Содержание

Management

In order to filter a traffic of some particular subscribers, or exclude filtering of transit traffic, or provide filtering to other operators as a service - you will need to activate Subscriber Management to control this service. Please add configuration parameter to the file /etc/dpi/fastdpi.conf to activate:

```
black_list_sm=1
```

As a result, this service is configured on level of individual subscribers by fdpi_ctrl.

Instruction format:

```
fdpi_ctrl command --service 4 [IP_list]
```

You can find more details on the instruction syntax and IP specification methods here: Control instructions

Examples:

Activate the service for all subscribers and switch filtering off for an administrator:

```
fdpi_ctrl load --service 4 --cidr 192.168.0.0/24
fdpi_ctrl del --service 4 --ip 192.168.0.1
```

Enable the service for an independent system AS50538:

```
fdpi_ctrl load --service 4 --cidr 37.110.240.0/21 --cidr 109.235.216.0/21
```

Creating named profile and activating it to several subcribers

```
fdpi_ctrl load profile --service 4  --profile.name test_black --profile.json
'{ "url_list" : "http://mysite.ru/myfile.bin" , "ip_list" :
"http://mysite.ru/myfileip.bin", "cn_list" :
"http://mysite.ru/myfilecn.bin", "redirect" : "http://mysite.ru/block",
"federal" : 0 }'
fdpi_ctrl load --service 4 --profile_name test_black --ip 192.168.0.1
fdpi_ctrl load --service 4 --profile_name test_black --ip 192.168.0.2
```

here
in json format sets folowing profiles' parameters
redirect - web page to redirect to
federal : 0/1/2/etc. using local athorities blacklist
url_list - URL blacklist
ip_list - IP:PORT blacklist
cn_list - Common Name blacklist

Blacklist can be loaded from external source, like "http://mysite.ru/myfilecn.bin", or in a local file, like

"cn_list" : "/tmp/cn_list.bin"

Searching subscribers with named profile:

```
fdpi_ctrl list all --service 4 --profile.name test_black
```

Deleting subscribers with named profile (the named profile has no subscribers using it)

```
fdpi_ctrl del profile --service 4  --profile.name test_black
```

Changing parameters of named profile (new settings apply to all subscribers with the named profile)

```
fdpi_ctrl load profile --service 4 --profile.name test_black --profile.json
'{ "url_list" : "http://mysite.ru/myfile.bin" , "ip_list" :
"http://mysite.ru/myfileip.bin", "cn_list" :
"http://mysite.ru/myfilecn.bin", "redirect" : "http://mysite.ru/block",
"federal" : false }'
```

Maximum number of profiles for blacklist service is configuerd by a parameter in /etc/dpi/fastdpi.conf

```
max_profiles_black_list=64
```

here
64 default value, 65535 maximum value

The parameter is applied after service restart.

Configuring TCP and UDP protocol blocking

The `udp_block` parameter is responsible for blocking the UDP protocol. If the DPI configuration file `/etc/dpi/fastdpi.conf` contains this parameter, then TCP+UDP blocking will take place, if not - only TCP will be blocked.

To start blocking UDP protocols (e.g. QUIC), it is necessary to add the `udp_block` parameter to the configuration file with the value 2 or 3 (to start blocking after two or three packets have passed). Such values are set because there may be a large number of single packets that are not counted in the traffic, but may cause a heavy load on DPI.

```
udp_block=3
```

Adding a parameter does not require a DPI restart, just a reload:

```
service fastdpi reload
```