
Subject: [PATCH] [NETNS 1/4 net-2.6.25] Double free in netlink_release.

Posted by [den](#) on Fri, 18 Jan 2008 12:53:13 GMT

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Netlink protocol table is global for all namespaces. Some netlink protocols have been virtualized, i.e. they have per/namespace netlink socket. This difference can easily lead to double free if more than 1 namespace is started. Count the number of kernel netlink sockets to track that this table is not used any more.

Signed-off-by: Denis V. Lunev <den@openvz.org>

Tested-by: Alexey Dobriyan <adobriyan@openvz.org>

`net/netlink/af_netlink.c | 10 ++++++++--`

`1 files changed, 7 insertions(+), 3 deletions(-)`

`diff --git a/net/netlink/af_netlink.c b/net/netlink/af_netlink.c`

`index 21f9e30..29fef55 100644`

`--- a/net/netlink/af_netlink.c`

`+++ b/net/netlink/af_netlink.c`

`@@ -498,9 +498,12 @@ static int netlink_release(struct socket *sock)`

```
netlink_table_grab();
if (netlink_is_kernel(sk)) {
- kfree(nl_table[sk->sk_protocol].listeners);
- nl_table[sk->sk_protocol].module = NULL;
- nl_table[sk->sk_protocol].registered = 0;
+ BUG_ON(nl_table[sk->sk_protocol].registered == 0);
+ if (--nl_table[sk->sk_protocol].registered == 0) {
+ kfree(nl_table[sk->sk_protocol].listeners);
+ nl_table[sk->sk_protocol].module = NULL;
+ nl_table[sk->sk_protocol].registered = 0;
+ }
} else if (nlk->subscriptions)
    netlink_update_listeners(sk);
netlink_table_ungrab();
@@ -1389,6 +1392,7 @@ static int netlink_kernel_create(struct net *net, int unit, unsigned int groups,
    nl_table[unit].registered = 1;
} else {
    kfree(listeners);
+ nl_table[unit].registered++;
}
netlink_table_ungrab();
```

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1.5.3.rc5
