Содержание

Recommendations for Updating to Beta Version, Configuration, and Log Collection

1. Update the service to the beta version using the command:

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

If you are using BNG functionality and FastPCRF is located on a separate server, execute the following command on the FastPCRF server to update:

```
yum --enablerepo vasexperts-beta update fastpcrf
```

The current version — 14.2 BETA2.1
Release date 16.02. If the new version is not visible, clear the cache:

```
yum clean all
```

2. In the configuration file `/etc/dpi/fastdpi.conf`, set the following parameter values:

```
nat_whp_max_viewq=1
nat_dstaddr_cache_size=0
```

`nat_whp_max_viewq` - changes the translation view depth

`nat_dstaddr_cache_size` - disables sending postNATport in IPFIX, optional as it affects NAT translation export

Optionally, if there is a shortage of connection ports
`nat_whp_lifetime=10` - sets the short queue time in seconds for NAT translation for TCP SYN, TCP FIN, UDP. This parameter overrides `lifetime_flow` only for NAT translations. After this time, the port may be reused, but only when the queue for that port on a specific public IP address is reached. Helps reduce port release time.
`nat_gcache_slice_k100=150` - changes the port allocation logic, use only if the Private to Public density is low (less than 10:1)

3. Restart SSG. Note that if FastPCRF is on a separate server, restart the fastpcrf service on the FastPCRF server. Restart will interrupt subscriber traffic processing.
Restart SSG in the following order:

```
service fastdpi stop
service fastpcrf restart
service fastdpi start
```

4. Collect a flow dump using the command:

```
mkdir -p /var/log/dpi/$(date +%Y%m%d) && fdpi_cli dump flow cache >
/var/log/dpi/$(date +%Y%m%d)/2_flow.txt
```

5. Backup fastdpi logs using the command:

```
tar -jcvf /var/log/dpi/BACKUPLOG_$(date +"%Y%m%d").tar.bz2
/var/log/dpi/fastdpi_*.log /var/log/dpi/fastpcrf_*.log
```

6. Collect statistics for all subscribers with CG-NAT using the command:

```
fdpi_ctrl list all status --service 11 > /var/log/dpi/$(date
+%Y%m%d)/all_nat.txt
```

7. Collect statistics for subscribers with more than 800 TCP sessions:

```
fdpi_ctrl list all status --service 11 | grep -E '^[0-9]' | awk
'{for(i=1;i<=NF;i++) if($i ~ /active_sess_tcp=/) {split($i,a,"="); if(a[2]+0
> 800) print}}' > /var/log/dpi/$(date +%Y%m%d)/subscriber_with_T800_nat.txt
```

8. Collect statistics for subscribers with more than 800 UDP sessions:

```
fdpi_ctrl list all status --service 11 | grep -E '^[0-9]' | awk
'{for(i=1;i<=NF;i++) if($i ~ /active_sess_udp=/) {split($i,a,"="); if(a[2]+0
> 800) print}}' > /var/log/dpi/$(date +%Y%m%d)/subscriber_with_U800_nat.txt
```

9. Record the outputs of the following commands:

```
ll -h /var/lib/dpi/proto*
ll -h /etc/dpi/as*
```

10. Notify us so we can download the archive with logs and flow dump from the server. You can also download them yourself and send via any convenient file-sharing service.