Helper

- firewalld helper định các config cần thiết, nó giúp cho việc sử dụng net filter connection tracking khi automatic helper tắt, bảo đảm việc sử dụng connection tracking helper.

- This can be achieved wither with the kernel default setting for nf\_conntrack\_helper, a sysctl setting of net.netfilter.nf\_conntrack\_helper or with the AutomaticHelpers setting in the firewalld.conf file.

- firewalld helper có thể list of local ports, a kernel module and a fmaily definition.

Options

helper

- The mandatory helper start and end tag defines the helper.

- tag này chỉ có thể sử dụng 1 lần trong helper configuration file. There is one mandatory and two optionsl attributes for helpers:

module="string"

- The mandatory module of the helper. This is one of the netfilter conntrack helper modules. The name starts with nf\_conntrack\_ and has one or several module aliases that start with nfct-helper-. The nf conntrack helpers are located in the /lib/modules/$(uname -r)/kernel/net/netfilter/ directory.

family="ipv4|ipv6"

- The optional family of the helper.

- This can be one of these ipv types: ipv4 or ipv6. If the family is not specified, then the helper is usable for IPv4 and IPv6.

version="string"

- The optional version of the helper.

short

- Is an optional start and end tag and is used to give a helper a more readable name.

description

- Is an optional start and end tag to have a description for a helper.

port

- Is an empty-element tag and can be used several times to have more than one port entry. All attributes of a port entry are mandatory:

port="string"

- The port string can be a single port number or a port range portid-portid or also empty to match a protocol only.

protocol="string"

- The protocol value can either be tcp or udp.

Examples

ftp

<?xml version="1.0" encoding="utf-8"?>

<helper module="nf\_conntrack\_ftp">

<port protocol="tcp" port="21"/>

</helper>

pptp

<?xml version="1.0" encoding="utf-8"?>

<helper module="nf\_conntrack\_pptp" family="ipv4">

<port protocol="tcp" port="1723"/>

</helper>

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<?xml version="1.0" encoding="utf-8"?>

<helper module="nf\_conntrack\_h323">

<port protocol="tcp" port="1720"/>

</helper>

sip

<?xml version="1.0" encoding="utf-8"?>

<helper module="nf\_conntrack\_sip">

<port protocol="tcp" port="5060"/>

<port protocol="udp" port="5060"/>

</helper>