


```
CREATE DATABASE zabbix;
```

```
CREATE USER zabbix WITH PASSWORD 'Qwerty!@#123';
```

```
GRANT ALL PRIVILEGES ON DATABASE zabbix TO zabbix;
```

```
\q
```

```
?????? ?????? ????? ??????
```

```
sudo -u postgres psql -d zabbix -c "GRANT ALL ON SCHEMA public TO zabbix;"
```

```
sudo -u postgres zcat /usr/share/zabbix-server-pgsql/{schema,images,data}.sql.gz | PGPASSWORD='C
```

```
1.5 ?????????? ?????????? ????????? (???/???)
```

```
???? ?? ???????? Zabbix ?????????? ??????? "?????????" ??? "?????????", ?????????? ??????????????????  
?????????????:
```

```
????????????? ?????? ??????????????????:
```

```
sudo pdpl-user -l 0:0 postgres
```

```
sudo pdpl-user -l 0:0 zabbix
```

Права на чтение базы меток

```
?????? ?? ??????? ????? ??????:
```

```
sudo setfacl -d -m u:postgres:r /etc/passwd/{macdb,capdb}
```

```
sudo setfacl -R -m u:postgres:r /etc/passwd/{macdb,capdb}
```

```
sudo setfacl -m u:postgres:rx /etc/passwd/{macdb,capdb}
```

```
1.6 ?????????? Zabbix Server
```

```
????????????????????? ?????????????????????? ?????:
```

```
sudo nano /etc/zabbix/zabbix_server.conf
```

```
????????? ??????????? ?????????????? ? ?? (? ??????? ?????????? ?????? ??????????, ??? ?? ??????????????  
?? ?????? ?????????? Zabbix):
```

```
DBHost=127.0.0.1
```

```
DBName=zabbix (может быть уже указано в файле)
```

```
DBUser=zabbix (может быть уже указано в файле)
```

```
DBPassword=Qwerty!@#123 (для примера взят пароль Qwerty!@#123)
```

```
Ctrl+o, Ctrl+x ??? ?????????????? ? ???????  
???????? ??????????
```

```
sudo systemctl restart zabbix-server
```

```
sudo systemctl enable zabbix-server
```

```
sudo systemctl status zabbix-server
```

```
1.7      ?????????? ???-?????????????  
????????????? ?????????????????????? ??????
```

```
sudo cp /usr/share/zabbix/conf/zabbix.conf.php.example /etc/zabbix/zabbix.conf.php
```

```
sudo chown www-data:www-data /etc/zabbix/zabbix.conf.php
```

```
sudo chmod 644 /etc/zabbix/zabbix.conf.php
```

```
?????????? ?????? ? ???????????????  
????????????????????? ?????????????????????? ?????:
```

```
sudo nano /etc/zabbix/zabbix.conf.php
```

```
?????? ??????? ? ?????? ????? ? ?????????:
```

```
$DB['TYPE'] = 'POSTGRESQL';
```

```
?????? ??????? ? ?????????? ? ?????????:
```

```
$DB['PASSWORD'] = 'Qwerty!@#123';
```

```
Ctrl+o, Ctrl+x ??? ?????????????? ? ???????  
????????????? ?????????????????? Zabbix ? Apache
```

```
sudo a2enconf zabbix-frontend-php
```

```
sudo systemctl start apache2
```

```
sudo systemctl enable apache2
```

```
sudo systemctl reload apache2
```

```
1.8      ?????????? AstraMode  
??? ?????????????? ??????? ???-????????????? ?????????? ? ?????????????????? Apache:
```

```
sudo nano /etc/apache2/apache2.conf
```

```
????????? ??????? (???????? ??? ?????????? ??????):
```

```
AstraMode off
```

```
Ctrl+o, Ctrl+x ??? ?????????????? ? ???????  
????????????????????? Apache:
```

```
sudo systemctl reload apache2
```

```
1.9      ?????????? ???-?????????????
```

???????? ? ??????????: http://<IP_????????_Zabbix>/zabbix
???????? ??????? ??? ?????? (?? ??????????):

- Username: **Admin**
 - Password: **zabbix**
- ?????? ?????????????? ????????? ????????? Zabbix

2. ?????????? ?????????? KICS for Networks

2.1 ?????????? Zabbix Agent

```
sudo apt update
```

```
sudo apt install -y zabbix-agent
```

2.2 ?????????? ?????????????????? ???????

????????????????????? ????? /etc/zabbix/zabbix_agentd.conf:

```
sudo nano /etc/zabbix/zabbix_agentd.conf
```

????????? ??????????????:

```
Server=<IP_сервера_Zabbix>
```

```
ServerActive=<IP_ сервера_Zabbix >
```

```
Hostname=kics4networks
```

Ctrl+o, Ctrl+x ??? ?????????????? ? ???????

2.3 ?????????????? ????? ??? ?????? ??????? ???????

```
sudo usermod -aG adm zabbix
```

2.4 ?????????? ?????????????????????????????? ?????????? ??? ?????????????? ?????????? kics4net-webserver

????????????? ??????????, ?????????????????? ?????????????? Include ? ?????? /etc/zabbix/zabbix_agentd.conf:

```
Include=/etc/zabbix/zabbix_agentd.conf.d/*.conf
```

????????????? ?????????????????????????????? ???????

```
sudo mkdir -p /etc/zabbix/zabbix_agentd.conf.d/
```

```
sudo nano /etc/zabbix/zabbix_agentd.conf.d/kics_services.conf
```

????????????? ??????????????:

```
UserParameter=kics.status[*],test "$(systemctl is-active "$1" 2>/dev/null)" = "active" && echo  
1 || echo 0
```

Ctrl+o, Ctrl+x ??? ?????????????? ? ???????

????????????? ??????

```
sudo chown zabbix:zabbix /etc/zabbix/zabbix_agentd.d/kics_services.conf
```

```
sudo chmod 644 /etc/zabbix/zabbix_agentd.d/kics_services.conf
```

2.5 ?????????? ?????????? Include ? ?????????? ??????????

??????????, ??? ? ?????? /etc/zabbix/zabbix_agentd.conf ?????????????? ?????????:

```
Include=/etc/zabbix/zabbix_agentd.conf.d/*.conf
```

```
sudo nano /etc/zabbix/zabbix_agentd.conf
```

???????????? ?????????????? ??????????????:

```
sudo zabbix_agentd -T
```

???????????? ??????????:

Validation successful

2.6 ??????? ? ?????????? ???????

```
sudo systemctl restart zabbix-agent
```

```
sudo systemctl enable zabbix-agent
```

```
sudo systemctl status zabbix-agent
```

2.7 ?????????? ?????????????????????? ???????????

?? ?????????? KICS for Networks ?????????? ??????????:

```
sudo zabbix_agentd -t 'kics.status[kics4net-webserver]'
```

???????????? ??????????: (????? ??????? ??????????)

```
kics.status[kics4net-webserver] [u|1]
```

???

```
kics.status[kics4net-webserver] [t|1]
```

? ?????????? Zabbix ?????????? ??????????:

```
zabbix_get -s <IP_cepвepa_KICS for Networks> -p 10050 -k "kics.status[kics4net-webserver]"
```

???????????? ??????????: (????? ??????? ??????????): 1

3. ?????????? ?????????????? ? ???-????????????? Zabbix

3.1 ??????? ?????????? Astra Linux (?????????????????)

?????? ? ???-????????????? Zabbix (Admin / zabbix)

?????????: Data collection (??? Configuration) ? Templates

????????? Import

????????? ??????: /usr/share/zabbix/conf/zabbix_astra_template.xml

?????? Import ??? ????

3.2 ?????????? ???? ???? (Host)

????????: Data collection (??? Configuration) ? Hosts

?????? Create host

???????????? ??????:

Host name	kics4networks (строго совпадает с Hostname в конф агента)
Groups	Linux servers
Interfaces	Agent
Agent interface	IP-адрес сервера KICS for Networks, порт 10050

?????? Add

?????? ?????????? 1 ?????? ? ?????? Availability ?? ?????? kics4networks ?????? ZBX ??????

????????????? ? ????????? ?????.

3.3 ?????????? ?????????? ??????? (Item) ??? ?????????????? ????????? kics4net-webserver

????????: Data collection (??? Configuration) ? Hosts

?? ??????? ???? kics4networks ??????? ?? Items

?????? Create item

???????????? ??????:

Name	KICS: kics4net-webserver service status
Type	Zabbix agent
Key	kics.status[kics4net-webserver]
Type of information	Numeric (unsigned)
Update interval	30s
History storage period	90d

?????? Add

????????????? ?????? ?????????? Item ??? ?????????????? ??????? ?????????? KICS for Networks, ??????????

? ??????????? "Key" ?????????? kics4net-webserver ?? ???????????

- kics4net
- kics4net-apm
- kics4net-asset-config-repo
- kics4net-asset-inventory
- kics4net-blob-storage
- kics4net-config-control-orchestrator
- kics4net-connectors-launcher
- kics4net-email-gateway
- kics4net-epp-proxy
- kics4net-fts
- kics4net-nats-server
- kics4net-oval-facade
- kics4net-postgresql
- kics4net-report-builder
- kics4net-report-data-source
- kics4net-report-renderer
- kics4net-report-templates-catalog
- kics4net-report-templates-catalog-view

- kics4net-responses-manager
- kics4net-risk-oval-detector
- kics4net-scan-oval-manager
- kics4net-scap-manager
- kics4net-scap-manager-view
- kics4net-scheduler
- kics4net-secrets
- kics4net-task-manager
- kics4net-task-manager-view
- kics4net-vault
- kics4net-webserver

3.4 ?????????? ?????????? ??? ?????????????

?? ?????????? Items ?????? ?????????????? ??????????
 ?????????? ?? ?????????? Triggers ? Create trigger
 ?????????????? ??????????:

Name	KICS: kics4net-webserver is not running
Severity	High
Expression	last(/kics4networks/kics.status[kics4net-webserver])=0

????????? Add

3.5 ?????????? ?????????????????????? ?????????????? ??? ?????????????????? ?? ?????????????????? ?????? ?? ?????????? ?? ?????? KICS for Networks

3.5.1 ?????????? UserParameter ??? ?????????????????? ?????????????

????????? ??????:

```
sudo nano /etc/zabbix/zabbix_agentd.conf.d/kics_discovery.conf
```

?????????????????:

```
UserParameter=kics.discovery,echo '{"data":[{"#SERVICE}":"kics4net"},{"#SERVICE}":"kics4net-apm"},{"#SERVICE}":"kics4net-asset-config-repo"},{"#SERVICE}":"kics4net-asset-inventory"},{"#SERVICE}":"kics4net-blob-storage"},{"#SERVICE}":"kics4net-config-control-orchestrator"},{"#SERVICE}":"kics4net-connectors-launcher"},{"#SERVICE}":"kics4net-email-gateway"},{"#SERVICE}":"kics4net-epp-proxy"},{"#SERVICE}":"kics4net-fts"},{"#SERVICE}":"kics4net-nats-server"},{"#SERVICE}":"kics4net-oval-facade"},{"#SERVICE}":"kics4net-postgresql"},{"#SERVICE}":"kics4net-report-builder"},{"#SERVICE}":"kics4net-report-data-source"},{"#SERVICE}":"kics4net-report-renderer"},{"#SERVICE}":"kics4net-report-templates-catalog"},{"#SERVICE}":"kics4net-report-templates-catalog-view"},{"#SERVICE}":"kics4net-responses-manager"},{"#SERVICE}":"kics4net-risk-oval-detector"},{"#SERVICE}":"kics4net-scan-oval-manager"},{"#SERVICE}":"kics4net-scap-manager"},{"#SERVICE}":"kics4net-scap-manager-view"},{"#SERVICE}":"kics4net-scheduler"},{"#SERVICE}":"kics4net-secrets"},{"#SERVICE}":"kics4net-task-manager"},{"#SERVICE}":"kics4net-task-manager-view"},{"#SERVICE}":"kics4net-vault"},{"#SERVICE}":"kics4net-webserver"}]}'
```

????????????????????? ??????:

```
sudo systemctl restart zabbix-agent
```

????????? UserParameter ??? ?????????????? ??????????:

```
sudo zabbix_agentd -t kics.discovery
```

?????? ?????????? JSON.

3.5.2 ???????? Discovery Rule

?? ???????? Zabbix ???????? ?? ?????????:

Configuration

? Hosts ? KICS for Networks ? Discovery ? Create discovery rule

????????? ?????????????? ??? ?????????? ??????????????:

- Name: KICS Services Discovery
- Type: Zabbix agent
- Key: kics.discovery
- Update interval: 1h

3.5.3 ???????? Item Prototype

??????? Discovery Rule:

Item prototypes ? Create item prototype

????????? ??????????????:

- Name: Service {#SERVICE} status
- Type: Zabbix agent
- Key: kics.status[{#SERVICE}]
- Type of information: Numeric (unsigned)
- Update interval: 1m

3.5.4 ???????? Trigger Prototype

????????? ?????? ?? Discovery Rule ??????????:

Trigger prototypes ? Create trigger prototype

????????? ??????????????:

- ????: Service {#SERVICE} is stopped
- ??????????: last(/KICS for Networks/kics.status[{#SERVICE}])=0
- Severity: High

?????? ?????????????? Discovery Zabbix ?????????????????? ??????????:

1) ?????????? ??????????:

- Service kics4net status
- Service kics4net-apm status
- ..

- Service kics4net-webserver status

2) ??????????:

- Service kics4net is stopped
- Service kics4net-apm is stopped
- ...
- Service kics4net-webserver is stopped

???? ?????????????? ???? ?? ?????????? KICS for Networks:

```
sudo systemctl stop kics4net-webserver
```

?? ? Problems ?????????? ?????? ??????????????: Service kics4net-webserver is stopped

Revision #3

Created 26 June 2026 12:18:09 by Boris Doroshenko

Updated 26 June 2026 14:03:29 by Boris Doroshenko