
Subject: [PATCH][net-2.6.25][NETNS] make netns cleanup to run in a separate workqueue

Posted by [Daniel Lezcano](#) on Mon, 19 Nov 2007 10:44:25 GMT

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Subject: Re: [PATCH][net-2.6.25][NETNS] make netns cleanup to run in a separate workqueue

Posted by [dev](#) on Mon, 19 Nov 2007 11:01:27 GMT

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imho panic() is too much.

create_singlethread_workqueue() can fail e.g. due to out of memory...

Thanks,
Kirill

Daniel Lezcano wrote:

> Subject: make netns cleanup to run in a separate queue

> From: Benjamin Thery <benjamin.thery@bull.net>

>

> This patch adds a separate workqueue for cleaning up a network
> namespace. If we use the keventd workqueue to execute cleanup_net(),
> there is a problem to unregister devices in IPv6. Indeed the code
> that cleans up also schedule work in keventd: as long as cleanup_net()
> hasn't return, dst_gc_task() cannot run and as long as dst_gc_task() has
> not run, there are still some references pending on the net devices and
> cleanup_net() can not unregister and exit the keventd workqueue.

>

> Signed-off-by: Daniel Lezcano <dlezcano@fr.ibm.com>

> Signed-off-by: Benjamin Thery <benjamin.thery@bull.net>

> Acked-by: Denis V. Lunev <den@openvz.org>

> ---

> net/core/net_namespace.c | 9 ++++++++

> 1 file changed, 8 insertions(+), 1 deletion(-)

>

> Index: net-2.6.25/net/core/net_namespace.c

> =====

> --- net-2.6.25.orig/net/core/net_namespace.c

> +++ net-2.6.25/net/core/net_namespace.c

> @@ -58,6 +58,7 @@ out_undo:

>

```

> #ifdef CONFIG_NET_NS
> static struct kmem_cache *net_cachep;
> +static struct workqueue_struct *netns_wq;
>
> static struct net *net_alloc(void)
> {
> @@ -149,7 +150,7 @@ void __put_net(struct net *net)
> {
> /* Cleanup the network namespace in process context */
> INIT_WORK(&net->work, cleanup_net);
> - schedule_work(&net->work);
> + queue_work(netns_wq, &net->work);
> }
> EXPORT_SYMBOL_GPL(__put_net);
>
> @@ -171,7 +172,13 @@ static int __init net_ns_init(void)
> net_cachep = kmem_cache_create("net_namespace", sizeof(struct net),
> SMP_CACHE_BYTES,
> SLAB_PANIC, NULL);
> +
> + /* Create workqueue for cleanup */
> + netns_wq = create_singlethread_workqueue("netns");
> + if (!netns_wq)
> + panic("Could not create netns workq");

> #endif
> +
> mutex_lock(&net_mutex);
> err = setup_net(&init_net);
>
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Subject: Re: [PATCH][net-2.6.25][NETNS] make netns cleanup to run in a separate workqueue

Posted by [dev](#) on Mon, 19 Nov 2007 11:07:50 GMT

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Ah, sorry. Didn't notice it's called only on boot.

Acked-By: Kirill Korotaev <dev@sw.ru>

Kirill Korotaev wrote:

> imho panic() is too much.

> create_singlethread_workqueue() can fail e.g. due to out of memory...

>

> Thanks,

> Kirill

>

>

> Daniel Lezcano wrote:

>

>>Subject: make netns cleanup to run in a separate queue

>>From: Benjamin Thery <benjamin.thery@bull.net>

>>

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>>namespace. If we use the keventd workqueue to execute cleanup_net(),
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>>that cleans up also schedule work in keventd: as long as cleanup_net()
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>>cleanup_net() can not unregister and exit the keventd workqueue.

>>

>>Signed-off-by: Daniel Lezcano <dlezcano@fr.ibm.com>

>>Signed-off-by: Benjamin Thery <benjamin.thery@bull.net>

>>Acked-by: Denis V. Lunev <den@openvz.org>

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>>

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>>+ if (!netns_wq)
>>+   panic("Could not create netns workq");
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Subject: Re: [PATCH][net-2.6.25][NETNS] make netns cleanup to run in a separate workqueue

Posted by [davem](#) on Tue, 20 Nov 2007 07:18:34 GMT

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From: Kirill Korotaev <dev@sw.ru>

Date: Mon, 19 Nov 2007 14:08:49 +0300

> Acked-By: Kirill Korotaev <dev@sw.ru>

I've applied this patch, thanks everyone.

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