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commit 6f5780536181d1d0d09a11a1bc92f22e143447e2 (patch)
tree 861536ef33283d4900cfe77faf834b5b11b59e18
parent 882b988a3897062abed5f935de527797913f5876 (diff)
download linux-6f5780536181d1d0d09a11a1bc92f22e143447e2.tar.gz

diff options

context: 3
space: include
mode: unified

net/mlx5: Fix steering rules cleanup

[Upstream commit 922f56e9a795d6f3dd72d3428ebdd7ee040fa855]

vport's mc, uc and multicast rules are not deleted in teardown path when EEH happens. Since the vport's promisc settings(uc, mc and all) in firmware are reset after EEH, mlx5 driver will try to delete the above rules in the initialization path. This cause kernel crash because these software rules are no longer valid.

Fix by nullifying these rules right after delete to avoid accessing any dangling pointers.

Call Trace:

```
__list_del_entry_valid+0xcc/0x100 [unreliable]
tree_put_node+0xf4/0x1b0 [mlx5_core]
tree_remove_node+0x30/0x70 [mlx5_core]
mlx5_del_flow_rules+0x14c/0x1f0 [mlx5_core]
esw_apply_vport_rx_mode+0x10c/0x200 [mlx5_core]
esw_update_vport_rx_mode+0xb4/0x180 [mlx5_core]
esw_vport_change_handle_locked+0x1ec/0x230 [mlx5_core]
esw_enable_vport+0x130/0x260 [mlx5_core]
mlx5_eswitch_enable_sriov+0x2a0/0x2f0 [mlx5_core]
mlx5_device_enable_sriov+0x74/0x440 [mlx5_core]
mlx5_load_one+0x114c/0x1550 [mlx5_core]
mlx5_pci_resume+0x68/0xf0 [mlx5_core]
eeh_report_resume+0x1a4/0x230
eeh_pe_dev_traverse+0x98/0x170
eeh_handle_normal_event+0x3e4/0x640
eeh_handle_event+0x4c/0x370
eeh_event_handler+0x14c/0x210
kthread+0x168/0x1b0
ret_from_kernel_thread+0x5c/0x84
```

Fixes: a35f71f27a61 ("net/mlx5: E-Switch, Implement promiscuous rx modes vf request handling")

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Diffstat

```
-rw-r--r-- drivers/net/ethernet/mellanox/mlx5/core/eswitch.c 1
```

1 files changed, 1 insertions, 0 deletions

diff --git a/drivers/net/ethernet/mellanox/mlx5/core/eswitch.c b/drivers/net/ethernet/mellanox/mlx5/core/eswitch.c

index 9daf55e90367b1..c8b978014f2c08 100644

--- a/drivers/net/ethernet/mellanox/mlx5/core/eswitch.c

+++ b/drivers/net/ethernet/mellanox/mlx5/core/eswitch.c

@@ -959,6 +959,7 @@ void mlx5_esw_vport_disable(struct mlx5_eswitch *esw, u16 vport_num)

*/

esw_vport_change_handle_locked(vport);

```
vport->enabled_events = 0;  
+ esw_apply_vport_rx_mode(esw, vport, false, false);  
esw_vport_cleanup(esw, vport);  
esw->enabled_vports--;
```