Subject: Why OpenVZ 7 container has different kernel comparing with hardware node?
Posted by learndiary on Sat, 01 Apr 2017 03:44:03 GMT
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These days I have tested the new openvz 7 server.

I found the hardware node kernel version is: 3.10.0-327.36.1.vz7.18.8 (uname -r)
And I created a debian 8 container, its kernel version is: 3.16.0 (uname -r)

I have not found any kernel 3.16.0 image or modules existing in openvz 7 hardware node and debian 8 container.

I read the openvz wiki, it said: "The architecture of OpenVZ is different from the traditional virtual machines architecture because it always runs the same OS kernel as the host system (while still allowing multiple Linux distributions in individual containers)." (https://openvz.org/Features)

Why the thing has been changed? And where is the kernel 3.16.0 files in hardware node or container? And, what is the technology behind the thing?

I have searched on google many times and not found any clue. Thanks.

Subject: Re: Why OpenVZ 7 container has different kernel comparing with hardware node?
Posted by khorenko on Mon, 03 Apr 2017 07:55:29 GMT
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Virtuozzo is able to show different kernel version inside a Container,
this feature was implemented because some distribs require some minimal kernel version and fail to work if reported kernel version is less than expected.

Subject: Re: Why OpenVZ 7 container has different kernel comparing with hardware node?
Posted by learndiary on Wed, 05 Apr 2017 02:48:17 GMT
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Thanks.

There isn't real different kernel in the CT container, the reporting kernel version in a CT container is just used to cheat the distrib running in the OpenVZ 7 container. Isn't it?

Subject: Re: Why OpenVZ 7 container has different kernel comparing with hardware node?

Posted by khorenko on Wed, 05 Apr 2017 07:34:27 GMT

Right.

Subject: Re: Why OpenVZ 7 container has different kernel comparing with hardware node?[Resolved]
Posted by learndiary on Wed, 05 Apr 2017 07:42:34 GMT

Thanks.
I known.
Marked this topic as resolved.