NAME

vlan - vlan manipulation module

SYNOPSIS

```
tc ... action vlan { pop | PUSH | MODIFY } [ CONTROL ]

PUSH := push [ protocol VLANPROTO ] [ priority VLANPRIO ] id VLANID

MODIFY := modify [ protocol VLANPROTO ] [ priority VLANPRIO ] id VLANID
```

CONTROL := { reclassify | pipe | drop | continue | pass | goto chain CHAIN_INDEX }

DESCRIPTION

The **vlan** action allows to perform 802.1Q en- or decapsulation on a packet, reflected by the operation modes *POP*, *PUSH* and *MODIFY*. The *POP* mode is simple, as no further information is required to just drop the outer-most VLAN encapsulation. The *PUSH* and *MODIFY* modes require at least a *VLANID* and allow to optionally choose the *VLANPROTO* to use.

OPTIONS

pop Decapsulation mode, no further arguments allowed.

push Encapsulation mode. Requires at least id option.

modify Replace mode. Existing 802.1Q tag is replaced. Requires at least id option.

id VLANID

Specify the VLAN ID to encapsulate into. *VLANID* is an unsigned 16bit integer, the format is detected automatically (e.g. prefix with '**0x**' for hexadecimal interpretation, etc.).

protocol VLANPROTO

Choose the VLAN protocol to use. At the time of writing, the kernel accepts only 802.1Q or 802.1ad.

priority VLANPRIO

Choose the VLAN priority to use. Decimal number in range of 0-7.

CONTROL

How to continue after executing this action.

reclassify

Restarts classification by jumping back to the first filter attached to this action's parent.

pipe Continue with the next action, this is the default.

drop Packet will be dropped without running further actions.

continue

Continue classification with next filter in line.

pass Return to calling qdisc for packet processing. This ends the classification process.

EXAMPLES

The following example encapsulates incoming ICMP packets on eth0 from 10.0.0.2 into VLAN ID 123:

Here is an example of the **pop** function: Incoming VLAN packets on eth0 are decapsulated and the classification process then restarted for the plain packet:

SEE ALSO

tc(8)