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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, you should use the

`vase_template_snmp.xml`

template for this

## 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/^.//'
```

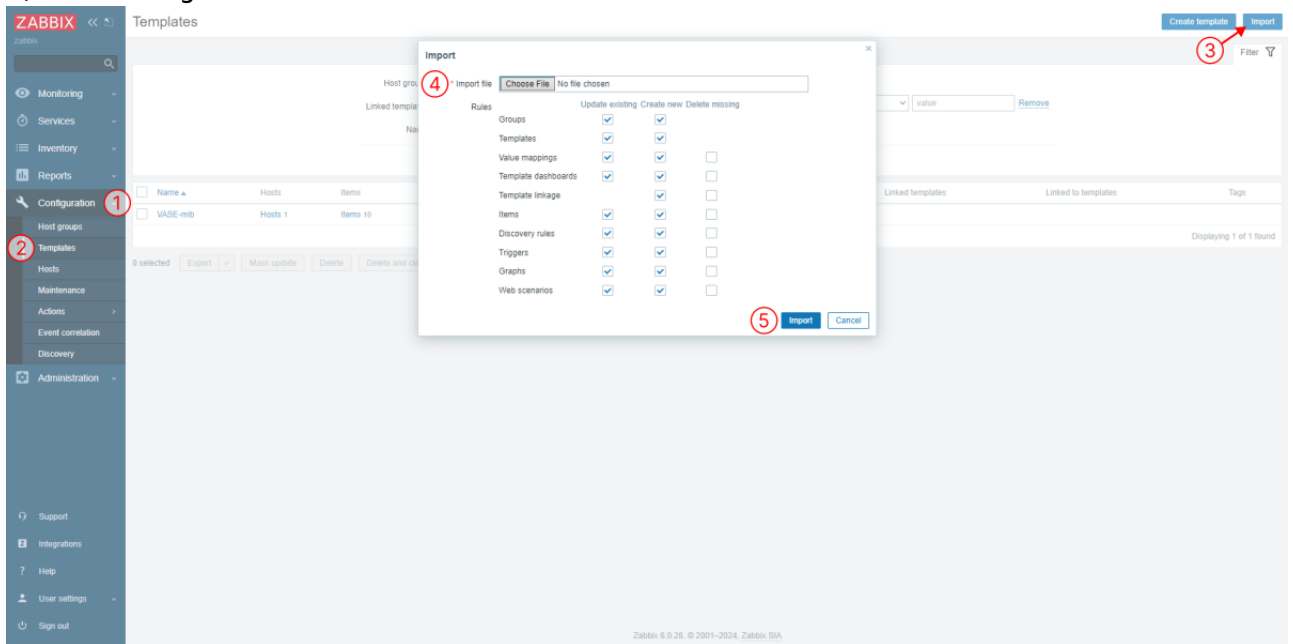
7. Restart the agent: `systemctl restart Zabbix-agent`

## Server setup

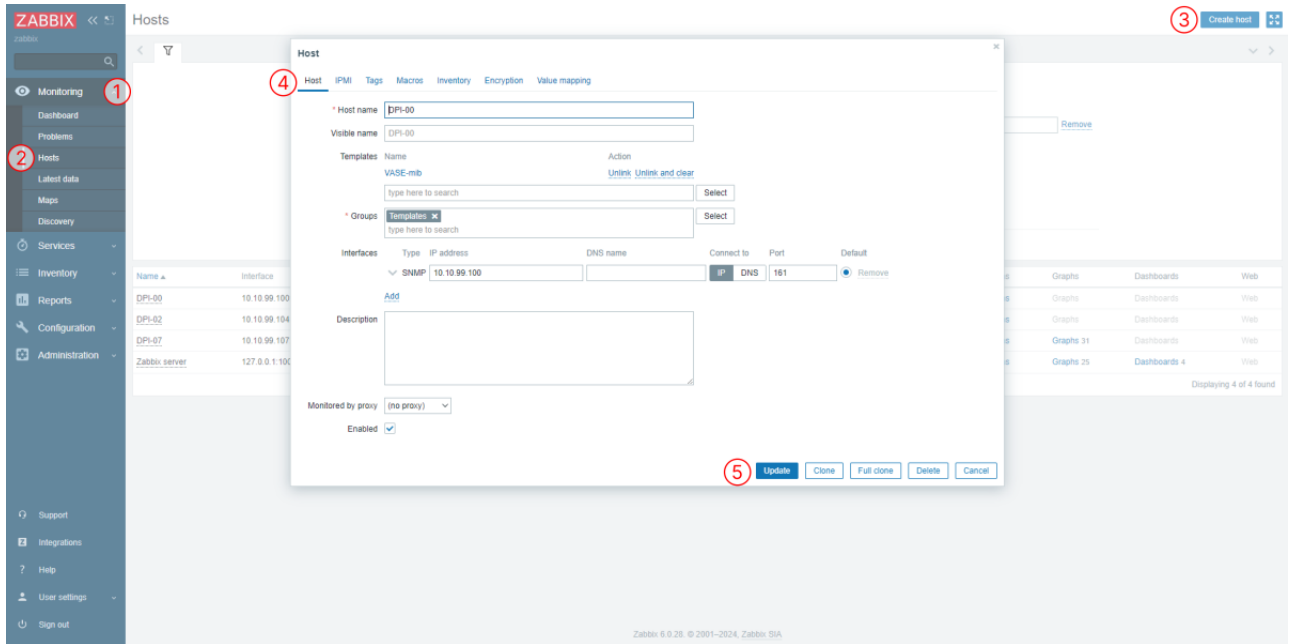
1. Install and configure Zabbix servers according to the [instructions](#) on the official website.
2. Add template

`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.