

nftables

Traffic Shaping with nftables and tc

Using shell commands:

```
nft add table ip filter
nft add map filter deucalion { type ipv4_addr : classid\; }
```

Using nftables file:

[deucalion.nft](#)

```
table ip filter {
  map deucalion {
    type ipv4_addr : classid;
    elements = { 1.1.1.2 : 2:2222, 1.1.1.3 : 3:3333 }
  }

  chain input {
    type filter hook input priority 0; policy accept;
    meta priority set ip daddr map @deucalion;
  }
}
```

Patch

This patch is already merged upstream (not in Debian yet!):

- <https://www.spinics.net/lists/netfilter/msg57694.html>
- <https://www.spinics.net/lists/netfilter/threads.html#57694>

You need it if nft shows this error:

```
<cmdline>:1:45-51: Error: syntax error, unexpected classid, expecting string
or dscp or ecn or mark
add map filter deucalion { type ipv4_addr : classid; }
                                     ^^^^^^^
<cmdline>:1:26-52: Error: map definition does not specify key data type
add map filter deucalion { type ipv4_addr : classid; }
                                     ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

[nft-classid.patch](#)

parser: allow classid as set key

From: Arturo Borrero Gonzalez <arturo@xxxxxxxxxxxxxx>

Allow TC classid as set key.

Signed-off-by: Arturo Borrero Gonzalez <arturo@xxxxxxxxxxxxxx>

src/parser_bison.y | 1 +
1 file changed, 1 insertion(+)

diff --git a/src/parser_bison.y b/src/parser_bison.y

index 7016f5b..2918875 100644

--- a/src/parser_bison.y

+++ b/src/parser_bison.y

```

@@ -1545,6 +1545,7 @@ type_identifier      :   STRING      { $$ = $1; }
    |   MARK      { $$ = xstrdup("mark"); }
    |   DSCP      { $$ = xstrdup("dscp"); }
    |   ECN      { $$ = xstrdup("ecn"); }
+   |   CLASSID { $$ = xstrdup("classid"); }
    ;

```

```

hook_spec      :   TYPE      STRING      HOOK      STRING
dev_spec      PRIORITY      prio_spec

```

From:

<https://wiki.spoje.net/> - **SPOJE.NET**

Permanent link:

<https://wiki.spoje.net/doku.php/howto/network/nftables?rev=1543441292>

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