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Policing of External Channels

1. Viewing Bandwidth Distribution by Protocols



After checking, disable the parameter

1. Specify the parameter `dbg_log_mask=0x01` in the configuration file
2. Reload the service:

```
service fastdpi reload
```

The result can be viewed in `/var/log/dpi/fastdpi_stat.log`:

```
Total :
      proto=20 ('rap' 38) {1/385:0/0}{1/172:0/0}
      proto=34 ('dns' 53) {2976/295842:0/0}{2976/471359:0/0}
      proto=56 ('http' 80) {63349/8292468:0/0}{40178/23869035:0/0}
      proto=82 ('pop3' 110) {11/1051:0/0}{14/4438:0/0}
      proto=94 ('ntp' 123) {8/912:0/0}{8/912:0/0}
      proto=336 ('https' 443)
{13609/2688675:0/0}{15298/15473511:0/0}
      proto=482 ('http-alt' 591) {16/1392:0/0}{8/720:0/0}
      proto=678 ('cap' 1026) {2/190:0/0}{0/0:0/0}
      proto=679 ('solid-mux' 1029) {6/516:0/0}{0/0:0/0}
...
      proto=1091 ('ies-lm' 1443) {12/1100:0/0}{8/740:0/0}
      proto=1101 ('genie-lm' 1453) {1/86:0/0}{1/86:0/0}
      proto=1145 ('vlsi-lm' 1500) {6/516:0/0}{0/0:0/0}
      proto=1174 ('rap-service' 1530) {3/258:0/0}{0/0:0/0}
      proto=1180 ('ampr-inter' 1536) {1/86:0/0}{1/86:0/0}
      proto=1181 ('sdsc-lm' 1537) {2/343:0/0}{2/172:0/0}
```

Explanation:

1. Internal index of statistics by protocol
2. Protocol name
3. Protocol port number

Direction subs → inet

4. Number of packets
5. Volume in bytes (IP total)
6. Dropped packets
7. Dropped bytes

Direction inet → subs

8. Number of packets
9. Volume in bytes (IP total)

10. Dropped packets

11. Dropped bytes

Command to display statistics:

```
fdpi_ctrl stat --proto
```

2. How to View Bandwidth Distribution by Classes



After checking, disable the parameter

1. Specify the parameter `dbg_log_mask=0x4` in the configuration file `/etc/dpi/fastdpi.conf`
2. Reload the service:

```
service fastdpi reload
```

In the file `/var/log/dpi/fastdpi_stat.log` you will see output by classes like:

```
[STAT    ][2017/12/07-13:12:32:334249] HTB : Statistics dscp=2, if 'dna2'
:
      DSCP_actual stats Rcvd: [0 bytes][0.00 Mbit/sec]
                               [0 pkts ][0.00 pkt/sec]
      Drop: [0 bytes][0.00 %]
            [0 pkts ][0.00 %]
      Send: [0 bytes][0.00 Mbit/sec]
            [0 pkts ][0.00 pkt/sec]
      Esnd: [0 err_pkts][0.00 %]
[STAT    ][2017/12/07-13:12:32:334266] HTB : Statistics dscp=3, if 'dna2'
:
      DSCP_actual stats Rcvd: [0 bytes][0.00 Mbit/sec]
                               [0 pkts ][0.00 pkt/sec]
      Drop: [0 bytes][0.00 %]
```