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Subject: [PATCH 4/12] L2 network namespace: devinet sysctl's checks

Posted by [Mishin Dmitry](#) on Wed, 06 Dec 2006 22:26:18 GMT

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This patch prohibits sysctl's registrations for devices, initialized in non-init network namespace. This is required due to absense of the sysctl virtualization.

Signed-off-by: Dmitry Mishin <dim@openvz.org>

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net/ipv4/devinet.c | 26 ++++++-----  
1 file changed, 16 insertions(+), 10 deletions(-)

--- linux-2.6.19-rc6-mm2.orig/net/ipv4/devinet.c

+++ linux-2.6.19-rc6-mm2/net/ipv4/devinet.c

@@ -161,8 +161,9 @@ struct in\_device \*inetdev\_init(struct ne

/\* Reference in\_dev->dev \*/

dev\_hold(dev);

#ifdef CONFIG\_SYSCTL

- neigh\_sysctl\_register(dev, in\_dev->arp\_parms, NET\_IPV4,

- NET\_IPV4\_NEIGH, "ipv4", NULL, NULL);

+ if (current\_net\_ns == &init\_net\_ns)

+ neigh\_sysctl\_register(dev, in\_dev->arp\_parms, NET\_IPV4,

+ NET\_IPV4\_NEIGH, "ipv4", NULL, NULL);

#endif

/\* Account for reference dev->ip\_ptr \*/

@@ -170,7 +171,8 @@ struct in\_device \*inetdev\_init(struct ne

rcu\_assign\_pointer(dev->ip\_ptr, in\_dev);

#ifdef CONFIG\_SYSCTL

- devinet\_sysctl\_register(in\_dev, &in\_dev->cnf);

+ if (current\_net\_ns == &init\_net\_ns)

+ devinet\_sysctl\_register(in\_dev, &in\_dev->cnf);

#endif

ip\_mc\_init\_dev(in\_dev);

if (dev->flags & IFF\_UP)

@@ -210,13 +212,15 @@ static void inetdev\_destroy(struct in\_de

}

#ifdef CONFIG\_SYSCTL

- devinet\_sysctl\_unregister(&in\_dev->cnf);

+ if (current\_net\_ns == &init\_net\_ns)

+ devinet\_sysctl\_unregister(&in\_dev->cnf);

#endif

dev->ip\_ptr = NULL;

```

#ifdef CONFIG_SYSCTL
- neigh_sysctl_unregister(in_dev->arp_parms);
+ if (current_net_ns == &init_net_ns)
+ neigh_sysctl_unregister(in_dev->arp_parms);
#endif
    neigh_parms_release(&arp_tbl, in_dev->arp_parms);
    arp_ifdown(dev);
@@ -1104,11 +1108,13 @@ static int inetdev_event(struct notifier
    inetdev_changename(dev, in_dev);

#ifdef CONFIG_SYSCTL
- devinet_sysctl_unregister(&in_dev->cnf);
- neigh_sysctl_unregister(in_dev->arp_parms);
- neigh_sysctl_register(dev, in_dev->arp_parms, NET_IPV4,
-     NET_IPV4_NEIGH, "ipv4", NULL, NULL);
- devinet_sysctl_register(in_dev, &in_dev->cnf);
+ if (current_net_ns == &init_net_ns) {
+ devinet_sysctl_unregister(&in_dev->cnf);
+ neigh_sysctl_unregister(in_dev->arp_parms);
+ neigh_sysctl_register(dev, in_dev->arp_parms, NET_IPV4,
+     NET_IPV4_NEIGH, "ipv4", NULL, NULL);
+ devinet_sysctl_register(in_dev, &in_dev->cnf);
+ }
#endif
    break;
}

```

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