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Subject: Re: More on making an OpenVZ template  
Posted by [samiam](#) on Sun, 21 Aug 2011 21:30:02 GMT  
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Thank you very much for fixing this bug. I can't think of an active Linux distribution that doesn't have a POSIX-compatible /bin/sh out there [1] [2], so it's reasonable to expect a container to have /bin/sh (which can be dash, busybox, pdksh, whatever).

- Sam

[1] There are projects which use Plan 9's userspace instead of a POSIX-compatible one, but none of them are a full non-POSIX-compatible Linux distro. Plan 9 from User Space is an addition to a POSIX-compatible Linux distribution. The Glendix project, which would have been a non-POSIX-like distro, hasn't been updated since 2009.

[2] There is csh and tcsh, and maybe some BSD systems in the 1980s had csh but no /bin/sh, but the only recent system to use a csh as a default shell was Mac OS X up until 10.3 (tcsh). There is also fish, but there doesn't appear to be any full fledged distro that replaced /bin/sh with fish. Ksh is POSIX compatible; all the other UNIX command shell projects (except possibly ksh) appear moribund or dead.

2011/8/21 Kir Kolyshkin <[kir@openvz.org](mailto:kir@openvz.org)>:

> On 08/20/2011 12:18 AM, Sam Trenholme wrote:

>>

>> I am continuing the work of making a tiny OpenVZ template. One  
>> discovery I have is that, for the OpenVZ tools to work, not only is it  
>> mandatory for the system to have the Bash shell, but also that /bin/sh  
>> has to be a symlink to Bash. This is because the "vzctl" program  
>> prepends the contents of the Bash-only  
>> "/etc/vz/dists/scripts/functions" script to any script used by the  
>> container to configure the system, and there does not appear to be any  
>> way to configure a container to not use this Bash-only script.

>>

>> In other words, any OpenVZ template without /bin/sh being an alias for  
>> Bash can not be configured via the "vzctl" tools (nor the  
>> corresponding Proxmox/SolusVM/whatever tools that call "vzctl").

>>

>> This in mind, the next release of TinyVZ will include the Bash shell.  
>> I actually prefer Bash over Busybox's "ash" shell; I \*really\* miss the  
>> "!" and "!" shortcuts, as well as the "history" command, when using  
>> this minimal shell.

>

> This is one way of doing things. The other way would be to rectify the  
> '/etc/dists/scripts/functions' to not be dependent on bash.

>

> I am currently looking at it, so far I only found that it uses the  
> 'function' keyword  
> which is bashism. With that removed, it looks like it is working fine in  
> either dash  
> or busybox sh.  
>  
> I have committed the patch:  
> <http://git.openvz.org/?p=vzctl;a=commit;h=f83b28435f582f2f74fb3267b89b061a551b32e2>  
>  
> And then a few more (to check it works in Debian without /bin/bash):  
> <http://git.openvz.org/?p=vzctl;a=commit;h=a86beacde8c1fba4002eaf5bf48a535e7d46ffc0>  
> <http://git.openvz.org/?p=vzctl;a=commit;h=382f306cd0865bb4bcafc4f7a4b5cfe2f809296c>  
>  
>> Since this is an open source project I am not getting paid for, I have  
>> no timeline of when I will make another TinyVZ release, nor do I  
>> guarantee I will even make such a release. Working on TinyVZ has  
>> taught me a lot about OpenVZ and hopefully is something that is  
>> useful.  
>>  
>> - Sam

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