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Subject: Re: [PATCHSET] 2.6.20-rc4-mm1-lxc2

Posted by [Mishin Dmitry](#) on Wed, 17 Jan 2007 10:57:10 GMT

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On Wednesday 17 January 2007 02:48, Daniel Lezcano wrote:

> Cedric Le Goater wrote:

> > All,

> >

> > We've been gathering and porting patches related to namespaces in

> > a lxc patchset for a while now. Mostly working on the network

> > namespace which will require some extra work to be usable.

> >

> > \* It's available here :

> >

> > <http://www.sr71.net/patches/2.6.20/2.6.20-rc4-mm1-lxc2/>

> >

> > \* Caveats :

> >

> > namespace syscalls are still under construction.

> >

> > network namespace is broken :

> >

> > . the nsproxy backpointer in net\_ns is flaky.

> > . the push\_net\_ns() and pop\_net\_ns() can be called under

> > irq and are using current. this seems inappropriate.

> > . there is a race on ->nsproxy between push\_net\_ns() and

> > exit\_task\_namespaces()

>

> Hi Dmitry,

>

> we are experiencing NULL address access when using the nsproxy in

> push\_net\_ns function without any unshare.

>

> It appears the exit\_task\_namespace function sets current->nsproxy to

> NULL and we are interrupted by an incoming packet. The netif\_receive\_skb

> does push\_net\_ns(dev->net\_ns). The push\_net\_ns function retrieves the

> current->nsproxy to use it. But it was previously set to NULL by the

> exit\_task\_namespace function.

>

> The bug can be reproduced with the following command launched from

> another host.

>

> while \$(true); do ssh myaddress ls > /dev/null && echo -n .; done

>

> After a time (between 1 second - 3 minutes), the kernel panics.

>

> I think this will be very hard to fix and perhaps we should redesign

> some part. Instead of using nsproxy swapping, perhaps we should pass

> net\_ns as parameter to functions, but that will breaks a lot of API.  
I've redesigned this already to use per-CPU global variable, as Eric suggests. Updated l2 networking patchset will be sent later today or tomorrow. Sorry for the latency, there were very long holidays here :)

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Thanks,  
Dmitry.

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Containers mailing list  
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