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Subject: Heartbeat configuration for OpenVZ's VE  
Posted by [tdesaules](#) on Thu, 08 Sep 2011 15:21:55 GMT  
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Hi mates

I have some trouble configuring heartbeat inside a VM... I don't know if it's possible or if someone have made it before because I fail...

There is my ha.cf :

```
logfile      /var/log/ha-log
debug        3
debugfile    /var/log/ha-debug
logfacility   local0
keepalive    2
deadtime     10
initdead     120
bcast        venet0
ucast        venet0      172.16.1.65
udpport      694
auto_failback on
node         haproxy1
node         haproxy2
```

And... the log :

```
Sep 08 17:19:17 haproxy1.in.unleashedproject.com heartbeat: [1152]: info: AUTH: i=3: key =
0x1d93c30, auth=0x7fd3dbd63df0, authname=md5
Sep 08 17:19:17 haproxy1.in.unleashedproject.com heartbeat: [1152]: info: Pacemaker support:
false
Sep 08 17:19:17 haproxy1.in.unleashedproject.com heartbeat: [1152]: WARN: Logging daemon is
disabled --enabling logging daemon is recommended
Sep 08 17:19:17 haproxy1.in.unleashedproject.com heartbeat: [1152]: info:
*****
Sep 08 17:19:17 haproxy1.in.unleashedproject.com heartbeat: [1152]: info: Configuration
validated. Starting heartbeat 3.0.4
Sep 08 17:19:17 haproxy1.in.unleashedproject.com heartbeat: [1152]: info: Heartbeat Hg Version:
node: fcd56a9dd18c286a8c6ad639997a56b5ea40d441
Sep 08 17:19:17 haproxy1.in.unleashedproject.com heartbeat: [1154]: info: heartbeat: version
3.0.4
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1154]: info: Heartbeat generation:
1315480353
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1154]: info: glib: UDP Broadcast
heartbeat started on port 694 (694) interface venet0
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1154]: info: glib: UDP Broadcast
heartbeat closed on port 694 interface venet0 - Status: 1
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1163]: ERROR: Unable to set
```

scheduler parameters.: Operation not permitted  
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1164]: ERROR: Unable to set scheduler parameters.: Operation not permitted  
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1162]: ERROR: Unable to set scheduler parameters.: Operation not permitted  
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1154]: info: glib: ucast: write socket priority set to IPTOS\_LOWDELAY on venet0  
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1154]: info: glib: ucast: bound send socket to device: venet0  
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1154]: info: glib: ucast: bound receive socket to device: venet0  
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1154]: info: glib: ucast: started on port 694 interface venet0 to 172.16.1.65  
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1165]: ERROR: Unable to set scheduler parameters.: Operation not permitted  
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1166]: ERROR: Unable to set scheduler parameters.: Operation not permitted  
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1154]: info: G\_main\_add\_TriggerHandler: Added signal manual handler  
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1154]: info: G\_main\_add\_TriggerHandler: Added signal manual handler  
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1154]: info: G\_main\_add\_SignalHandler: Added signal handler for signal 17  
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1154]: ERROR: Unable to set scheduler parameters.: Operation not permitted  
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1154]: info: Local status now set to: 'up'  
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1154]: info: Link haproxy1.in.unleashedproject.com:venet0 up.  
Sep 08 17:19:18 haproxy1.in.unleashedproject.com heartbeat: [1154]: info: Managed write\_hostcachedata process 1167 exited with return code 0.  
Sep 08 17:19:28 haproxy1.in.unleashedproject.com heartbeat: [1154]: WARN: Gmain\_timeout\_dispatch: Dispatch function for send local status took too long to execute: 90 ms (> 50 ms) (GSource: 0x1d9c220)  
Sep 08 17:21:19 haproxy1.in.unleashedproject.com heartbeat: [1162]: CRIT: Emergency Shutdown: Master Control process died.  
Sep 08 17:21:19 haproxy1.in.unleashedproject.com heartbeat: [1162]: CRIT: Killing pid 1154 with SIGTERM  
Sep 08 17:21:19 haproxy1.in.unleashedproject.com heartbeat: [1162]: CRIT: Killing pid 1163 with SIGTERM  
Sep 08 17:21:19 haproxy1.in.unleashedproject.com heartbeat: [1162]: CRIT: Killing pid 1164 with SIGTERM  
Sep 08 17:21:19 haproxy1.in.unleashedproject.com heartbeat: [1162]: CRIT: Killing pid 1165 with SIGTERM  
Sep 08 17:21:19 haproxy1.in.unleashedproject.com heartbeat: [1162]: CRIT: Killing pid 1166 with SIGTERM  
Sep 08 17:21:19 haproxy1.in.unleashedproject.com heartbeat: [1162]: CRIT: Emergency Shutdown(MCP dead): Killing ourselves.

If someone have any idea thanks

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Subject: Re: Heartbeat configuration for OpenVZ's VE  
Posted by [seanfulton](#) on Fri, 09 Sep 2011 11:29:28 GMT  
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We use heartbeat to pair more than 50 nodes. I compared my config to yours. I have bcast commented out, and I have two ucast entries, both venet0 but one for each IP in the cluster (ie, local IP and remote IP). We have have a ping\_group of four IP addresses to try to avoid deadlock.

The messages from your /var/log/messages file, the only one I think is relevant is about the response taking too long. That means that this node is not getting a response from the remote node quickly enough. Operation not permitted stuff--I have been getting that for four years; no idea what it means, but it doesn't affect heartbeat.

Can you post your haresources file?

Also, make sure the files are \*identical\* between the two hosts.

sean

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Subject: Re: Heartbeat configuration for OpenVZ's VE  
Posted by [tdesaules](#) on Fri, 09 Sep 2011 16:30:23 GMT  
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I made some change.

I create two network :  
a Virtual Ethernet device in 10.0.0.X for heartbeat  
a Virtual network device in 172.16.1.X for all

haresources :  
haproxy1.in.unleashedproject.com      10.0.0.4

When I start heartbeat I have :  
Starting High-Availability services: IPAddr[3690]: INFO: Resource is stopped

And My log again :  
Sep 09 18:26:54 haproxy1.in.unleashedproject.com heartbeat: [5074]: info: AUTH: i=3: key = 0x165bde0, auth=0x7fdff9155df0, authname=md5

Sep 09 18:26:54 haproxy1.in.unleashedproject.com heartbeat: [5074]: info: Pacemaker support: false  
Sep 09 18:26:54 haproxy1.in.unleashedproject.com heartbeat: [5074]: WARN: Logging daemon is disabled --enabling logging daemon is recommended  
Sep 09 18:26:54 haproxy1.in.unleashedproject.com heartbeat: [5074]: info:  
\*\*\*\*\*  
Sep 09 18:26:54 haproxy1.in.unleashedproject.com heartbeat: [5074]: info: Configuration validated. Starting heartbeat 3.0.4  
Sep 09 18:26:54 haproxy1.in.unleashedproject.com heartbeat: [5074]: info: Heartbeat Hg Version: node: fcd56a9dd18c286a8c6ad639997a56b5ea40d441  
Sep 09 18:26:54 haproxy1.in.unleashedproject.com heartbeat: [5076]: info: heartbeat: version 3.0.4  
Sep 09 18:26:55 haproxy1.in.unleashedproject.com heartbeat: [5076]: info: Heartbeat generation: 1315480365  
Sep 09 18:26:55 haproxy1.in.unleashedproject.com heartbeat: [5076]: info: glib: UDP Broadcast heartbeat started on port 694 (694) interface eth0  
Sep 09 18:26:55 haproxy1.in.unleashedproject.com heartbeat: [5076]: info: glib: UDP Broadcast heartbeat closed on port 694 interface eth0 - Status: 1  
Sep 09 18:26:55 haproxy1.in.unleashedproject.com heartbeat: [5086]: ERROR: Unable to set scheduler parameters.: Operation not permitted  
Sep 09 18:26:55 haproxy1.in.unleashedproject.com heartbeat: [5076]: info: G\_main\_add\_TriggerHandler: Added signal manual handler  
Sep 09 18:26:55 haproxy1.in.unleashedproject.com heartbeat: [5076]: info: G\_main\_add\_TriggerHandler: Added signal manual handler  
Sep 09 18:26:55 haproxy1.in.unleashedproject.com heartbeat: [5076]: info: G\_main\_add\_SignalHandler: Added signal handler for signal 17  
Sep 09 18:26:55 haproxy1.in.unleashedproject.com heartbeat: [5085]: ERROR: Unable to set scheduler parameters.: Operation not permitted  
Sep 09 18:26:55 haproxy1.in.unleashedproject.com heartbeat: [5084]: ERROR: Unable to set scheduler parameters.: Operation not permitted  
Sep 09 18:26:55 haproxy1.in.unleashedproject.com heartbeat: [5076]: ERROR: Unable to set scheduler parameters.: Operation not permitted  
Sep 09 18:26:55 haproxy1.in.unleashedproject.com heartbeat: [5076]: info: Local status now set to: 'up'  
Sep 09 18:26:55 haproxy1.in.unleashedproject.com heartbeat: [5076]: info: Link haproxy1.in.unleashedproject.com:eth0 up.  
Sep 09 18:26:55 haproxy1.in.unleashedproject.com heartbeat: [5076]: info: Managed write\_hostcachedata process 5087 exited with return code 0.  
Sep 09 18:28:55 haproxy1.in.unleashedproject.com heartbeat: [5076]: WARN: node haproxy2.in.unleashedproject.com: is dead  
Sep 09 18:28:56 haproxy1.in.unleashedproject.com heartbeat: [5084]: CRIT: Emergency Shutdown: Master Control process died.  
Sep 09 18:28:56 haproxy1.in.unleashedproject.com heartbeat: [5084]: CRIT: Killing pid 5076 with SIGTERM  
Sep 09 18:28:56 haproxy1.in.unleashedproject.com heartbeat: [5084]: CRIT: Killing pid 5085 with SIGTERM  
Sep 09 18:28:56 haproxy1.in.unleashedproject.com heartbeat: [5084]: CRIT: Killing pid 5086 with SIGTERM

Sep 09 18:28:56 haproxy1.in.unleashedproject.com heartbeat: [5084]: CRIT: Emergency Shutdown(MCP dead): Killing ourselves.

And /var/log/message

Sep 9 18:26:54 haproxy1 heartbeat: [5074]: info: AUTH: i=3: key = 0x165bde0, auth=0x7fdff9155df0, authname=md5  
Sep 9 18:26:54 haproxy1 heartbeat: [5074]: info: Pacemaker support: false  
Sep 9 18:26:54 haproxy1 heartbeat: [5074]: WARN: Logging daemon is disabled --enabling logging daemon is recommended  
Sep 9 18:26:54 haproxy1 heartbeat: [5074]: info: \*\*\*\*\*  
Sep 9 18:26:54 haproxy1 heartbeat: [5074]: info: Configuration validated. Starting heartbeat 3.0.4  
Sep 9 18:26:54 haproxy1 heartbeat: [5074]: info: Heartbeat Hg Version: node: fcd56a9dd18c286a8c6ad639997a56b5ea40d441  
Sep 9 18:26:54 haproxy1 heartbeat: [5076]: info: heartbeat: version 3.0.4  
Sep 9 18:26:55 haproxy1 heartbeat: [5076]: info: Heartbeat generation: 1315480365  
Sep 9 18:26:55 haproxy1 heartbeat: [5076]: info: glib: UDP Broadcast heartbeat started on port 694 (694) interface eth0  
Sep 9 18:26:55 haproxy1 heartbeat: [5076]: info: glib: UDP Broadcast heartbeat closed on port 694 interface eth0 - Status: 1  
Sep 9 18:26:55 haproxy1 heartbeat: [5076]: info: G\_main\_add\_TriggerHandler: Added signal manual handler  
Sep 9 18:26:55 haproxy1 heartbeat: [5086]: ERROR: Unable to set scheduler parameters.: Operation not permitted  
Sep 9 18:26:55 haproxy1 heartbeat: [5076]: info: G\_main\_add\_TriggerHandler: Added signal manual handler  
Sep 9 18:26:55 haproxy1 heartbeat: [5076]: info: G\_main\_add\_SignalHandler: Added signal handler for signal 17  
Sep 9 18:26:55 haproxy1 heartbeat: [5085]: ERROR: Unable to set scheduler parameters.: Operation not permitted  
Sep 9 18:26:55 haproxy1 heartbeat: [5084]: ERROR: Unable to set scheduler parameters.: Operation not permitted  
Sep 9 18:26:55 haproxy1 heartbeat: [5076]: ERROR: Unable to set scheduler parameters.: Operation not permitted  
Sep 9 18:26:55 haproxy1 heartbeat: [5076]: info: Local status now set to: 'up'  
Sep 9 18:26:55 haproxy1 heartbeat: [5076]: info: Link haproxy1.in.unleashedproject.com:eth0 up.  
Sep 9 18:26:55 haproxy1 heartbeat: [5076]: info: Managed write\_hostcachedata process 5087 exited with return code 0.  
Sep 9 18:28:41 haproxy1 out of memory [5076]  
Sep 9 18:28:41 haproxy1 out of memory [5076]  
Sep 9 18:28:41 haproxy1 out of memory [5076]  
Sep 9 18:28:41 haproxy1 out of memory [5076]  
Sep 9 18:28:41 haproxy1 out of memory [5076]  
Sep 9 18:28:41 haproxy1 out of memory [5076]  
Sep 9 18:28:41 haproxy1 out of memory [5076]  
Sep 9 18:28:41 haproxy1 out of memory [5076]  
Sep 9 18:28:41 haproxy1 out of memory [5076]  
Sep 9 18:28:41 haproxy1 out of memory [5076]  
Sep 9 18:28:41 haproxy1 out of memory [5076]



```
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:55 haproxy1 out of memory [5076]
Sep 9 18:28:56 haproxy1 heartbeat: [5084]: CRIT: Emergency Shutdown: Master Control process
died.
Sep 9 18:28:56 haproxy1 heartbeat: [5084]: CRIT: Killing pid 5076 with SIGTERM
Sep 9 18:28:56 haproxy1 heartbeat: [5084]: CRIT: Killing pid 5085 with SIGTERM
Sep 9 18:28:56 haproxy1 heartbeat: [5084]: CRIT: Killing pid 5086 with SIGTERM
Sep 9 18:28:56 haproxy1 heartbeat: [5084]: CRIT: Emergency Shutdown(MCP dead): Killing
ourselves.
```

I hate this out of memory...

For the moment my ha.cf look like that :

```
logfile      /var/log/ha-log
debug        1
debugfile    /var/log/ha-debug
logfacility   local0
keepalive    2
deadtime     10
initdead     120
bcast        eth0
udpport      694
auto_failback on
node         haproxy1.in.unleashedproject.com
node         haproxy2.in.unleashedproject.com
```

Subject: Re: Heartbeat configuration for OpenVZ's VE  
Posted by [seanfulton](#) on Fri, 09 Sep 2011 23:01:05 GMT  
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My haresources has the following format:

```
primary-node IPaddr3::74.201.40.2 mon
```

IPaddr3 is the heartbeat script to start/stop/monitor the ip address of 74.201.40.2 and mon is a program that runs when the IP is up (mon runs, when it "dies" heartbeat will fail).

I'm not familiar with the syntax you are using. It may be a mistake, or it may be correct, I am not sure. I don't think the OOM errors have anything to do with OpenVZ per se. If your haresources is correct (and it very well may be, I don't know all the configs, then you may just have too little memory allocated to the VE. Did you check /proc/user\_beancounters on the host?

If you are getting errors there, do yourself a favor and don't try to tweak the settings yourself--it is very complicated. The secret I found in a couple of posts is to use vzsplite. If you want to put 5 VEs on this machine, just do `vzsplite -n 5 -f 5` (I think check the man page) and it will create a `ve-5.conf` config file in `/etc/vz/conf`. Then you can do `vzctl set <VEID> --applyconfig 5 --save` (again, I am not on a machine right now to check the syntax, but you can put it together) and it will config your VE with 1/5 of the resources on the machine. Solves a lot of problems.

sean

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