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

\$ man tc-cgroup.8

Cgroup classifier in tc(8)

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NAME

cgroup - control group based traffic control filter

Linux

SYNOPSIS

tc filter ... cgroup [match EMATCH_TREE] [action ACTION_SPEC]

DESCRIPTION

This filter serves as a hint to tc that the assigned class ID of the net_cls control group the process the packet originates from belongs to should be used for classification. Obviously, it is useful for locally generated packets only.

OPTIONS

action ACTION_SPEC

Apply an action from the generic actions framework on matching

packets.

match EMATCH_TREE

Match packets using the extended match infrastructure. See tcematch(8) for a detailed description of the allowed syntax in EMATCH_TREE.

EXAMPLES

In order to use this filter, a net_cls control group has to be created first and class as well as process ID(s) assigned to it. The following creates a net_cls cgroup named "foobar":

modprobe cls_cgroup mkdir /sys/fs/cgroup/net_cls mount -t cgroup -onet_cls net_cls /sys/fs/cgroup/net_cls mkdir /sys/fs/cgroup/net_cls/foobar

To assign a class ID to the created cgroup, a file named net_cls.clas? sid has to be created which contains the class ID to be assigned as a hexadecimal, 64bit wide number. The upper 32bits are reserved for the major handle, the remaining hold the minor. So a class ID of e.g. ff:be has to be written like so: 0xff00be (leading zeroes may be omit? ted). To continue the above example, the following assigns class ID 1:2 to foobar cgroup:

echo 0x10002 > /sys/fs/cgroup/net_cls/foobar/net_cls.classid

Finally some PIDs can be assigned to the given cgroup:

echo 1234 > /sys/fs/cgroup/net_cls/foobar/tasks echo 5678 > /sys/fs/cgroup/net_cls/foobar/tasks

Now by simply attaching a cgroup filter to a qdisc makes packets from

PIDs 1234 and 5678 be pushed into class 1:2.

SEE ALSO

tc(8), tc-ematch(8),

the file Documentation/cgroups/net_cls.txt of the Linux kernel tree

iproute2 21 Oct 2015 Cgroup classifier in tc(8)