

## index: kernel/git/torvalds/linux.git

master 🗸 switch

Linux kernel source tree

**Linus Torvalds** 

about summary refs log tree commit diff stats log msg ▼ search

author Taehee Yoo <ap420073@gmail.com> 2021-07-05 15:38:07 +0000 committer David S. Miller <davem@davemloft.net> 2021-07-06 10:36:59 -0700

commit 105cd17a866017b45f3c45901b394c711c97bf40 (patch)

tree d3fb4428abaa48a8284441a2db9674661054c6c9

parent b648eba4c69e5819880b4907e7fcb2bb576069ab (diff)

download linux-105cd17a866017b45f3c45901b394c711c97bf40.tar.gz

## context: 3 v space: include v mode: unified v

## bonding: fix null dereference in bond\_ipsec\_add\_sa()

```
If bond doesn't have real device, bond->curr active slave is null.
But bond ipsec add sa() dereferences bond->curr active slave without
null checking.
So, null-ptr-deref would occur.
Test commands:
   ip link add bond0 type bond
   ip link set bond0 up
    ip x s add proto esp dst 14.1.1.1 src 15.1.1.1 spi \
0x07 mode transport regid 0x07 replay-window 32 aead 'rfc4106(gcm(aes))' \
0x44434241343332312423222114131211f4f3f2f1 128 sel src 14.0.0.52/24 \
dst 14.0.0.70/24 proto tcp offload dev bond0 dir in
Splat looks like:
CPU: 4 PID: 680 Comm: ip Not tainted 5.13.0-rc3+ #1168
RIP: 0010:bond ipsec add sa+0xc4/0x2e0 [bonding]
Code: 85 21 02 00 00 4d 8b a6 48 0c 00 00 e8 75 58 44 ce 85 c0 0f 85 14
01 00 00 48 b8 00 00 00 00 00 fc ff df 4c 89 e2 48 c1 ea 03 <80> 3c 02
00 Of 85 fc 01 00 00 48 8d bb e0 02 00 00 4d 8b 2c 24 48
RSP: 0018:ffff88810946f508 EFLAGS: 00010246
RAX: dffffc0000000000 RBX: ffff88810b4e8040 RCX: 000000000000001
RDX: 000000000000000 RSI: ffffffff8fe34280 RDI: ffff888115abe100
RBP: ffff88810946f528 R08: 00000000000003 R09: fffffbfff2287e11
R10: 000000000000000 R11: ffff888115abe0c8 R12: 0000000000000000
R13: ffffffffc0aea9a0 R14: ffff88800d7d2000 R15: ffff88810b4e8330
FS: 00007efc5552e680(0000) GS:ffff888119c00000(0000)
knlGS:0000000000000000
CS: 0010 DS: 0000 ES: 0000 CRO: 000000080050033
CR2: 000055c2530dbf40 CR3: 0000000103056004 CR4: 0000000003706e0
DRO: 00000000000000 DR1: 0000000000000 DR2: 00000000000000
DR3: 000000000000000 DR6: 00000000fffe0ff0 DR7: 000000000000400
Call Trace:
 xfrm dev state add+0x2a9/0x770
 ? memcpy+0x38/0x60
 xfrm add sa+0x2278/0x3b10 [xfrm user]
 ? xfrm get policy+0xaa0/0xaa0 [xfrm user]
 ? register lock class+0x1750/0x1750
 xfrm user rcv msg+0x331/0x660 [xfrm user]
 ? rcu read lock sched held+0x91/0xc0
 ? xfrm user state lookup.constprop.39+0x320/0x320 [xfrm user]
 ? find held lock+0x3a/0x1c0
 ? mutex lock io nested+0x1210/0x1210
```

```
? sched_clock_cpu+0x18/0x170
netlink_rcv_skb+0x121/0x350
? xfrm_user_state_lookup.constprop.39+0x320/0x320 [xfrm_user]
? netlink_ack+0x9d0/0x9d0
? netlink_deliver_tap+0x17c/0xa50
    xfrm_netlink_rcv+0x68/0x80 [xfrm_user]
    netlink_unicast+0x41c/0x610
? netlink_attachskb+0x710/0x710
    netlink_sendmsg+0x6b9/0xb70
[ ...]

Fixes: 18cb261afd7b ("bonding: support hardware encryption offload to slaves")
Signed-off-by: Taehee Yoo <ap420073@gmail.com>
Signed-off-by: David S. Miller <davem@davemloft.net>
```

## **Diffstat**

-rw-r--r-- drivers/net/bonding/bond\_main.c 5

1 files changed, 5 insertions, 0 deletions

generated by cgit (git 2.34.1) at 2022-11-26 22:09:07 +0000