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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)                      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 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 tc-emark(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 "foo? bar":

```
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.classid 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 omitted). 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