

Subject: [patch 11/20] [Network namespace] Check the bind address is allowed. It must match ifaddr assigned t

Posted by [Daniel Lezcano](#) on Sun, 10 Dec 2006 21:58:28 GMT

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```
include/linux/net_namespace.h | 7 +++++++
net/core/net_namespace.c      | 40 +++++++++++++++++++++++++++++++++++++
net/ipv4/af_inet.c            | 2 ++
net/ipv4/raw.c                 | 3 +++
4 files changed, 52 insertions(+)
```

Index: 2.6.19-rc6-mm2/net/ipv4/af\_inet.c

```
=====
--- 2.6.19-rc6-mm2.orig/net/ipv4/af_inet.c
+++ 2.6.19-rc6-mm2/net/ipv4/af_inet.c
@@ -433,6 +433,8 @@ int inet_bind(struct socket *sock, struc
 * is temporarily down)
 */
err = -EADDRNOTAVAIL;
+ if (net_ns_check_bind(chk_addr_ret, addr->sin_addr.s_addr))
+ goto out;
if (!sysctl_ip_nonlocal_bind &&
    !inet->freebind &&
    addr->sin_addr.s_addr != INADDR_ANY &&
```

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

```
=====
--- 2.6.19-rc6-mm2.orig/net/ipv4/raw.c
+++ 2.6.19-rc6-mm2/net/ipv4/raw.c
@@ -559,7 +559,10 @@ static int raw_bind(struct sock *sk, str
if (sk->sk_state != TCP_CLOSE || addr_len < sizeof(struct sockaddr_in))
goto out;
chk_addr_ret = inet_addr_type(addr->sin_addr.s_addr);
+
ret = -EADDRNOTAVAIL;
+ if (net_ns_check_bind(chk_addr_ret, addr->sin_addr.s_addr))
+ goto out;
if (addr->sin_addr.s_addr && chk_addr_ret != RTN_LOCAL &&
    chk_addr_ret != RTN_MULTICAST && chk_addr_ret != RTN_BROADCAST)
goto out;
```

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
@@ -88,6 +88,8 @@ extern int hlist_dev_name_init(struct ne
```



```
+         for_ifa(in_dev) {
+             if (ifa->ifa_net_ns != net_ns)
+                 continue;
+         if (addr == ifa->ifa_local ||
+             addr == ifa->ifa_broadcast ||
+             addr == (ifa->ifa_local & ifa->ifa_mask) ||
+             addr == ((ifa->ifa_address & ifa->ifa_mask) |
+                 ~ifa->ifa_mask)) {
+             ret = 0;
+             goto out;
+         }
+     } endfor_ifa(in_dev);
+ }
+out:
+     read_unlock(&dev_base_lock);
+     rcu_read_unlock();
+
+ return ret;
+}
+
+endif /* CONFIG_NET_NS */
```

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