

# 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>

[nft-classid.patch](#)

```
parser: allow classid as set key

From: Arturo Borrero Gonzalez <arturo@xxxxxxxxxxxxxxxx>

Allow TC classid as set key.

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

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Permanent link: <https://wiki.spoje.net/doku.php/howto/network/nftables?rev=1543441173>

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