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Test version installation

Changes in version 13.2 BETA1

1. [BRAS][PPPoE] Fixed: ping of inactive client with Echo requests
2. Support for service profiles 19 (DNS response substitution). [Description](#)
3. For service 19, ability to specify AAAA records and support for wildcard (*) for domains. [Description](#)
4. Fixed: for profile 18, it is not required to set both DSCP and TBF simultaneously

Changes in version 13.2 BETA2

1. Fixed: IP:PORT priority over IP and CIDR for custom protocol definitions
2. Modified: custom protocols have higher priority than cloud protocols
3. Fixed: length of AAAA records in service 19
4. Added: mask 8 in `block_options` - do not generate rst blocking and redirection packets for packets directed from `inet→subs`. [Description](#)

Changes in version 13.2 BETA3

1. [DPI] Improved: analysis of out-of-order packets.
2. [DPI] Fixed: recognition of DOT protocol.
3. [CTRL] Added: new format for policing output:

```
fdpi_ctrl list profile --policing --profile.name htb_6 --  
outformat=json2
```

4. [CTRL] Added: loading of policing profiles with the new format (including value and unit).
5. [BRAS][IPv6] Added: upon receiving a DHCPv6 confirm from the client and if there is no session in the BRAS database, a response with the status "NotOnLink" is sent.
6. [FastPCRF][DHCPv6] Fixed: an error causing the current IPv6 accounting session to close and reopen when processing DHCPv6 requests from the client to renew the address lease.

Changes in version 13.2 BETA4

1. [DPI] Added: updating `asnum.bin` from the cloud, the `asnum_download` parameter is similar to the set of values in [federal_black_list](#).
2. [DPI] CUSTOM protocols now have priority over others downloaded from the cloud.
3. [DPI] Added: setting the number of buffers for processing out-of-order packets.
4. Added: parameter `mem_ssl_savebl` (cold). Specifies the number of buffers saved for SSL parsing during packet reordering.
Default = 10% of `mem_ssl_parsers`. If the value == 0, saving and processing do not occur.
The first value is from the conf file, in parentheses is the value used.
Example output from alert:
 1. Parameter not set

```
mem_ssl_parsers      : 320000
mem_ssl_savebl      : -1 (32000)
```

2. mem_ssl_savebl=1234 is set

```
mem_ssl_parsers      : 320000
mem_ssl_savebl      : 1234 (1234)
```

5. Added: utilization statistics for saving SSL request parsing buffers

```
[STAT  ][2024/08/07-13:33:16:262335] Detailed statistics on
SSL_SAVEBL :
          thread_slave= 0 : 1522/1/32000 0/0/0/0/0/ 1/1/348
348/348/348
          Total : 1522/1/32000 0/0/0/0/0/ 1/1/348 348/348/348
```

Let's denote: a1/a2/a3 b1/b2/b3/b4/b5 c1/c2/c3 d1/d2/d3

a1 — allocated memory size for saving the record of subsequent parsing (matches snaplen)

a2 — records allocated

a3 — records used

b1 — total number of errors during packet saving processing

b2 — buffer size read is too large

b3 — an incorrect isbl_t ind_ was passed to the function

b4 — error adding a record to arw — no space to save the list of used buffers

b5 — error adding data to p_data (unable to save buffer)

c1 — number of requests for data saving

c2 — saved packets released

c3 — total size of packets that were saved

d1 — average size of saved TCP packet

d2 — min size of saved TCP packet

d3 — max size of saved TCP packet

6. [BRAS][DHCPv6] Added the ability to extract option 37 and option 38 from the client packet.
7. [Router][tap] Fixed: initialization of bridge status at fastDPI startup. The TAP device for through LAG is in the Up state if at least one port in the through LAG is Up and its other end in the bridge is also Up. The bridge status (Up/Down) was previously calculated only on link Up/Down events, and at fastDPI startup, the bridge status was assumed to be Down. This patch initializes the bridge status (Up/Down) at router startup based on the current port status.
8. [BRAS] Fixed: local interconnect is allowed only if srcIP is a known subscriber. Previously, it was not checked whether srcIP was a known subscriber, which could lead to IP address spoofing of a subscriber and DDoS attacks from this spoofed IP against other local subscribers marked as local interconnect.
9. Added: CLI command permit.

Changes in version 13.2 BETA5

1. [DPI] Fixed buffer exhaustion for processing out-of-order packets
2. [CLI][Ping] Changed: error message if subs IP not found

- [CLI] Added: boolean flag `on_stick` added to the JSON output of the `dev xstat` command
- [CLI] Changed: JSON output of the `dev info` command for on-stick devices.
For an on-stick device, it was:

```
"pci_address": "on-stick based on 82:00.3"
```

Now:

```
// base device address  
"pci_address": "82:00.3"  
// on-stick flag  
"on-stick": "true|false"
```

- Changed: statistics format

```
[STAT      ][2024/08/19-17:26:05:599912] Detailed statistics on  
SSL_SAVEBL:  
          thread_slave= 0 : 1522/1/32000 0/0/0/0/0/ 6/6/2561  
426/348/556 1/1/32000  
          Total: 1522/1/32000 0/0/0/0/0/ 6/6/2561 426/348/556  
1/1/32000
```

Explanation: a1/a2/a3 b1/b2/b3/b4/b5 c1/c2/c3 d1/d2/d3 e1/e2/e3

a1 — memory size allocated for saving the record of the subsequent analysis (matches `snaplen`)

a2 — records allocated

a3 — records used

b1 — total number of errors in packet save processing

b2 — read buffer size is too large

b3 — invalid `isbl_t ind_` passed to the function

b4 — error adding records to `arw` — no space to save the list of used buffers

b5 — error adding data to `p_data` (unable to save buffer)

c1 — number of requests to save data

c2 — saved packets freed

c3 — total size of packets that were saved

d1 — average size of the saved TCP packet

d2 — min size of the saved TCP packet

d3 — max size of the saved TCP packet

e1 — records used in the `arw` queue

e2 — free records (can be reused)

e3 — records allocated in the queue

- Removed fake yandex sni from `TELEGRAM_TLS`

Update instructions

You can check the current installed version with the command below

```
yum info fastdpi
```

If you have CentOS 6.x or CentOS 8.x installed, then switch the repository once with the command:

```
sed -i -e '/^mirrorlist=http:\\\\d' -e 's/^#  
*baseurl=http:\\\\mirror.centos.org/baseurl=http:\\\\vault .centos.org/'  
/etc/yum.repos.d/CentOS-*.repo
```

and then update as usual.

To install the test version, you should issue the following command:

```
yum --enablerepo vasexperts-beta update fastdpi
```

Downgrade to 13.1:

```
yum downgrade fastdpi-13.1 fastpcrf-13.1
```



After an update or version change, a restart of the service is required.