```
"commit": "04c2a47ffb13c29778e2a14e414ad4cb5a5db4b5",
"details": [
 "net: sched: fix use-after-free in tc_new tfilter()",
"Whenever tc_new_tfilter() jumps back to replay: label,",
"we need to make sure @q and @chain local variables are cleared again,",
 "or risk use-after-free as in [1]",
"For consistency, apply the same fix in tc_ctl_chain()",
 "BUG: KASAN: use-after-free in mini_qdisc_pair_swap+0x1b9/0x1f0 net/sched/sch_generic.c:1581",
 "Write of size 8 at addr ffff8880985c4b08 by task syz-executor.4/1945",
 "CPU: 0 PID: 1945 Comm: syz-executor.4 Not tainted 5.17.0-rc1-syzkaller-00495-gff58831fa02d #0",
 "Hardware name: Google Google Compute Engine/Google Compute Engine, BIOS Google 01/01/2011",
 "Call Trace:",
 " <TASK>",
    _dump_stack lib/dump_stack.c:88 [inline]",
 " dump_stack_lvl+0xcd/0x134 lib/dump_stack.c:106",
  print_address_description.constprop.0.cold+0x8d/0x336 mm/kasan/report.c:255",
     kasan report mm/kasan/report.c:442 [inline]",
  kasan_report.cold+0x83/0xdf mm/kasan/report.c:459",
 " mini_qdisc_pair_swap+0x1b9/0x1f0 net/sched/sch_generic.c:1581",
  tcf_chain_head_change_item net/sched/cls_api.c:372 [inline]"
  tcf chain0 head change.isra.0+0xb9/0x120 net/sched/cls api.c:386",
  tcf_chain_tp_insert_net/sched/cls_api.c:1657 [inline]",
tcf_chain_tp_insert_unique_net/sched/cls_api.c:1707 [inline]",
  tc_new_tfilter+0x1e67/0x2350 net/sched/cls_api.c:2086",
 " rtnetlink rcv msg+0x80d/0xb80 net/core/rtnetlink.c:5583",
  netlink_rcv_skb+0x153/0x420 net/netlink/af_netlink.c:2494"
  netlink_unicast_kernel net/netlink/af_netlink.c:1317 [inline]",
  netlink unicast+0x539/0x7e0 net/netlink/af netlink.c:1343",
  netlink sendmsg+0x904/0xe00 net/netlink/af netlink.c:1919",
  sock_sendmsg_nosec net/socket.c:705 [inline]",
  sock sendmsg+0xcf/0x120 net/socket.c:725"
  ____sys_sendmsg+0x331/0x810 net/socket.c:2413",
     sys_sendmsg+0xf3/0x170 net/socket.c:2467"
  sys_sendmmsg+0x195/0x470 net/socket.c:2553",
   __do_sys_sendmmsg net/socket.c:2582 [inline]"
  __se_sys_sendmmsg net/socket.c:2579 [inline]"
    _x64_sys_sendmmsg+0x99/0x100 net/socket.c:2579"
" do_syscall_x64 arch/x86/entry/common.c:50 [inline]",
 " do_syscall_64+0x35/0xb0 arch/x86/entry/common.c:80",
 " entry_SYSCALL_64_after_hwframe+0x44/0xae",
 "RIP: 0033:0x7f2647172059",
 "Code: ff ff c3 66 2e 0f 1f 84 00 00 00 00 00 0f 1f 40 00 48 89 f8 48 89 f7 48 89 d6 48 89 ca 4d 89 c2 4d 89 c8 4c 8b 4c 24 08 0f 05 <48> 3c
 "RSP: 002b:00007f2645aa5168 EFLAGS: 00000246 ORIG RAX: 000000000000133",
 "RAX: ffffffffffffda RBX: 00007f2647285100 RCX: 00007f2647172059",
 "RBP: 00007f26471cc08d R08: 00000000000000 R09: 00000000000000"
 "R10: 9e000000000000 R11: 000000000000246 R12: 00000000000000",
"R13: 00007fffb3f7f02f R14: 00007f2645aa5300 R15: 0000000000022000",
 " </TASK>",
 "Allocated by task 1944:",
  kasan_save_stack+0x1e/0x40 mm/kasan/common.c:38",
  kasan_set_track mm/kasan/common.c:45 [inline]",
set_alloc_info mm/kasan/common.c:436 [inline]",
       kasan kmalloc mm/kasan/common.c:515 [inline]
       kasan kmalloc mm/kasan/common.c:474 [inline]'
     kasan kmalloc+0xa9/0xd0 mm/kasan/common.c:524",
  kmalloc_node include/linux/slab.h:604 [inline]",
  kzalloc node include/linux/slab.h:726 [inline]"
  qdisc_alloc+0xac/0xa10 net/sched/sch_generic.c:941",
qdisc_create.constprop.0+0xce/0x10f0 net/sched/sch_api.c:1211",
   tc modify qdisc+0x4c5/0x1980 net/sched/sch api.c:1660
 " rtnetlink rcv msg+0x413/0xb80 net/core/rtnetlink.c:5592",
 " netlink_rcv_skb+0x153/0x420 net/netlink/af_netlink.c:2494"
  netlink_unicast_kernel net/netlink/af_netlink.c:1317 [inline]",
  netlink unicast+0x539/0x7e0 net/netlink/af netlink.c:1343",
  netlink sendmsg+0x904/0xe00 net/netlink/af netlink.c:1919",
  sock sendmsg nosec net/socket.c:705 [inline]",
  sock sendmsg+0xcf/0x120 net/socket.c:725",
       sys sendmsg+0x331/0x810 net/socket.c:2413",
      sys sendmsg+0xf3/0x170 net/socket.c:2467",
     sys_sendmmsg+0x195/0x470 net/socket.c:2553",
  __do_sys_sendmmsg net/socket.c:2582 [inline]",
  __se_sys_sendmmsg net/socket.c:2579 [inline]"
     x64 sys sendmmsg+0x99/0x100 net/socket.c:2579"
  do_syscall_x64 arch/x86/entry/common.c:50 [inline]"
  do syscall 64+0x35/0xb0 arch/x86/entry/common.c:80",
  entry_SYSCALL_64_after_hwframe+0x44/0xae",
"Freed by task 3609:",
" kasan save stack+0x1e/0x40 mm/kasan/common.c:38",
" kasan_set_track+0x21/0x30 mm/kasan/common.c:45",
  kasan set free info+0x20/0x30 mm/kasan/generic.c:370",
       kasan_slab_free mm/kasan/common.c:366 [inline]",
       kasan slab free+0x130/0x160 mm/kasan/common.c:328".
" kasan slab free include/linux/kasan.h:236 [inline]",
  slab free hook mm/slub.c:1728 [inline]",
  slab free freelist hook+0x8b/0x1c0 mm/slub.c:1754",
  slab free mm/slub.c:3509 [inline]",
  kfree+0xcb/0x280 mm/slub.c:4562"
 " rcu do batch kernel/rcu/tree.c:2527 [inline]",
 " rcu core+0x7b8/0x1540 kernel/rcu/tree.c:2778",
```

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__do_softirq+0x29b/0x9c2 kernel/softirq.c:558",
"Last potentially related work creation:",
  kasan_save_stack+0x1e/0x40 mm/kasan/common.c:38",
  __kasan_record_aux_stack+0xbe/0xd0 mm/kasan/generic.c:348",
    call rcu kernel/rcu/tree.c:3026 [inline]",
  call_rcu+0xb1/0x740 kernel/rcu/tree.c:3106"
  qdisc_put_unlocked+0x6f/0x90 net/sched/sch_generic.c:1109",
  tcf_block_release+0x86/0x90 net/sched/cls_api.c:1238",
  tc_new_tfilter+0xc0d/0x2350 net/sched/cls_api.c:2148"
  rtnetlink rcv msg+0x80d/0xb80 net/core/rtnetlink.c:5583".
  netlink rcv skb+0x153/0x420 net/netlink/af netlink.c:2494",
  netlink unicast kernel net/netlink/af netlink.c:1317 [inline]",
  netlink unicast+0x539/0x7e0 net/netlink/af netlink.c:1343",
  netlink sendmsg+0x904/0xe00 net/netlink/af netlink.c:1919",
  sock_sendmsg_nosec net/socket.c:705 [inline]",
  sock sendmsg+0xcf/0x120 net/socket.c:725",
      sys sendmsg+0x331/0x810 net/socket.c:2413",
     sys sendmsg+0xf3/0x170 net/socket.c:2467",
    sys sendmmsg+0x195/0x470 net/socket.c:2553"
  __do_sys_sendmmsg net/socket.c:2582 [inline]"
  __se_sys_sendmmsg net/socket.c:2579 [inline]
 ____x64_sys_sendmmsg+0x99/0x100 net/socket.c:2579",
do_syscall_x64_arch/x86/entry/common.c:50 [inline]",
do_syscall_64+0x35/0xb0 arch/x86/entry/common.c:80",
" entry SYSCALL 64 after hwframe+0x44/0xae",
"The buggy address belongs to the object at \frac{ffff8880985c4800}{}",
"which belongs to the cache kmalloc-lk of size 1024",
"The buggy address is located 776 bytes inside of",
" 1024-byte region [ffff8880985c4800, ffff8880985c4c00)",
"The buggy address belongs to the page:",
"page: ffffea0002617000 refcount: 1 mapcount: 0 mapping: 00000000000000 index: 0x0 pfn: 0x985c0",
"head: ffffea0002617000 order: 3 compound mapcount: 0 compound pincount: 0",
"flags: 0xfff00000010200(slab|head|node=0|zone=1|lastcpupid=0x7ff)",
"page_owner tracks the page as allocated",
"page last allocated via order 3, migratetype Unmovable, gfp_mask 0x1d20c0(__GFP_IO|__GFP_FS|__GFP_NOWARN|__GFP_NORETRY|__GFP_COMP|__GFP_NOW
  prep new page mm/page alloc.c:2434 [inline]",
 get_page_from_freelist+0xa72/0x2f50 mm/page_alloc.c:4165",
    _alloc_pages+0x1b2/0x500 mm/page_alloc.c:5389",
  alloc pages+0x1aa/0x310 mm/mempolicy.c:2271",
  alloc slab page mm/slub.c:1799 [inline]",
  allocate slab mm/slub.c:1944 [inline]",
  new slab+0x28a/0x3b0 mm/slub.c:2004"
     slab alloc+0x87c/0xe90 mm/slub.c:3018",
    slab alloc.constprop.0+0x4d/0xa0 mm/slub.c:3105",
  slab alloc node mm/slub.c:3196 [inline]",
  slab alloc mm/slub.c:3238 [inline]"
    kmalloc+0x2fb/0x340 mm/slub.c:4420"
  kmalloc include/linux/slab.h:586 [inline]",
  kzalloc include/linux/slab.h:715 [inline]",
    register sysctl table+0x112/0x1090 fs/proc/proc sysctl.c:1335",
  neigh sysctl register+0x2c8/0x5e0 net/core/neighbour.c:3787",
  devinet sysctl register+0xb1/0x230 net/ipv4/devinet.c:2618",
  inetdev init+0x286/0x580 net/ipv4/devinet.c:278"
  inetdev_event+0xa8a/0x15d0 net/ipv4/devinet.c:1532",
  notifier_call_chain+0xb5/0x200 kernel/notifier.c:84",
 call_netdevice_notifiers_info+0xb5/0x130 net/core/dev.c:1919",
call_netdevice_notifiers_extack net/core/dev.c:1931 [inline]",
  call netdevice notifiers net/core/dev.c:1945 [inline]",
  register netdevice+0x1073/0x1500 net/core/dev.c:9698",
  veth newlink+0x59c/0xa90 drivers/net/veth.c:1722"
"page last free stack trace:",
  reset_page_owner include/linux/page_owner.h:24 [inline]",
  free_pages_prepare mm/page_alloc.c:1352 [inline]",
free_pcp_prepare+0x374/0x870 mm/page_alloc.c:1404"
  free_unref_page_prepare mm/page_alloc.c:3325 [inline]", free_unref_page+0x19/0x690 mm/page_alloc.c:3404",
  release pages+0x748/0x1220 mm/swap.c:956"
  tlb_batch_pages_flush mm/mmu_gather.c:50 [inline]",
  tlb_flush_mmu_free mm/mmu_gather.c:243 [inline]"
  tlb_flush_mmu+0xe9/0x6b0 mm/mmu_gather.c:250",
  zap_pte_range mm/memory.c:1441 [inline]",
  zap pmd range mm/memory.c:1490 [inline]",
  zap_pud_range mm/memory.c:1519 [inline]",
  zap_p4d_range mm/memory.c:1540 [inline]",
  unmap_page_range+0x1d1d/0x2a30 mm/memory.c:1561",
  unmap_single_vma+0x198/0x310 mm/memory.c:1606", unmap_vmas+0x16b/0x2f0 mm/memory.c:1638",
  exit mmap+0x201/0x670 mm/mmap.c:3178"
   _mmput+0x122/0x4b0 kernel/fork.c:1114"
  mmput+0x56/0x60 kernel/fork.c:1135",
  exit_mm kernel/exit.c:507 [inline]"
  do_exit+0xa3c/0x2a30 kernel/exit.c:793"
  do_group_exit+0xd2/0x2f0 kernel/exit.c:935"
   _do_sys_exit_group kernel/exit.c:946 [inline]",
  __se_sys_exit_group kernel/exit.c:944 [inline]"
    x64_sys_exit_group+0x3a/0x50 kernel/exit.c:944"
 do syscall x64 arch/x86/entry/common.c:50 [inline]", do_syscall_64+0x35/0xb0 arch/x86/entry/common.c:80",
  entry_SYSCALL_64_after_hwframe+0x44/0xae",
"Memory state around the buggy address:",
```

```
"Fixes: 470502de5bdb (\"net: sched: unlock rules update API\")",
"Signed-off-by: Eric Dumazet <edumazet@google.com>",
 "Cc: Vlad Buslov <vladbu@mellanox.com>",
 "Cc: Jiri Pirko <jiri@mellanox.com>",
 "Cc: Cong Wang <xiyou.wangcong@gmail.com>",
"Reported-by: syzbot <syzkaller@googlegroups.com>",
"Link: https://lore.kernel.org/r/20220131172018.3704490-1-eric.dumazet@gmail.com",
"Signed-off-by: Jakub Kicinski <kuba@kernel.org>"
"the commit landed on upstream on": [
  "tags": "tags/v5.17-rc3~29^2~16"
}
"the commit is a backport of": [],
"the commit was backported to": [
 "tags": "tags/v5.16.6~10",
"commit": "<u>95e34f61b58a152656cbe8d6e19843cc343fb089</u>"
},
{
    "tags": "tags/v5.4.177~4",
    "1317~920dfcd4b
 "commit": "bld17e920dfcd4b56fa2edced5710c191f7e50b5"
 },
 "tags": "tags/v5.10.97~5",
 "commit": "e7be56926397cf9d992be8913f74a76152f8f08d"
 "tags": "tags/v5.15.20~7",
"commit": "<u>f36cacd6c933183c1a8827d5987cf2cfc0a44c76</u>"
"the commit fixes a bug introduced by": [
{
    "fixes": "470502de5bdb (\"net: sched: unlock rules update API\")"
}
"the buggy commit landed on upstream on": [
 "tags": "tags/v5.1-rc1~178^2~254^2",
 "commit": "<u>470502de5bdbled0def643a4458593a40b8f6b66</u>"
"the buggy commit was backported to": [],
"the commit introduced a bug fixed by": [],
"syzkaller reference for the commit and the fix commit": [
"reported_by": "syzbot <syzkaller@googlegroups.com>",
"commit": "04c2a47ffb13c29778e2a14e414ad4cb5a5db4b5"
}
"cve identifier for the commit and the fix commit": [
  "cve": "<u>CVE-2022-1055</u>"
```