

[about](#) [summary](#) [refs](#) [log](#) [tree](#) [commit](#) [diff](#) [stats](#)

log msg

search

author Chuang Wang <nashuiliang@gmail.com> 2022-11-09 17:07:34 +0800
committer Greg Kroah-Hartman <gregkh@linuxfoundation.org> 2022-11-25 17:40:18 +0100
commit [a81b44d1df1f07f00c0dcc0a0b3d2fa24a46289e](#) (patch)
tree [1e4163f28117e6635c565800541ac7f79c5e0f2a](#)
parent [ad9cfa9eb969b8a38a85e367070c1cfc117e8892](#) (diff)
download [linux-a81b44d1df1f07f00c0dcc0a0b3d2fa24a46289e.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:
    [<ffffffffff813e06a7>] kmem_cache_alloc_trace+0x1c7/0x300
    [<ffffffffff81b66025>] macvlan_hash_add_source+0x45/0xc0
    [<ffffffffff81b66a67>] macvlan_changelink_sources+0xd7/0x170
    [<ffffffffff81b6775c>] macvlan_common_newlink+0x38c/0x5a0
    [<ffffffffff81b6797e>] macvlan_newlink+0xe/0x20
    [<ffffffffff81d97f8f>] __rtnl_newlink+0x7af/0xa50
    [<ffffffffff81d98278>] rtnl_newlink+0x48/0x70
    ...
```

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.")
Signed-off-by: Chuang Wang <nashuiliang@gmail.com>
Link: <https://lore.kernel.org/r/20221109090735.690500-1-nashuiliang@gmail.com>
Signed-off-by: Paolo Abeni <pabeni@redhat.com>
Signed-off-by: Sasha Levin <sasha@kernel.org>

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 e226a96da3a395..6c6fa821aad556 100644
--- a/drivers/net/macvlan.c
+++ b/drivers/net/macvlan.c
@@ -1471,8 +1471,10 @@ 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);
```