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Linux kernel stable tree

Stable Group

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committer Greg Kroah-Hartman <gregkh@linuxfoundation.org> 2022-11-16 09:58:23 +0100
commit [a8d67367ab33604326cc37ab44fd1801bf5691ba](#) (patch)
tree [118c9096b2c311fd63b58ba96ea9e0c79c8b104e](#)
parent [7b194dd32b131ee1addc0f6713c76308e1aaab82](#) (diff)
download [linux-a8d67367ab33604326cc37ab44fd1801bf5691ba.tar.gz](#)

diff options

context:
space:
mode:

net: macvlan: fix memory leaks of macvlan_common_newlink

[Upstream commit 23569b5652ee8e8e55a12f7835f59af6f3cefc30]

kmemleak reports memory leaks in macvlan_common_newlink, as follows:

```
ip link add link eth0 name .. type macvlan mode source macaddr add
<MAC-ADDR>
```

kmemleak reports:

```
unreferenced object 0xfffff8880109bb140 (size 64):
  comm "ip", pid 284, jiffies 4294986150 (age 430.108s)
  hex dump (first 32 bytes):
    00 00 00 00 00 00 00 00 b8 aa 5a 12 80 88 ff ff  ....Z.....
    80 1b fa 0d 80 88 ff ff 1e ff ac af c7 c1 6b 6b  ....kk
  backtrace:
    [
```

In the scenario where the macvlan mode is configured as 'source', macvlan_changelink_sources() will be executed to reconfigure list of remote source mac addresses, at the same time, if register_netdevice() return an error, the resource generated by macvlan_changelink_sources() is not cleaned up.

Using this patch, in the case of an error, it will execute macvlan_flush_sources() to ensure that the resource is cleaned up.

Fixes: [aa5fd0fb7748](#) ("driver: macvlan: Destroy new macvlan port if macvlan_common_newlink failed.")
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Diffstat

-rw-r--r-- [drivers/net/macvlan.c](#) 4

1 files changed, 3 insertions, 1 deletions

```
diff --git a/drivers/net/macvlan.c b/drivers/net/macvlan.c
index 6363459ba1d051..cdc238dda1e1f6 100644
--- a/drivers/net/macvlan.c
+++ b/drivers/net/macvlan.c
@@ -1521,8 +1521,10 @@ destroy_macvlan_port:
     /* the macvlan port may be freed by macvlan_uninit when fail to register.
      * so we destroy the macvlan port only when it's valid.
      */
-    if (create && macvlan_port_get_rtnl(lowerdev))
+    if (create && macvlan_port_get_rtnl(lowerdev)) {
+        macvlan_flush_sources(port, vlan);
+        macvlan_port_destroy(port->dev);
+    }
     return err;
 }
EXPORT_SYMBOL_GPL(macvlan_common_newlink);
```