
Subject: [PATCH 4/12] L2 network namespace (v3): devinet sysctl's checks

Posted by [Mishin Dmitry](#) on Wed, 17 Jan 2007 16:01:57 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>

net/ipv4/devinet.c | 26 ++++++++-----

1 file changed, 16 insertions(+), 10 deletions(-)

--- linux-2.6.20-rc4-mm1.net_ns.orig/net/ipv4/devinet.c

+++ linux-2.6.20-rc4-mm1.net_ns/net/ipv4/devinet.c

@@ -160,15 +160,17 @@ struct 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 (below) */

in_dev_hold(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)

@@ -211,13 +213,15 @@ 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);
@@ -1105,11 +1109,13 @@ 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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