Rocky Enterprise Linux 9.2 Manual Pages on command 'tc-mirred.8'

$ man tc-mirred.8

Mirror/redirect action in tc(8)   Linux   Mirror/redirect action in tc(8)

NAME

    mirred - mirror/redirect action

SYNOPSIS

    tc ... action mirred DIRECTION ACTION [index INDEX] dev DEVICENAME

    DIRECTION := { ingress | egress }

    ACTION := { mirror | redirect }

DESCRIPTION

    The mirred action allows packet mirroring (copying) or redirecting

    (stealing) the packet it receives. Mirroring is what is sometimes re?

    ferred to as Switch Port Analyzer (SPAN) and is commonly used to ana?

    lyze and/or debug flows.

OPTIONS

   ingress

   egress Specify the direction in which the packet shall appear on the

      destination interface.

   mirror

   redirect

      Define whether the packet should be copied (mirror) or moved

      (redirect) to the destination interface.

   index INDEX

      Assign a unique ID to this action instead of letting the kernel

      choose one automatically.   INDEX is a 32bit unsigned integer

      greater than zero.

   dev DEVICENAME

      Specify the network interface to redirect or mirror to.

EXAMPLES

   Limit ingress bandwidth on eth0 to 1mbit/s, redirect exceeding traffic

   to lo for debugging purposes:

      # tc qdisc add dev eth0 handle ffff: ingress

      # tc filter add dev eth0 parent ffff: u32 \

         match u32 0 0 \

         action police rate 1mbit burst 100k conform-exceed pipe \

         action mirred egress redirect dev lo

   Mirror all incoming ICMP packets on eth0 to a dummy interface for exam?

   ination with e.g. tcpdump:

      # ip link add dummy0 type dummy

      # ip link set dummy0 up

```
# tc qdisc add dev eth0 handle ffff: ingress

# tc filter add dev eth0 parent ffff: protocol ip \

    u32 match ip protocol 1 0xff \

    action mirred egress mirror dev dummy0
```

Using an ifb interface, it is possible to send ingress traffic through
an instance of sfq:

```
# modprobe ifb

# ip link set ifb0 up

# tc qdisc add dev ifb0 root sfq

# tc qdisc add dev eth0 handle ffff: ingress

# tc filter add dev eth0 parent ffff: u32 \

    match u32 0 0 \

    action mirred egress redirect dev ifb0
```

SEE ALSO

    tc(8), tc-u32(8)