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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'ip6tables-restore-translate.8'***

***\$ man ip6tables-restore-translate.8***

**IPTABLES-TRANSLATE(8)                      System Manager's Manual                      IPTABLES-TRANSLATE(8)**

#### **NAME**

`iptables-translate` ? translation tool to migrate from iptables to nftables  
`ip6tables-translate` ? translation tool to migrate from ip6tables to nftables

#### **DESCRIPTION**

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

The available commands are:

- ? `iptables-translate`
- ? `iptables-restore-translate`
- ? `ip6tables-translate`
- ? `ip6tables-restore-translate`

#### **USAGE**

They take as input the original `iptables(8)`/`ip6tables(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 are no translations available for `ebtables(8)` and `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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May 14, 2019

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