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Changelog of SSG BETA-version

Changes in version 13.3 BETA1

1. [DPI] New protocols added: BIGOTV [49305], SAYHI [49306], AZARLIVE [49307].
2. Added: hot parameter `smartdrop = 1`. If drop is set for the protocol, it will be deferred until the TLS is parsed or a TLS parsing error occurs.
3. Fixed: Adding HTTP domains ending with `:` (port number).
4. [Utils] Fixed: `checkproto` now considers MARK1 and checks if the port number is specified. For example, `checkproto 8.8.8.8 443 www.google.com` and `checkproto 8.8.8.8 www.google.com` may return different results.
5. Changed the path for loading ASNUM from VAS Cloud (`cloud.vasexperts.ru`).
6. Blacklist blocking in GTP tunnel (with the `detect_gtp_tunnel` setting).
7. Fixed: HTTPS blocking with the hard option.

Changes in version 13.3 BETA2

1. [DPI] Improved Viber recognition.
2. Support for reload of `/etc/dpi/asnum6.bin`.
3. [Utils] `bin2as` now accepts any number of input files as arguments.
4. [Utils] `ascheckip` accepts addresses for batch verification via `stdin`.
5. [Utils] `bgp2bin` works similarly to `as2bin`, but only accepts /24 or larger subnets. It recognizes the IP1-IP2 range format as in RIPE records (extracting /24 or larger subnets from it). Subsequent entries take precedence over previous ones, creating a slightly larger file than `as2bin`. However, in this file, subnet ranges do not overlap (as less prioritized entries are filtered out). This allows the utility to process data from multiple sources in order of priority.
6. [BRAS][PPP] Fixed: Heterogeneous dual-stack. One address (IPv4 or IPv6) is explicitly set, while the other (IPv6 or IPv4) is assigned via framed-pool.

Changes in version 13.3 BETA3.2

1. [DPI] Fixed: searching for both `*` and `:` in HTTP domains simultaneously
2. [DPI] Fixed: removal of addresses in virtual channels during reload
3. [DPI] Fixed: ignoring drop when the `smartdrop` parameter is set in case of SSL parsing errors
4. [BRAS][PPP] Fixed: consideration of the `bras_pppoe_trace_mac` option when saving DHCPv6 packets in pcap. Previously, only the `bras_dhcp_trace_mac` option was considered. Now, for DHCPv6 packets in the PPPoE tunnel, `bras_pppoe_trace_mac` is also taken into account

Changes in version 13.3 BETA3.3

1. [DPI] Reduced the number of false positives for DPI TUNNEL
2. [DPI] Fixed errors when assigning vchannel by IP/CIDR

Changes in version 13.3 BETA3.4

1. [DPI] Fixed: blocking by IP of DNS working over TCP
2. [DPI] Increased packet inspection depth when searching for BIGOTV
3. [DPI Utils] Fixed checkproto for the case of an unknown IP protocol
4. Initial support for writing alert logs to syslog. Enabled with the `syslog_level=7` setting (defines the highest level of messages to be duplicated in syslog, default is off). Notes:
 1. By default, rsyslog replaces tab characters and newlines with their codes when writing to a text log. To disable this, create a file `/etc/rsyslog.d/fastdpi.conf` with the setting

```
global(parser.escapeControlCharactersOnReceive="off")
```

or use the `journalctl` utility. Example:

```
journalctl -t fastdpi -p 4 --since "1 hour ago" -o verbose --output-fields PRIORITY,MESSAGE
```

2. Logs can be redirected to a remote server. Example from `/etc/rsyslog.conf`:
 1. On the local server with fastdpi:

```
.* action(type="omfwd" target="192.0.0.1" port="10514"
protocol="tcp"
        action.resumeRetryCount="100"
        queue.type="LinkedList" queue.size="10000")
```

2. On the remote server:

```
input(type="imptcp" port="10514"
      ruleset="writeRemoteData")
ruleset(name="writeRemoteData"
        queue.type="fixedArray"
        queue.size="250000"
        queue.dequeueBatchSize="4096"
        queue.workerThreads="4"
        queue.workerThreadMinimumMessages="60000"
        ) {
  action(type="omfile" file="/var/log/fastdpi.log"
        ioBufferSize="64k" flushOnTXEnd="off"
        asyncWriting="on")
```

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.