Subject: Re: [PATCH 01/11] SYSCTL: export root and set handling routines Posted by ebiederm on Wed, 11 Jan 2012 17:20:17 GMT

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Stanislav Kinsbursky <skinsbursky@parallels.com> writes:

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>>> Stanislav Kinsbursky<skinsbursky@parallels.com> writes:

>>>> Stanislav Kinsbursky<skinsbursky@parallels.com> writes:

>>>>> Doing that independently of the rest of the sysctls is pretty horrible >>>>> and confusing to users. What I am planning might suit your needs and >>>>> if not we need to talk some more about how to get the vfs to do >>>>> something reasonable.

>>>>>>

>>>>>

>>>> Ok, Eric. Would be glad to discuss your sysctls plans.

>>>> But actually you already know my needs: I would like to make sysctls work in the >>>> way like sysfs does: i.e. content of files depends on mount maker - >>>> not viewer.

>>>>

>>>> What drives the desire to have sysctls depend on the mount maker?

>>> Because we can (will, actually) have nested fs root's for containers. IOW,
>> container's root will be accessible from it's creator context. And I want to
>> tune container's fs from creators context.

>>

>> Tuning the child context from the parent context is an entirely

>> reasonable thing to do. To affect a namespace that is not yours

>> the requirement is simply that we don't use current to lookup the

>> sysctl. So what I am proposing should work for your case.

>> >

> Could you explain, what are you proposing?

> I still don't know any details about it.

I am proposing treating /proc/sys like /proc/net is currently treated. See below.

>>>> Especially what drives that desire not to have it have a /proc/<pid>/sys>>>> directory that reflects the sysctls for a given process.

>>>

>>> This is not so important for me, where to access sysctl's. But I'm worrying
>> about backward compatibility. IOW, I'm afraid of changing path
>> "/proc/sys/sunprc/*" to "/proc/<pid>/sys/sunrpc". This would break a lot of
>> user-space programs.

>>

>> The part that keeps it all working is by adding a symlink from /proc/sys
>> to /proc/self/sys. That technique has worked well for /proc/net, and I
>> don't expect there will be any problems with /proc/sys either. It is
>> possible but is very rare for the introduction of a symlink in a path
>> to cause problems.

>>

>

> Probably I don't understand you, but as I see it now, symlink to "/proc/self/"
 > is unacceptable because of the following:

> 1) will be used current context (any) instead of desired one

(Using the current context is the desirable outcome for existing tools).

> 1) if CT has other pid namespace - then we just have broken link.

Assuming the process in question is not in the pid namespace available to proc then yes you will indeed have a broken link. But a broken link is only a problem for new applications that are doing something strange.

I am proposing treating /proc/sys like /proc/net has already been treated. Aka move have the version of /proc/sys that relative to a process be visible at: /proc/<pid>/sys, and with a compat symlink from /proc/sys -> /proc/self/sys.

Just like has already been done with /proc/net.

Semantically this should be easy to understand, and about as backwards compatible as it gets.

Eric

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