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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'xtables-translate.8' command**

**\$ man xtables-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      IPTABLES-TRANSLATE(8)