
Subject: [patch 15/20] [Network namespace] Add visibility on the loopback address.
Posted by [Daniel Lezcano](#) on Sun, 10 Dec 2006 21:58:32 GMT
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Signed-off-by: Daniel Lezcano <dlezcano@fr.ibm.com>

```
include/linux/net_namespace.h | 9 ++++++++
net/core/net_namespace.c      | 14 ++++++++
net/ipv4/devinet.c            | 12 +++++-----
3 files changed, 28 insertions(+), 7 deletions(-)
```

Index: 2.6.19-rc6-mm2/net/ipv4/devinet.c

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```
--- 2.6.19-rc6-mm2.orig/net/ipv4/devinet.c
+++ 2.6.19-rc6-mm2/net/ipv4/devinet.c
@@ -692,8 +692,7 @@ int devinet_ioctl(unsigned int cmd, void
     for (ifap = &in_dev->ifa_list; (ifa = *ifap) != NULL;
         ifap = &ifa->ifa_next) {
     if (!strcmp(ifr.ifr_name, ifa->ifa_label) &&
-        net_ns_match(ifa->ifa_net_ns,
-        current_net_ns) &&
+        net_ns_ifa_is_visible(ifa) &&
        sin_orig.sin_addr.s_addr ==
        ifa->ifa_address) {
        break; /* found */
@@ -707,13 +706,12 @@ int devinet_ioctl(unsigned int cmd, void
     for (ifap = &in_dev->ifa_list; (ifa = *ifap) != NULL;
         ifap = &ifa->ifa_next)
     if (!strcmp(ifr.ifr_name, ifa->ifa_label) &&
-        net_ns_match(ifa->ifa_net_ns,
-        current_net_ns))
+        net_ns_ifa_is_visible(ifa))
+        break;
     }
 }

- if (ifa && !net_ns_match(ifa->ifa_net_ns, current_net_ns))
+ if (ifa && !net_ns_ifa_is_visible(ifa))
     goto done;

     ret = -EADDRNOTAVAIL;
@@ -865,7 +863,7 @@ static int inet_gifconf(struct net_devic
     goto out;

     for (; ifa; ifa = ifa->ifa_next) {
- if (!net_ns_match(ifa->ifa_net_ns, current_net_ns))
```

```

+ if (!net_ns_ifa_is_visible(ifa))
    continue;
    if (!buf) {
        done += sizeof(ifr);
@@ -1213,7 +1211,7 @@ static int inet_dump_ifaddr(struct sk_buff

    for (ifa = in_dev->ifa_list, ip_idx = 0; ifa;
         ifa = ifa->ifa_next, ip_idx++) {
- if (!net_ns_match(ifa->ifa_net_ns, current_net_ns))
+ if (!net_ns_ifa_is_visible(ifa))
    continue;
    if (ip_idx < s_ip_idx)
        continue;
Index: 2.6.19-rc6-mm2/include/linux/net_namespace.h
=====
--- 2.6.19-rc6-mm2.orig/include/linux/net_namespace.h
+++ 2.6.19-rc6-mm2/include/linux/net_namespace.h
@@ -6,6 +6,8 @@
#include <linux/errno.h>
#include <linux/types.h>

+struct in_ifaddr;
+
struct net_ns_net_device {
    struct hlist_head *name_head;
    struct hlist_head *index_head;
@@ -96,6 +98,8 @@ extern __be32 net_ns_select_source_addr

extern struct net_namespace *net_ns_find_from_dest_addr(u32 daddr);

+extern int net_ns_ifa_is_visible(const struct in_ifaddr *ifa);
+
#define SELECT_SRC_ADDR net_ns_select_source_address

#else /* CONFIG_NET_NS */
@@ -165,6 +169,11 @@ static inline struct net_namespace *net_
    return current_net_ns;
}

+static inline int net_ns_ifa_is_visible(const struct in_ifaddr *ifa)
+{
+ return 1;
+}
+
#define SELECT_SRC_ADDR inet_select_addr

#endif /* !CONFIG_NET_NS */
Index: 2.6.19-rc6-mm2/net/core/net_namespace.c

```

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--- 2.6.19-rc6-mm2.orig/net/core/net_namespace.c

+++ 2.6.19-rc6-mm2/net/core/net_namespace.c

@@ -403,4 +403,18 @@ out_unlock_both:

```
    return net_ns;
}
+
+int net_ns_ifa_is_visible(const struct in_ifaddr *ifa)
+{
+ struct net_namespace *net_ns = current_net_ns;
+
+ if (LOOPBACK(ifa->ifa_local))
+ return 1;
+
+ if (net_ns_match(ifa->ifa_net_ns, net_ns))
+ return 1;
+
+ return 0;
+}
+
#endif /* CONFIG_NET_NS */
```

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