
Subject: OpenVZ 7 node and container different kernel versions?

Posted by [HHawk](#) on Sat, 04 May 2019 12:48:02 GMT

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Hi all,

We have been testing OpenVZ 7 as OpenVZ 6 (legacy) will be EOL later this year. So I have been testing it quite a bit. And I noticed something very strange.

The node which has OpenVZ 7 installed is running the following kernel:

```
Quote:Linux server5000.node.com 3.10.0-957.10.1.vz7.85.17 #1 SMP Thu Apr 11 18:11:44 MSK 2019 x86_64 x86_64 x86_64 GNU/Linux
```

And I created an Ubuntu 18.04 container by using: `vzctl create 10003 --ostemplate ubuntu-18.04-x86_64`

After that I copied several things over from the `/etc/vz/conf/10002.conf` from a working server (made minor changes for obvious part).

When I did that I tried installing Plesk in the Ubuntu container and it worked without any issues. Cannot see errors or issues.

However when I run `uname` inside the container I was surprised to see higher kernel version:

```
Quote:Linux ns1.ubuntu1804.nl 4.15.0 #1 SMP Thu Apr 11 18:11:44 MSK 2019 x86_64 x86_64 x86_64 GNU/Linux
```

Remember that I come from OpenVZ 6 (legacy). Here the container had always the same kernel version as the hardware node.

Maybe something changed and the above is normal?

Can someone confirm and/or explain this please?

Thanks in advance.

Regards

Subject: Re: OpenVZ 7 node and container different kernel versions?

Posted by [HHawk](#) on Mon, 06 May 2019 07:51:27 GMT

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A small follow-up with extra information.

I also migrated a container a CentOS 7 with `ovztransfer.sh`.

This container is running the same kernel as the hardware node:

```
Linux nodename.server.com 3.10.0-957.10.1.vz7.85.17 #1 SMP Thu Apr 11 18:11:44 MSK 2019 x86_64 x86_64 x86_64 GNU
```

A container I created manually, also with CentOS 7, has a similar kernel version as the hardware

node:

```
Node: Linux nodename.server.com 3.10.0-957.10.1.vz7.85.17 #1 SMP Thu Apr 11 18:11:44 MSK
2019 x86_64 x86_64 x86_64 GNU
```

```
Container: ns1.container.com 3.10.0 #1 SMP Thu Apr 11 18:11:44 MSK 2019 x86_64 x86_64
x86_64 GNU/Linux
```

So the only weird one is the Ubtuntu created container? Which has kernel version: Linux ns1.ubuntu1804.nl 4.15.0 #1 SMP Thu Apr 11 18:11:44 MSK 2019 x86_64 x86_64 x86_64 GNU/Linux

Can please someone inform me if this is bad or am I worrying to much? I hope someone can give me a clear answer on this and explain some stuff.

Thanks in advance!

//edit

By the way; I created the Ubuntu container by using the EZ templates with the following command: `vzctl create 10003 --ostemplate ubuntu-18.04-x86_64`

Subject: Re: OpenVZ 7 node and container different kernel versions?

Posted by [khorenko](#) on Mon, 06 May 2019 15:34:01 GMT

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Hi!

You have nothing to worry about, it works as designed.

Some modern distros require new kernel version and do check the version during their work, so we backport kernel features which those distros require from newer kernels (so appropriate apps can use those features) and fake "uname" output for those containers.

Actual kernel version reported is configured in templates config, for example:

```
# cat /vz/template/ubuntu/16.04/x86_64/config/os/default/osrelease
4.4.0
```

BTW, it was the same for OpenVZ 6.

Hope that helps.

Subject: Re: OpenVZ 7 node and container different kernel versions?

Posted by [HHawk](#) on Tue, 07 May 2019 17:32:50 GMT

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khorenko wrote on Mon, 06 May 2019 15:34Hi!

You have nothing to worry about, it works as designed.

Some modern distros require new kernel version and do check the version during their work, so we backport kernel features which those distros require from newer kernels (so appropriate apps can use those features) and fake "uname" output for those containers.

Actual kernel version reported is configured in templates config, for example:

```
# cat /vz/template/ubuntu/16.04/x86_64/config/os/default/osrelease  
4.4.0
```

BTW, it was the same for OpenVZ 6.

Hope that helps.

Thank you khorenko!
Highly appreciated.
