Zabbix

This guide is written when installing Zabbix V5.0.1. Terminology: *Host* and *Client* are equivalent, *Server* and *Zabbix server* are equivalent.

Repository

- Install Zabbix repository

```
# wget
https://repo.zabbix.com/zabbix/5.0/debian/pool/main/z/zabbix-release/za
bbix-release_5.0-1+buster_all.deb
# dpkg -i zabbix-release_5.0-1+buster_all.deb
# apt update
```

- Replace *buster* with *stretch* for Debian 9

Server Installation

- Install Zabbix server, frontend, agent

```
# apt install zabbix-server-mysql zabbix-frontend-php zabbix-apache-
conf zabbix-agent
```

- Create initial database

```
# mysql -uroot -p
password
mysql> create database zabbix character set utf8 collate utf8_bin;
mysql> create user zabbix@localhost identified by 'password';
mysql> grant all privileges on zabbix.* to zabbix@localhost;
mysql> quit;
```

- Import initial schema and data. You will be prompted to enter your newly created password.

```
# zcat /usr/share/doc/zabbix-server-mysql*/create.sql.gz | mysql -
uzabbix -p zabbix
```

- Configure the database for Zabbix server

```
sudo vim /etc/zabbix/zabbix_server.conf
DBPassword=password
```

- Configure PHP for Zabbix frontend, edit file /etc/zabbix/apache.conf, uncomment and set the right timezone for you.
- Start Zabbix server and agent processes and make it start at system boot

```
# systemctl restart zabbix-server zabbix-agent apache2
# systemctl enable zabbix-server zabbix-agent apache2
```

- See Install and configure Zabbix server for your platform

Server Configuration

- Connect to your newly installed Zabbix frontend: http://server_ip_or_name/zabbix
- Follow steps described in Zabbix documentation
- In the last step you need to save the configuration.
  1. Make /usr/share/zabbix/conf writeable for the apache2 user (www-data or bakuppc)
  2. Rename the symbolic link then save the configuration
  3. Move the configuration file to /etc/zabbix/web/
  4. Rename back the symbolic link
  5. If running under a default BackupPC installation change ownership of /etc/zabbix/web from www-data to backuppc

Apache Setup

- If you run a separate server and want to make the web interface available, you need to setup a VirtualHost proxy on your main apache server. How this is done is described in Apache 2.4 and PHP 7.4

Clients Installation

Debian 10

Host

- Install Zabbix agent

```
# apt install zabbix-agent
```

- Modify /etc/zabbix/zabbix_agentd.conf:

```
#DenyKey=system.run[*]
Server=192.168.x.x
ServerActive=192.168.x.x
Hostname=<hostname> # must be identical to the one used in Zabbix
server configuration
```

- Start Zabbix agent process and make it start at system boot

```
# systemctl start zabbix-agent
# systemctl enable zabbix-agent
```

- Allow port 10050 in the host firewall, e.g. UFW Firewall
- Allow port 10051 in the inter-zone firewall (if host is on different subnet than server), e.g. host → server, to allow active checks

Server

- Create new host with interface *Agent* on IP address 192.168.x.x
- Make sure the host name corresponds to *Hostname* in the configuration file of the host
- Choose *Linux servers* as group
- Choose *Template OS Linux by Zabbix agent* template under tab *templates*

Synology DSM6

Host

- Enable SNMPv2 and set community name in Control Panel → Terminal & SNMP

Server

- Create new host with interface *SNMP*
- Import template xml file from Zabbix + Synology
- Choose *Templates* as group
- Choose *Template Synology DiskStation* template under tab *templates*
- Set the {$SNMP_COMMUNITY} macro in host/macros tab

Windows 10

Host

- Download Zabbix agent. Unzip and move to a folder, e.g. C:\zabbix.
- Modify C:\zabbix\conf\zabbix_agentd.conf:

```
#DenyKey=system.run[*]
Server=192.168.x.x
ServerActive=192.168.x.x
#Hostname=Windows host
HostnameItem=system.hostname # this is the Windows hostname, must be
identical to the one used in Zabbix server configuration
```

- Open a command prompt as administrator, start zabbix agent process and make it start at system boot

```
C:\> C:\zabbix\bin\zabbix_agentd.exe -c
C:\zabbix\conf\zabbix_agentd.conf -i
```

```
C:\> C:\zabbix\bin\zabbix_agentd.exe -c
C:\zabbix\conf\zabbix_agentd.conf -s
```

- Open Windows firewall, select *Change settings* then *Allow another app...*, and browse to the agent executable, e.g. C:\zabbix\bin\zabbix_agentd.exe. Add the app to the firewall.

Server

- Create new host with interface *Agent*
- Make sure the host name corresponds to *Hostname* in the configuration file of the host
- Choose *Templates/Operating systems* as group
- Choose *Template OS Windows by Zabbix agent* template under tab *templates*

Links

- how do I find my computer's hostname
- How to Install Zabbix Agent and Add Windows Host to Zabbix Monitoring

Links

- How To Use ZABBIX Maps For Better Visualization

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Last update: **2020/06/23 19:36**