Subject: Re: Q: hardcoded parameters and restrictions Posted by dev on Thu, 24 Aug 2006 11:27:53 GMT

View Forum Message <> Reply to Message

```
Dmitry V. Levin wrote:
> Hi,
>
> On Tue, Aug 22, 2006 at 03:06:56PM +0400, Kirill Korotaev wrote:
>>Hello Dmitry,
>>
>>
>>>vzctl contains a few hardcoded parameters and restrictions which need to be
>>>converted into configurable vps.conf parameters.
>>>In particular, I mean HOME and PATH environment variables,
>>
>>do you mean HOME and PATH which are provided to VPS init?
>
> Yes, I mean VPS init, vzctl exec and vzctl enter.
>
>
>>mmm, probably can be made configurable from vps.conf
>>do you think it is required?
>
> I think this is required since each distro has own PATH policy.
from kernel init/main.c:
static char * argv init[MAX INIT ARGS+2] = { "init", NULL, };
char * envp_init[MAX_INIT_ENVS+2] = { "HOME=/", "TERM=linux", NULL, };
i.e. each init is run almost w/o any environment.
the same for VE.
on VE enter bash initializes PATH, HOME according to it's scripts.
So the only "bad" case I see is vzctl exec, right?
>>>allowed fs types (e.g. sysfs) -
>>sysfs was disabled for 2.6.8 kernels (by default)
>>only due to unreclaimable sysfs memory which took
>>about ~0.5-1Mb of RAM per VE.
>>It will be enabled for newer kernels by default.
>>
>>
>>> all these parameters should be easy to implement.
>>
```

```
>>>kernel space also contains hardcoded stuff.
>>>There is a flag to enable/disable sysfs within container, but I found no
>>>normal way to disable /proc.
>>
>>because sysfs was done disabled by default for memory consumption reason :/
>>/proc has no this problem and is always enabled.
>
> Unfortunately, /proc is notorious to had security-related bugs in the past,
> including arbitrary code execution in kernel space. Since I'm not sure
> that all such bugs are fixed, and since not all tasks require /proc to be
> mounted, I'd like to be able to disable /procfs on per-VPS basis.
Modern glibc (at least version from FC5) even doesn't work w/o /proc.
We had a bug with cp due to this:/
But in general I don't mind to make everything configurable.
How do you see it? via the same "features" mask as done with sysfs?
any other features? I think it is better to create a set of
env create funtions allowing vzctl to control which features a initialized in VE.
>>>Also, it seems to be no way to disable devices listed in
>>>default_minor_perms.
>>
>>applications do not work w/o /dev/null and others at all :)
>
> Yes, /dev/null and /dev/zero are not an issue.
> I care about /dev/random; how to deal with potential lack of randomness
> in the system?
Good point.
let's move this into vzctl?
lets start from this one.
http://bugzilla.openvz.org/show_bug.cgi?id=241
>>>Set of files added to virtualized /proc is also hardcoded. I found no way
>>>to e.g. add /proc/devices file required for some third party software.
>>this one is really the most usefull imho.
>>
>>in general you are right, many of these can be generalized and made
>>more tunable. Will appreciate any help on this and will do my best
>>to help and discuss what and how is needed.
>
> I think I could help with patches to userspace code if necessary.
thanks a lot!
```

Page 3 of 3 ---- Generated from

OpenVZ Forum