Subject: Content of /proc/self/status
Posted by neerd on Wed, 16 Jul 2008 10:33:03 GMT
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I encounter a small (which may not be one ...), I'm using OpenVZ on a gentoo.

On my Hardware Node /proc/self/status contains:

envID: 0

which is fine, but in my Virtual Environments I found no trace of envID in /proc/self/status. Is it an normal behavior ?

This may be a problem as one of my init script rely on this value to detect if it is inside a VE.

My kernel (compiled by myself based on the gentoo openvz kernel)

GoBox ji # uname -a
Linux GoBox 2.6.24-ovz005 #5 SMP Wed Jul 2 15:24:03 CEST 2008 i686 Intel(R) Pentium(R) Dual CPU E2180 @ 2.00GHz GenuineIntel GNU/Linux

Subject: Re: Content of /proc/self/status
Posted by maratrus on Thu, 17 Jul 2008 08:20:38 GMT
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Hello,

Quote:
I found no trace of envID

Please show the output of the following commands (just to clarify the situation)
from HN:

cat /proc/self/status | grep -i env

vzctl exec VE_ID cat /proc/self/status | grep -i env

Quote:
My kernel (compiled by myself based on the gentoo openvz kernel)

- what does it mean "gentoo openvz kernel"?
- could you possibly describe in more detail where have you got your kernel and if it is possible attach here .config file from your kernel.
- have patched your kernel or made any sort of corrections?

Thank You!

Subject: Re: Content of /proc/self/status
Posted by neerd on Thu, 17 Jul 2008 08:40:35 GMT
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On the HN: cat /proc/self/status | grep -i env

GoBox ~ # cat /proc/self/status | grep -i env
envID: 0
GoBox ~ #

GoBox ~ # vzctl exec 111 cat /proc/self/status | grep -i env
GoBox ~ # (nothing returned)

What I call a gentoo openvz kernel is the openvz kernel found in the gentoo tree (I do not know if your are familiar with gentoo, I just typed 'emerge openvz-sources' to get this kernel).

I did not make any modification to the kernel I got from the gentoo repository but I think the gentoo maintainer did (but I do not know what he did)

Please find attached my .config.

As the VZ things are modules this is my lsmod output:
GoBox ~ # lsmod
Module Size Used by
simfs 5060 2
vznetdev 16004 4
vzrst 131220 0
vzcpt 107812 0
tun 10240 2 vzrst,vzcpt
vzdquota 41368 2 [permanent]
vzmon 28040 5 vznetdev,vzrst,vzcpt
vzdev 3716 5 vznetdev,vzdquota,vzmon
GoBox ~ #

File Attachments

1) .config, downloaded 441 times

Subject: Re: Content of /proc/self/status
Posted by maratrus on Thu, 17 Jul 2008 11:02:51 GMT
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Hi,

OK, I understand the problem.
You can fix it by recompiling your kernel.

Please, find in linux/fs/proc/array.c file following strings:

```
#ifdef CONFIG_VE
	if (ve_is_super(get_exec_env()))
		buffer += sprintf(buffer,
				"envID:\t%d\n"
				"VPid:\t%d\n"
				"PNState:\t%u\n"
				"StopState:\t%u\n",
				p->ve_task_info.owner_env->veid,
				task_pid_vnr(p),
				p->pn_state,
				p->stopped_state);
#endif
```

And just remove "if (ve_is_super(get_exec_env()))" string.

I don't know why this was done in 2.6.24 kernel. Could you possibly fill the bug here http://bugzilla.openvz.org/.

P.S. you can obtain envID number for example via /proc/user_beancounters

Subject: Re: Content of /proc/self/status
Posted by neerd on Thu, 17 Jul 2008 13:17:37 GMT
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First of all many thanks for you help, I submitted a bug:
http://bugzilla.openvz.org/show_bug.cgi?id=936

If this change is reverted I will patch my kernel if not I will submit a patch to the gentoo init script functions