

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>

>>

>>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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