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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 referred to as Switch Port Analyzer (SPAN) and is commonly used to analyze 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 mirrored egress redirect dev lo
```

Mirror all incoming ICMP packets on eth0 to a dummy interface for examination 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 mirrored 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)

iproute2

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