Subject: Re: net namespace plans for 2.6.25 (was Re: Pid namespaces problems) Posted by Pavel Emelianov on Fri, 09 Nov 2007 10:14:32 GMT View Forum Message <> Reply to Message

Daniel Lezcano wrote: > Pavel Emelyanov wrote: >> Daniel Lezcano wrote: >>> Denis V. Lunev wrote: >>> > Daniel Lezcano wrote: >>> >> Denis V. Lunev wrote: >>> >>> Daniel Lezcano wrote: >>> >>> >>> >>>> \* the first one is the locking of the network namespace list by >>> >>> rtnl\_lock, so from the timer callback we can not browse the network >>> >>>> namespace list to check the age of the routes. It is a problem I would >>> >>>> like to talk with Denis if he has time >>> >>> From my point of view, the situation is clear. The timer should be >>> >>> per/namespace. The situation is completely different as one in IPv4. >>> >> We thought to make a timer per namespace for ipv6, but we are a little >>> >> afraid for the performances when there will be a lot of containers. >>> >> Anyway, we can do a timer per namespace and optimize that later. I will >>> >> cook a new patch to take into account that for the next week. >>> > >>> > IMHO not a problem. tcp\_write\_timer is per/socket timer. If this works >>> > efficiently, per/namespace one will work also. >>> >>> That's right, this is a good argument. By the way, the amount of work to >>> be done in the tcp\_write\_timer is perhaps smaller than the one done in >>> the ipv6 routing age check, no ? Anyway, I'm not against a timer per >>> namespace in this case, I already did a try before rolling back to a >>> for each net in the gc timer, that changes a little the API, but nothing >> We can easily make the netns list rcu protected to address this issue. >> If you're interested, I can prepare a patch tomorrow. > > Sure, I'm interested :) > > Benjamin and I, we thought about using a rcu to avoid to use a timer per > namespace in ipv6 but we faced to the problem with rtnl unlock function > when the network namespace is protected with the rtnl\_lock/rtnl\_unlock. > In the function rtnl\_unlock (not the one in net-2.6 but the one which is > in netns49), there is loop, for each net, in this loop, we do > rtnl\_unlock, call sk\_data\_ready and take the lock again. If we are in

> rcu protected model, this loop will take a lock (one time just before

> sk\_data\_ready and one time in the sk\_data\_ready function). As far as I
> understand with rcu, we should not block inside a rcu\_read\_lock, right ?

Right. I will look at it. I think that if we protect the list with RCU the rtnl\_lock() protection will be not needed any longer.

Thanks, Pavel

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Page 2 of 2 ---- Generated from OpenVZ Forum