

ZABBIX

Zabbix is an open-source monitoring software for networks and applications. It offers real-time monitoring of thousands of metrics collected from servers, virtual machines, network devices, and web applications.

Prerequisites

Install Ubuntu 20.04 server

Install Ubuntu 20.04 LEMP Stack

Installing the Zabbix Server

a. Install Zabbix repository

```
wget
https://repo.zabbix.com/zabbix/6.4/ubuntu/pool/main/z/zabbix-rel
ease/zabbix-release_6.4-1+ubuntu20.04_all.deb

dpkg -i zabbix-release_6.4-1+ubuntu20.04_all.deb

apt update
```

b. Install Zabbix server, frontend, and agent

```
apt install zabbix-server-mysql zabbix-frontend-php
zabbix-nginx-conf zabbix-sql-scripts zabbix-agent
```

c. Create initial database

Make sure you have a database server up and running.
Run the following on your database host.

```
mysql -uroot -p
Password
mysql> create database zabbix character set utf8mb4 collate
utf8mb4_bin;
mysql> create user zabbix@localhost identified by 'password';
```

```
mysql> grant all privileges on zabbix.* to zabbix@localhost;
mysql> set global log_bin_trust_function_creators = 1;
mysql> quit;
```

Zabbix server host import initial schema and data.

You will be prompted to enter your newly created password.

```
zcat /usr/share/zabbix-sql-scripts/mysql/server.sql.gz | mysql
--default-character-set=utf8mb4 -uzabbix -p zabbix
```

Disable the log_bin_trust_function_creators option after importing the database schema.

```
mysql -uroot -p
password
mysql> set global log_bin_trust_function_creators = 0;
mysql> quit;
```

d. Configure the database for Zabbix server

Edit file /etc/zabbix/zabbix_server.conf

```
DBPassword=password
```

e. Configure PHP for Zabbix frontend

Edit file /etc/zabbix/nginx.conf uncomment and set 'listen' and 'server_name' directives.

```
listen 8080;
server_name example.com; (192.168.52.145)
```

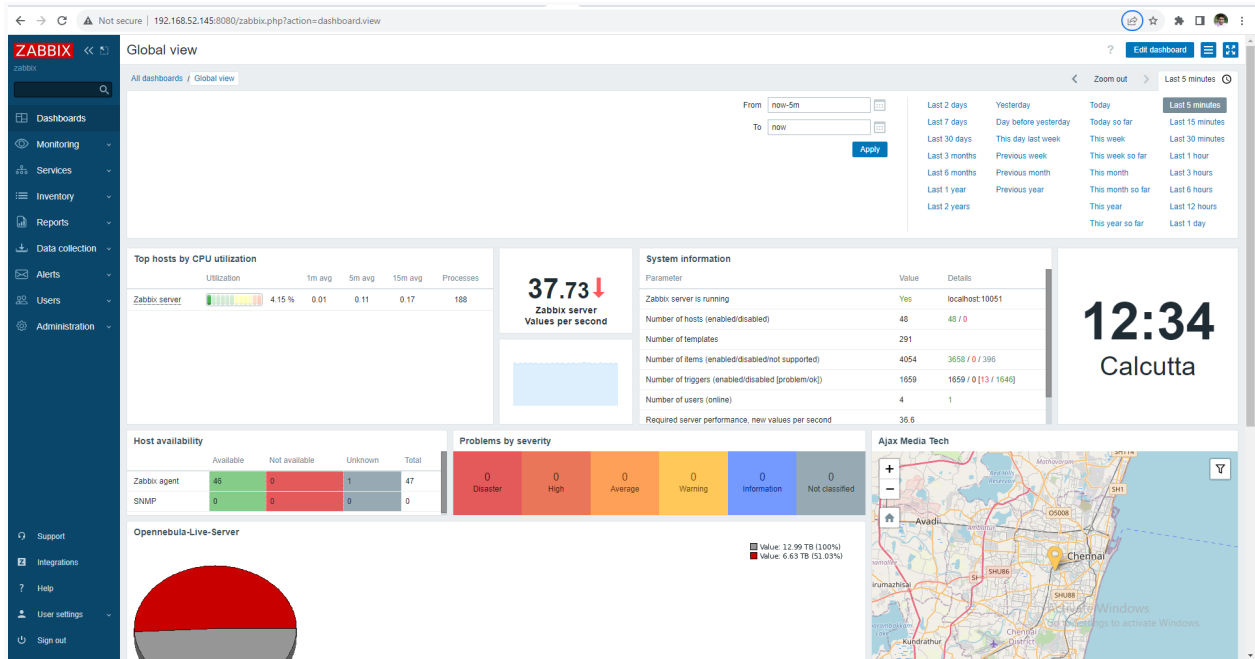
f. Start Zabbix server and agent processes

Start Zabbix server and agent processes and make it start at system boot.

```
systemctl restart zabbix-server zabbix-agent nginx php7.4-fpm
# systemctl enable zabbix-server zabbix-agent nginx php7.4-fpm
```

g. Open Zabbix UI web page

<http://192.168.52.145:8080/>



Host Added

Goto Monitoring > Hosts> Create host

New host

Host IPMI Tags Macros Inventory Encryption Value mapping

* Host name

Visible name

Templates

* Host groups

Interfaces No interfaces are defined.
[Add](#)

Description

Monitored by proxy (no proxy)

Enabled ☒

After Host add

The screenshot shows the 'Host' configuration window in Zabbix. The 'Host name' field is set to 'Opennebula Live Server'. The 'Visible name' field is also 'Opennebula Live Server'. Under 'Templates', 'Linux by Zabbix agent' and 'Template OpenNebula' are selected. The 'Host groups' section shows 'Applications', 'Databases', 'Hypervisors', 'Linux servers', 'server.x', 'Virtual machines', 'zabbix series', and 'Zabbix servers' selected. The 'Interfaces' table shows one interface with IP address '192.168.52.21' and port '10050'. The 'Description' field is empty. The 'Monitored by proxy' dropdown is set to '(no proxy)'. The 'Enabled' checkbox is checked. At the bottom, there are buttons for 'Update', 'Clone', 'Full clone', 'Delete', and 'Cancel'.

Interfaces	Type	IP address	DNS name	Connect to	Port	Default
Agent		192.168.52.21		IP DNS	10050	<input checked="" type="radio"/> Remove

Zabbix agent installation on Windows

https://www.zabbix.com/download_agents?version=6.4&release=6.4.8&os=Windows&os_version=Any&hardware=amd64&encryption=OpenSSL&packaging=MSI&show_legacy=0

The screenshot shows the 'Zabbix Agent (64-bit) v6.4.8 Setup' window. The title bar says 'Zabbix Agent (64-bit) v6.4.8 Setup'. The main title is 'Zabbix Agent service configuration'. Below the title, it says 'Please enter the information for configure Zabbix Agent'. The 'Host name' field is set to 'DESKTOP-U4H2C5T'. The 'Zabbix server IP/DNS' field is set to '192.168.52.145'. The 'Agent listen port' field is empty. The 'Server or Proxy for active checks' field is set to '127.0.0.1'. There are two checkboxes: 'Enable PSK' and 'Add agent location to the PATH', both of which are unchecked. At the bottom, there is a note: '* The previous configuration file will be renamed to zabbix_agentd.conf.old.6.0.22.2400'. There are three buttons: 'Back', 'Next', and 'Cancel'.

Zabbix agent installation on Linux

```
Sudo apt install zabbix-agent
```

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

Edit conf file Add zabbix server Ip and Hostname

```
Server=127.0.0.1,192.168.52.145
```

```
Hostname= Zabbix server
```