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Monitoring
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## Monitoring

System logs are presented as text files that are located in the /var/log/dpi directory for DPI and PCRF modules. Types of messages in the log:

- 1. [CRITICAL] critical error, system operation is impossible without troubleshooting
- 2. [WARNING] warning, the system does not stop, but it is worth eliminating this malfunction
- 3. [TRACE] messages when the diagnostic trace mode is enabled
- 4. [INFO] notification of system actions
- 5. [ERROR] error when connecting services and policies, incorrect configuration

The FastDPI process by default logs all system actions to the following debug and statistics log files:

- 1. /var/log/dpi/fastdpi\_slave\*.log a log of traffic processing processes
- 2. /var/log/dpi/fastdpi\_stat.log traffic processing statistics log
- 3. /var/log/dpi/fastdpi\_alert.log common fastDPI functions log

Note: For each handler, its own fastdpi\_slave log is created, other log files are created in a single copy.

Blocking counters that are saved in the statistics log

We offer you the following set of parameters that can be received from the VAS Experts DPI:

- 1. fastdpi process errors from the /var/log/dpi/fastdpi\_alert.log log file
- 2. system log errors from */var/log/messages*
- 3. drops within the dna interfaces
- 4. traffic volumes on the interfaces
- 5. availability of management interfaces
- 6. the number of processed requests over HTTP and HTTPS
- 7. the number of blocked resources over HTTP, HTTPS, IP
- 8. the number of PPPoE sessions

You can use zabbix agent for monitoring. Installation Description:

1. Install zabbix agent on the server:

```
rpm -ivh
http://repo.zabbix.com/zabbix/2.4/rhel/6/x86_64/zabbix-release-2.4-1.el6.noa
rch.rpm
yum install zabbix-agent
```

2. Update SELinux policy

```
yum update selinux-policy
```

```
3. Put
```

## skat\_userparams.conf

to the /etc/zabbix\_zabbix\_agent.d/ directory and zabbix\_agentd.conf to the /etc/zabbix/

4. Edit /etc/zabbix/zabbix\_agentd.conf file:

Server=%aдpec zabbix сервера% ServerActive=%aдpec zabbix сервера% Hostname=%hostname сервера%

5. Change the context of the /var/log/dpi/fastdpi\_stat.log file:

chcon unconfined\_u:object\_r:zabbix\_log\_t:s0 /var/log/dpi/fastdpi\_stat.log

6. Add to the /etc/sysconfig/iptables the following rule before -A INPUT -j REJECT: -A INPUT -p tcp --dport 10050 -j ACCEPT

7. Reload iptables rules:

service iptables reload

8. Add zabbix agent to start on boot and start it:

```
chkconfig zabbix-agent on service zabbix-agent start
```

9. Import prepared template in Zabbix

• For version 4.2 (new) -

zbx\_template\_dpi\_4.2.xml

- For version 3.4 (new) zbx\_template\_dpi\_3.4.xml
- For version 2.4 (old) zbx\_template\_dpi.xml

In the Zabbix server control panel add a new host, bind this template.

10. Disable requests for network interfaces that are not used in dpi by clicking on <u>enabled</u> on the right in the zabbix GUI

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Lock counters that are stored in the statistics log