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Subject: VE Kernel Version

Posted by [frenchyp](#) on Thu, 19 Jul 2007 21:21:45 GMT

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Hello all.

I have a couple questions concerning the kernel visible from inside the VEs:

On my hardware node the installed openvz kernel is 2.6.18-ovz028stab023.1.

Inside the VEs the kernel reported by `uname -a` is 2.6.9.

1) Why isn't that kernel the same as the one on the HN (2.6.18-ovz028stab023.1) ?

2) Is there any way I can 'forge' the kernel version reported by `uname` inside the VEs (to return 2.6.20 for example) ?

Thank you.

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Subject: Re: VE Kernel Version

Posted by [khorenko](#) on Fri, 20 Jul 2007 06:49:42 GMT

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Hello.

0) you are using quite an old kernel, i advise to upgrade it.

1) it's strange if you didn't do anything the kernel version inside a VE should match kernel version (well, may be except for the architecture).

2) yes, there is a possibility to change a kernel version reported inside a VE:  
`/proc/sys/kernel/virt_osrelease` handles this.

Cat it and you'll see the kernel version which will be reported inside VEs (yes, it's not per-VE, it's global).

```
[HN]# cat /proc/version
```

```
Linux version 2.6.18-8.1.4.el5.028stab035.1 (root@rhel5-32-build) (gcc version 4.1.1 20061011  
(Red Hat 4.1.1-30)) #1 SMP Sat Jun 9 01:43:20 MSD 2007
```

```
[HN]# vzctl exec 101 uname -a
```

```
Linux dhcp0-56.sw.ru 2.6.18-8.1.4.el5.028stab035.1 #1 SMP Sat Jun 9 01:43:20 MSD 2007 i686  
i686 i386 GNU/Linux
```

```
[HN]# cat /proc/sys/kernel/virt_osrelease
```

```
2.6.18-8.1.4.el5.028stab035.1
```

```
[HN]# echo "2.6.9-finist" > /proc/sys/kernel/virt_osrelease
```

```
[HN]# cat /proc/sys/kernel/virt_osrelease
```

```
2.6.9-finist
```

```
[HN]# vzctl start 101
```

...

[HN]# vzctl exec 101 uname -a

Linux dhcp0-56.sw.ru 2.6.9-finist #1 SMP Sat Jun 9 01:43:20 MSD 2007 i686 i686 i386

GNU/Linux

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Subject: Re: VE Kernel Version

Posted by [frenchyp](#) on Fri, 20 Jul 2007 17:39:57 GMT

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You are right. The kernel version I was seeing was controlled by the file you mentioned.  
Thank you !

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