NAME

iptables-translate — translation tool to migrate from iptables to nftables

ip6tables-translate — translation tool to migrate from ip6tables to nftables

ebtables-translate — translation tool to migrate from ebtables to nftables

arptables-translate — translation tool to migrate from arptables to nftables

DESCRIPTION

There is a set of tools to help the system administrator translate a given ruleset from **iptables(8)**, **ip6tables(8)**, **ebtables(8)** and **arptables(8)** to **nftables(8)**.

The available commands are:

- iptables−translate
- iptables−restore−translate
- ip6tables−translate
- ip6tables−restore−translate
- ebtables−translate
- arptables−translate

USAGE

They take as input the original **iptables(8)**/**ip6tables(8)**/**ebtables(8)**/**arptables(8)** syntax and output the native **nftables(8)** syntax.

The **iptables-restore-translate** tool reads a ruleset in the syntax produced by **iptables-save(8)**. Likewise, the **ip6tables-restore-translate** tool reads one produced by **ip6tables-save(8)**. No ruleset modifications occur, these tools are text converters only.

The **iptables-translate** reads a command line as if it was entered to **iptables(8)**, and **ip6tables-translate** reads a command like as if it was entered to **ip6tables(8)**.

EXAMPLES

Basic operation examples.

Single command translation:

```
root@machine:~# iptables−translate −A INPUT −p tcp −−dport 22 −m conntrack −−ctstate NEW −j ACCEPT
nft add rule ip filter INPUT tcp dport 22 ct state new counter accept

root@machine:~# ip6tables−translate −A FORWARD −i eth0 −o eth3 −p udp −m multiport −−dports 111,222 −j ACCEPT
nft add rule ip6 filter FORWARD iifname eth0 oifname eth3 meta l4proto udp udp dport { 111,222} counter accept
```

Whole ruleset translation:

```
root@machine:~# iptables−save > save.txt
root@machine:~# cat save.txt
# Generated by iptables−save v1.6.0 on Sat Dec 24 14:26:40 2016
*filter
:INPUT ACCEPT [5166:1752111]
:FORWARD ACCEPT [0:0]
:OUTPUT ACCEPT [5058:628693]
−A FORWARD −p tcp −m tcp −−dport 22 −m conntrack −−ctstate NEW −j ACCEPT
```

```
COMMIT
# Completed on Sat Dec 24 14:26:40 2016

root@machine:~# iptables−restore−translate −f save.txt
# Translated by iptables−restore−translate v1.6.0 on Sat Dec 24 14:26:59 2016
add table ip filter
add chain ip filter INPUT { type filter hook input priority 0; }
add chain ip filter FORWARD { type filter hook forward priority 0; }
add chain ip filter OUTPUT { type filter hook output priority 0; }
add rule ip filter FORWARD tcp dport 22 ct state new counter accept

root@machine:~# iptables−restore−translate −f save.txt > ruleset.nft
root@machine:~# nft −f ruleset.nft
root@machine:~# nft list ruleset
table ip filter {
        chain INPUT {
                type filter hook input priority 0; policy accept;
        }

        chain FORWARD {
                type filter hook forward priority 0; policy accept;
                tcp dport ssh ct state new counter packets 0 bytes 0 accept
        }

        chain OUTPUT {
                type filter hook output priority 0; policy accept;
        }
}
```

LIMITATIONS

Some (few) extensions may be not supported (or fully-supported) for whatever reason (for example, they were considered obsolete, or we didn't have the time to work on them).

There is no translation available for **arptables(8)**.

To get up-to-date information about this, please head to **https://wiki.nftables.org/**.

SEE ALSO

nft(8), **iptables(8)**

AUTHORS

The nftables framework is written by the Netfilter project (https://www.netfilter.org).

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