 hn01 syslogd 1.5.0#1ubuntu1: restart.
Dec 2 21:57:40 hn01 kernel: Inspecting /boot/System.map-2.6.24-23-openvz
Dec 2 21:57:40 hn01 kernel: Loaded 29198 symbols from /boot/System.map-2.6.24-23-openvz.

21:57 i booted the server via apc

in no single log file i can see why the server became unrepsonsive.

Can someone help me out and tell me how to best debug this server, or does anyone know this
behaviour?

I am not oversetting the limits on the hwnode

```
root@hn01:~# vzmemcheck -v
Output values in %
veid     LowMem LowMem    RAM MemSwap MemSwap  Alloc  Alloc  Alloc
         util commit   util   util commit   util commit  limit
101       1.04 105.00   1.76   0.90  35.41   1.00  35.41  38.50
104       2.13  35.00   4.93   2.54  32.39   4.66  32.39  35.47
102       0.82  52.50   1.07   0.55  33.14   2.24  33.14  36.23
--------------------------------------------------------------------------
Summary:  4.00 192.50   7.75   3.99 100.94   7.90 100.94 110.20
```

I see another topic on this forum with the exact same problem.
Can this be a issue in the kernel?

Subject: Re: OpenVZ HWNODE becomes unresponsive
Posted by maratrus on Fri, 04 Dec 2009 14:15:39 GMT
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Hi,

- the kernel that you have in use is quite old. Is it possible to use RHEL5 based kernel instead?
- nevertheless, it can be the kernel problem. Is it possible to install serial console to be able to
gather all logs
http://wiki.openvz.org/Remote_console_setup
When the system is locked try Alt-Sysrq-*
- p (twice the number of CPUs)
- w (several times)
- t (for all processes' calltraces. Please, note this is a time consuming operation.)

Please, don't hesitate to file a new bug report.
http://bugzilla.openvz.org/
It is the best way to have your problem fixed.

Subject: Re: OpenVZ HWNODE becomes unresponsive
Posted by defiancenl on Fri, 04 Dec 2009 14:51:08 GMT
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You say the kernel is quite old.....
However if i look at the stable RHEL 5 branche the newest kernel is : 2.6.18-164
This looks older to me ?

Or are you suggesting that i use 2.6.27-briullov.1 kernel?

Furthermore, i use the kernel on hn01 on all nodes, and the problems on hn01 are not there on

the other nodes.
I will look into remote logging to debug this issue.

Subject: Re: OpenVZ HWNODE becomes unresponsive
Posted by maratrus on Fri, 04 Dec 2009 15:06:57 GMT
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Hi,

Quote:
You say the kernel is quite old.....
However if i look at the stable RHEL 5 branche the newest kernel is : 2.6.18-164
This looks older to me ?

let me explain what I had in mind.
RHEL5 kernel is based on 2.6.18 kernel which is of course older than 2.6.24 but that kernel is constantly being improved by Red Hat and OpenVZ teams. Many security fixes are applied, different drivers are included in that kernel. 2.6.18 is a stable and maintained branch. That is why I suggested using it instead of 2.6.24.

Subject: Re: OpenVZ HWNODE becomes unresponsive
Posted by defiancenl on Wed, 09 Dec 2009 14:47:17 GMT
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ok now i understand

Can i simply use the rhel kernel in ubuntu ?
meaning rpm install it?

edit
i installed the RHEL kernel

Linux hn02 2.6.18-164.2.1.el5.028stab066.7PAE #1 SMP Thu Nov 26 07:13:19 MSK 2009 i686 GNU/Linux

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Subject: Re: OpenVZ HWNODE becomes unresponsive
Posted by defiancenl on Thu, 10 Dec 2009 12:12:46 GMT
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ok so i updated the kernel to the latest RHEL5 kernel.
I will install remote console also, so i can see if it goes down whats going on.