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# Monitoring via SNMP agent (Zabbix-agent)

We offer you the following set of parameters that can be taken from the SSG DPI:

- Errors in fastDPI process log /var/log/dpi/fastdpi\_alert.log
- Errors in the /var/log/messages system log
- Losses (Drop) on dna interfaces
- Traffic volume on interfaces
- Availability of control interfaces
- Number of HTTP and HTTPS requests processed
- Number of blocked resources by HTTP, HTTPS, IP
- Number of PPPoE sessions

You can use Zabbix Agent for monitoring.

Current and final supported version of agent and server is 6.0, Zabbix agent 1 should be used. For newer versions of Zabbix, monitoring will be done via SNMP.

## Agent Setup

1. Install Zabbix agent 1 on the DPI server according to the [instructions on the Zabbix website](#).

In the first step, select the following values:

- Zabbix Packages
- Zabbix version: 6.0+
- OS distribution: CentOS
- OS version: 8 STREAM
- Zabbix component: AGENT

2. Edit the configuration file /etc/zabbix/zabbix\_agentd.conf: change the parameters Server= and ServerActive= to your server address, hostname= to the server hostname.
3. 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
```

4. Open tcp/udp ports 10050 and 10051 in firewall

5. Upload the

ssg\_userparams.conf

file to the /etc/zabbix/zabbix\_agent.d/ directory

6. Edit the ssg\_userparams.conf file by replacing the interface number in UserParameter **02-00.0 should be replaced with the interface names of your server!**  
**The name must match the DPI config. If you have more than 2 interfaces in use, you must add a line similar to the existing parameters.**

```
UserParameter=dpi.02-00.0.drops,tac /var/log/dpi/fastdpi_stat.log | sed  
/'IF 02-00.0'/q | tac | sed -e 1,'/Actual Stats/d | sed '6!D' | awk  
'{print $1}' | sed 's/^./'
```

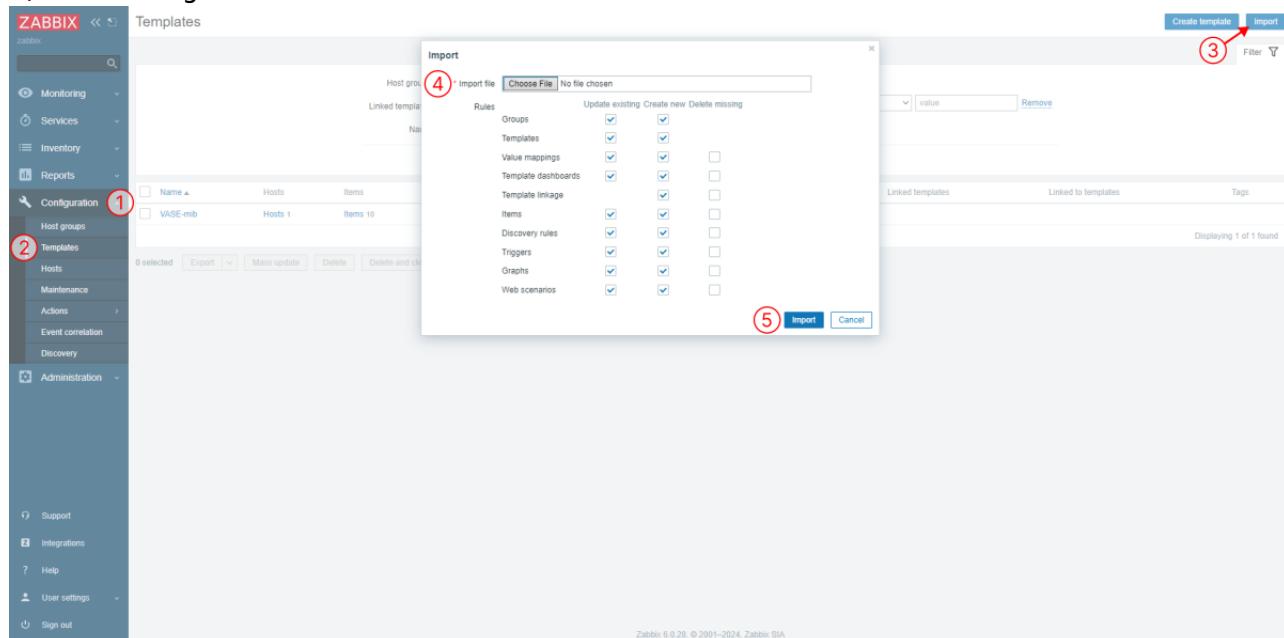
7. Restart the agent: systemctl restart Zabbix-agent

# Server setup

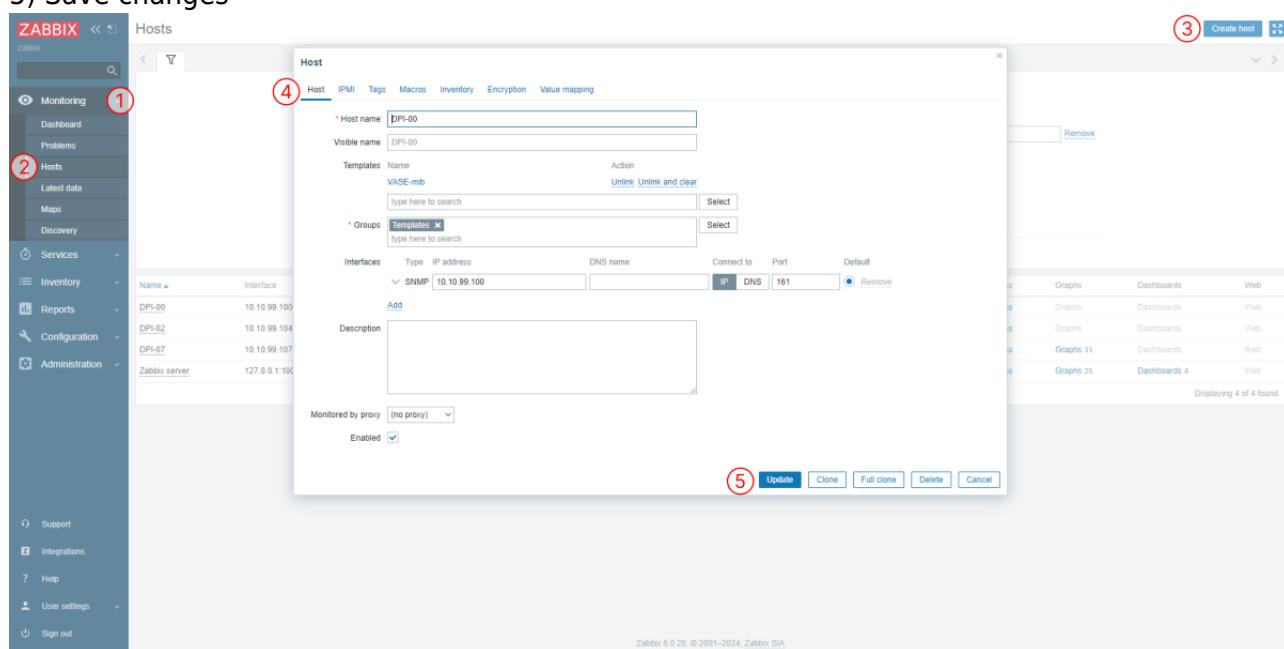
1. Install and configure Zabbix servers according to the [instructions](#) on the official website.
2. Add template

zbx\_export\_templates.xml

- 1) Go to Configuration section
- 2) Templates section
- 3) Click “Import”
- 4) Import template file
- 5) Save changes



3. Add a DPI server as a host
- 1) Go to Monitoring section
- 2) Hosts section
- 3) Click “Create host”
- 4) Set the required parameters, hostname, group and the previously added template
- 5) Save changes



4. Edit the template: change the names of the interfaces and keys so that they match the UserParameter.