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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'tc-cgroup.8' command

\$ man tc-cgroup.8

Cgroup classifier in tc(8) Linux Cgroup classifier in tc(8)

NAME

cgroup - control group based traffic control filter

SYNOPSIS

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

DESCRIPTION

This filter serves as a hint to to 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. Page 1/3

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