How to Display the Results of a Script in Zabbix?

written by sysadmin | 22 October 2025

I want to create a monitoring to check if a site is in an error state or not using a script, and the results of this script will be sent to Zabbix for monitoring.

Problem

How to display the results of a script in Zabbix?

Solution

For example, I have a sysadminpedia.com site and want to monitor the site. The way I do monitoring is to look for wordpress writing on the site, and if the wordpress writing is not on the site, it means that the site has an error. I use a bash script to monitor the word on sysadminpedia.com. For the site to be monitored by Zabbix based on the results of the script I created, follow the steps below:

1. Create a script

Log in to the Zabbix server, and you can use any folder to create your script, but I created a special folder for scripts in Zabbix using the command:

```
sudo mkdir -p /etc/zabbix/scripts
```

Then create a bash script in a folder with the file name **check-sysadminpedia-site.sh** and copy the script below:

```
#!/bin/bash

# Fetch the website content
content=$(curl -s https://sysadminpedia.com)
```

```
# Check if the word "wordpress" exists (case-insensitive)
if echo "$content" | grep -iq "wordpress"; then
  echo 1
else
  echo 0
fi
```

2. Change the user, group, and permission

Change the user and group on the file using the command below:

```
chown -R zabbix:zabbix /etc/zabbix/scripts/check-sysadminpedia-site.sh
```

After that, type the following command to make the script run:

```
chmod +x /etc/zabbix/scripts/check-sysadminpedia-site.sh
```

3. Configure in the zabbix_agent file

Add the below script in the file **/etc/zabbix/zabbix_agentd.conf**:

```
UserParameter=check-sysadminpedia-site,/etc/zabbix/scripts/check-
sysadminpedia-site.sh
```

4. Restart zabbix_agent

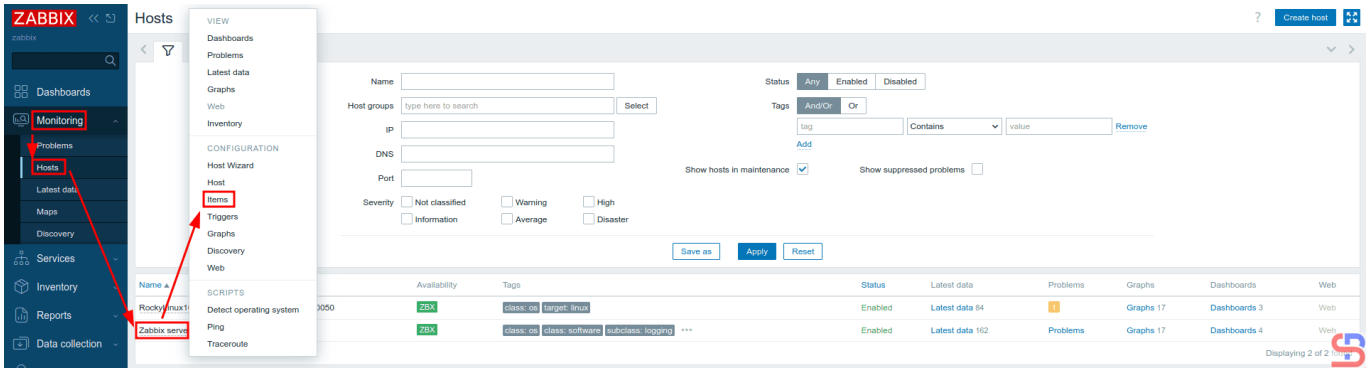
Restart the Zabbix agent using the following commands:

```
systemctl daemon-reload
systemctl restart zabbix-agent
```

5. Configure Zabbix

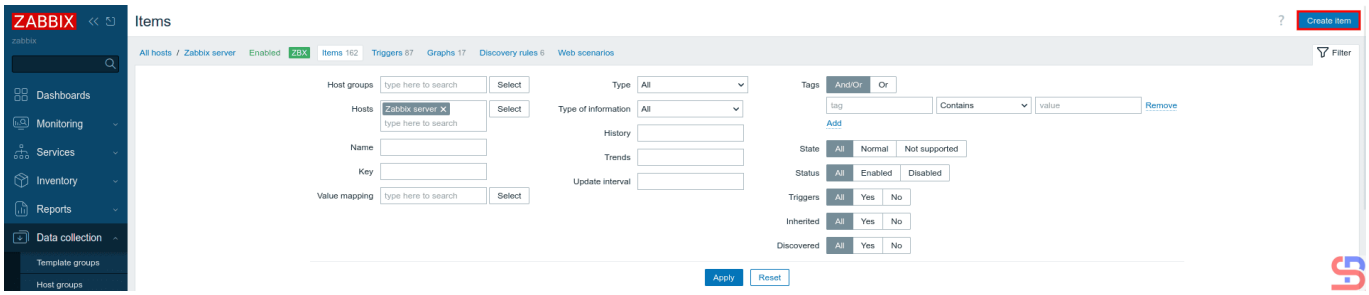
Go to your Zabbix application, select the Host you want to enter to display the results of this monitoring in Zabbix. I choose to use the Zabbix server host: **Monitoring > Hosts > Zabbix server > Items** in the **CONFIGURATION** like in the image

below:



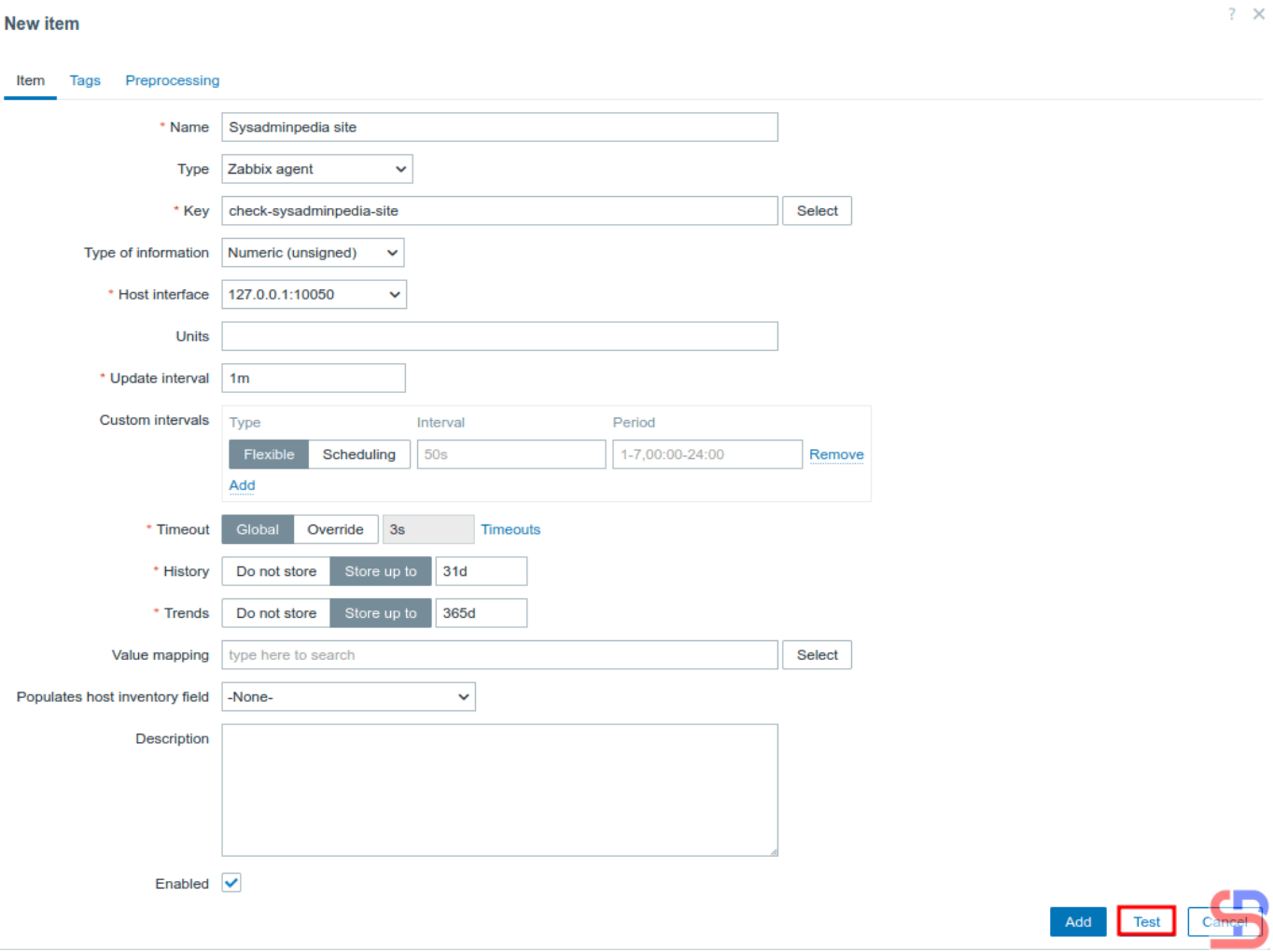
Click Items in the CONFIGURATION section

And there will be a display like the following:



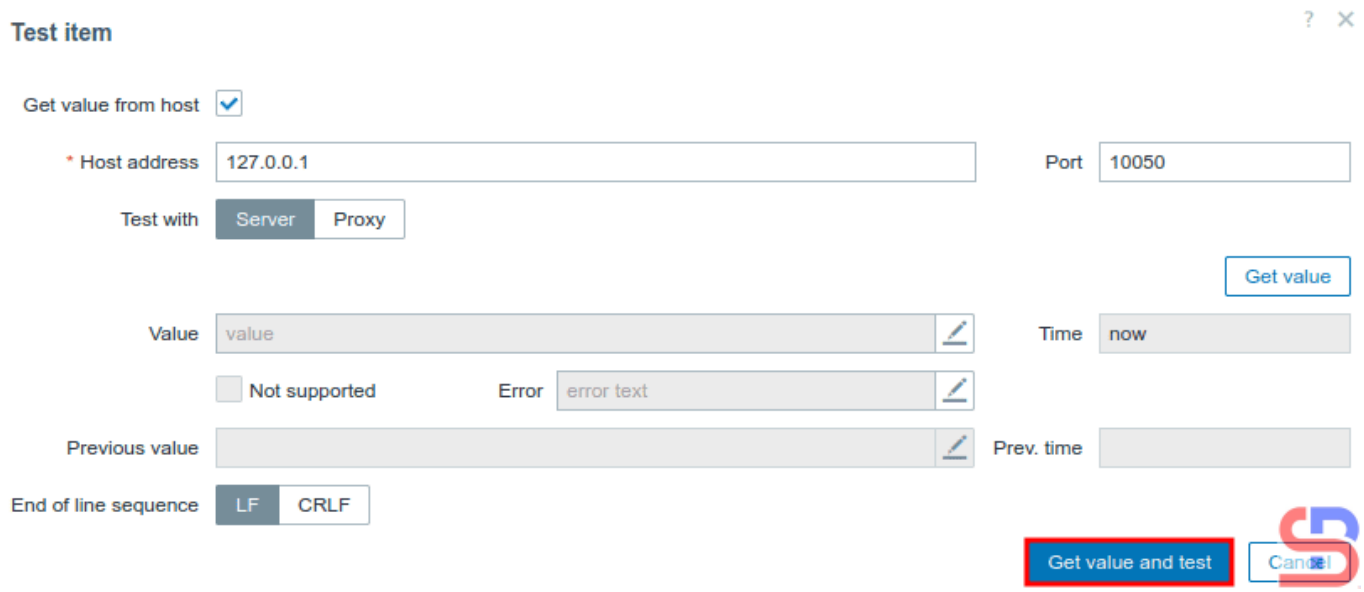
Click the Create item button

Click the **Create item** button, and then there will be a display as shown below:



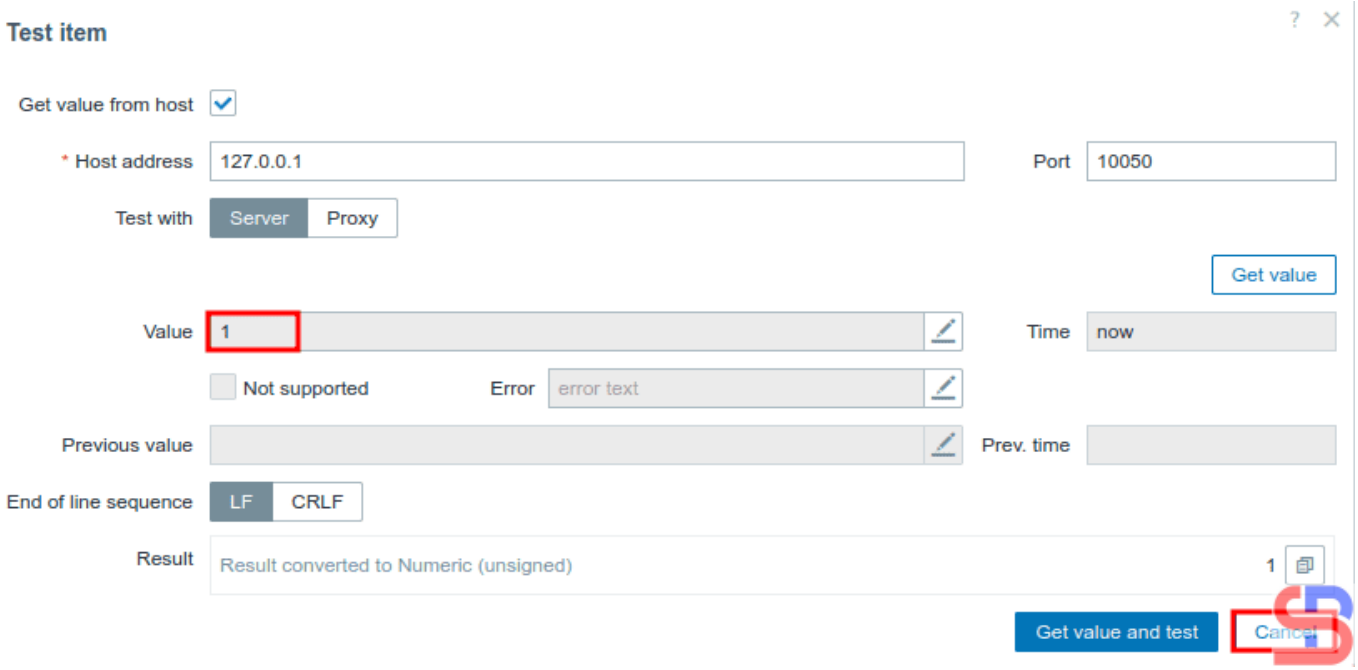
Click the Test button

I fill in the fields as in the image above, click the **Test** button, and then there will be a display as in the image below:



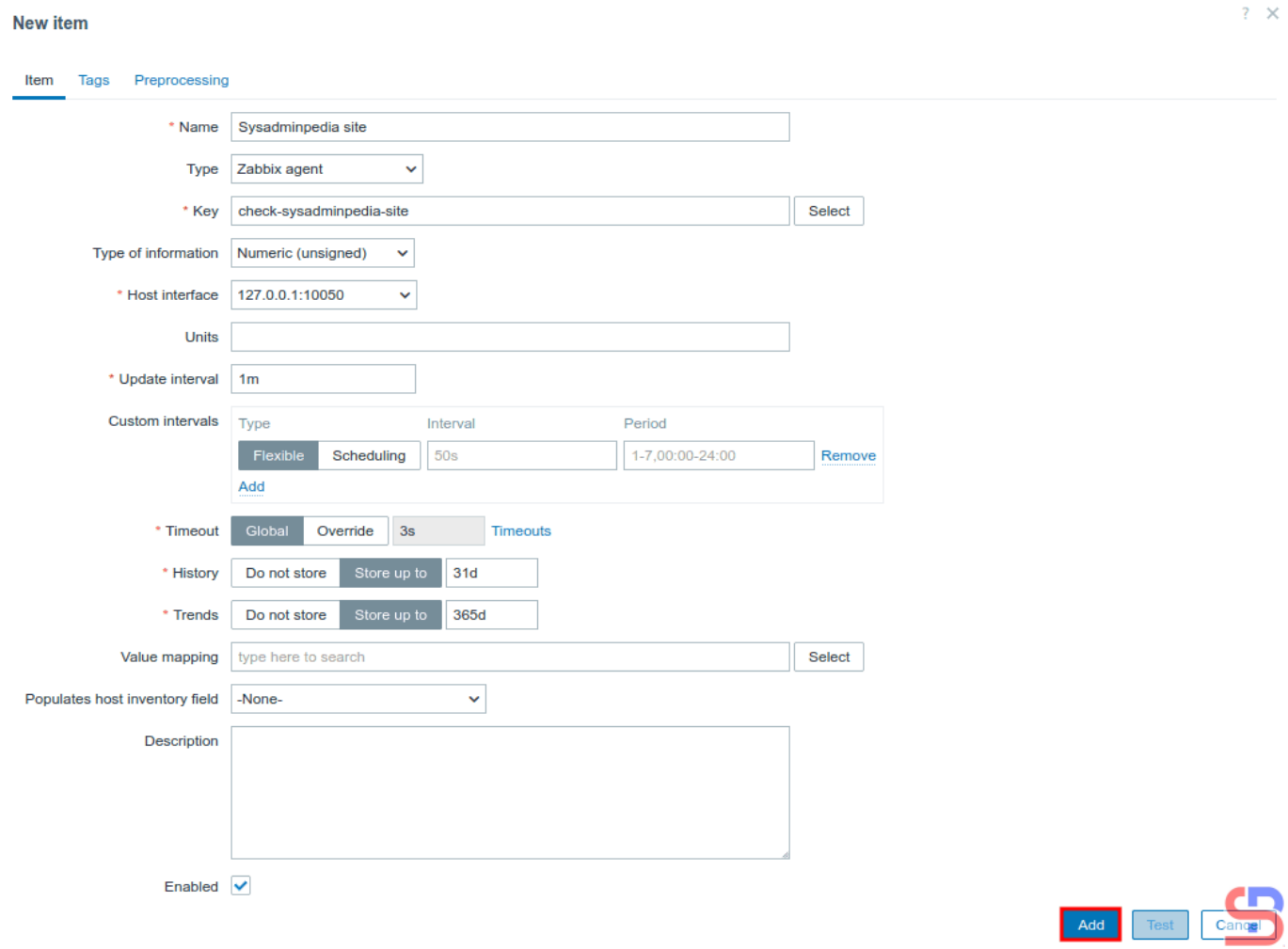
Click the Get value and test button

Click the **Get value and test** button, and in the **Value** section, there will be a value generated, either it is 1 or 0, according to the value in the bash script, as in the image below:



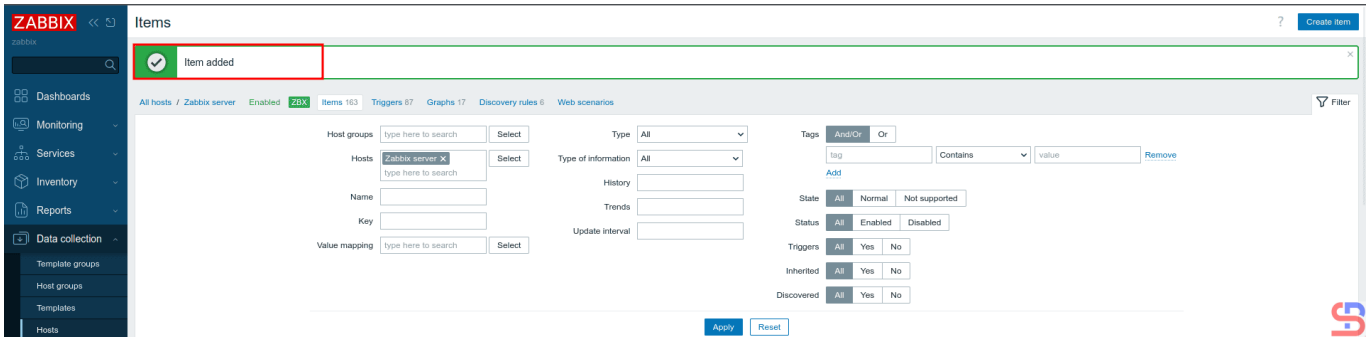
Click the Cancel button

You see from the image above, the Value is 1. Click the **Cancel** button, then it will return to the previous view, like the image below:



Click the Add button

After you press the Add button, there will be the text **Item added** as in the image below:

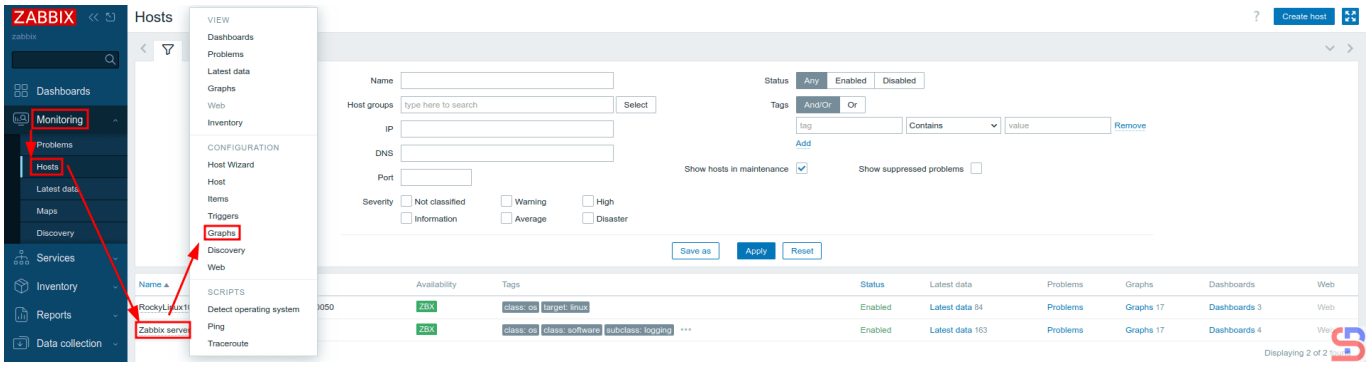


Succeed in adding an Item

6. Create a graph

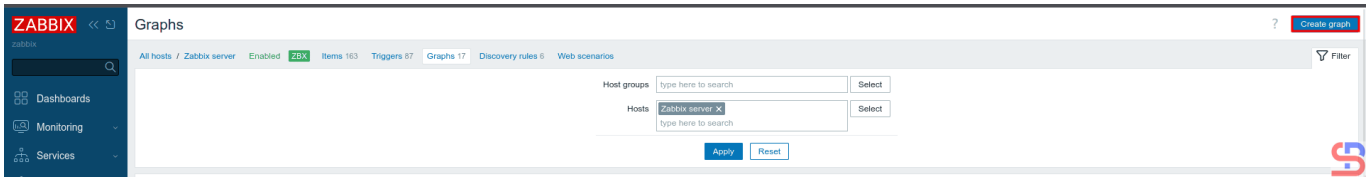
Then, create a graph for the result of the script by selecting the host that will display the result of the bash script. I choose to use the Zabbix server host: **Monitoring >**

Hosts > Zabbix server > Graphs in the **CONFIGURATION** section, like the image below:



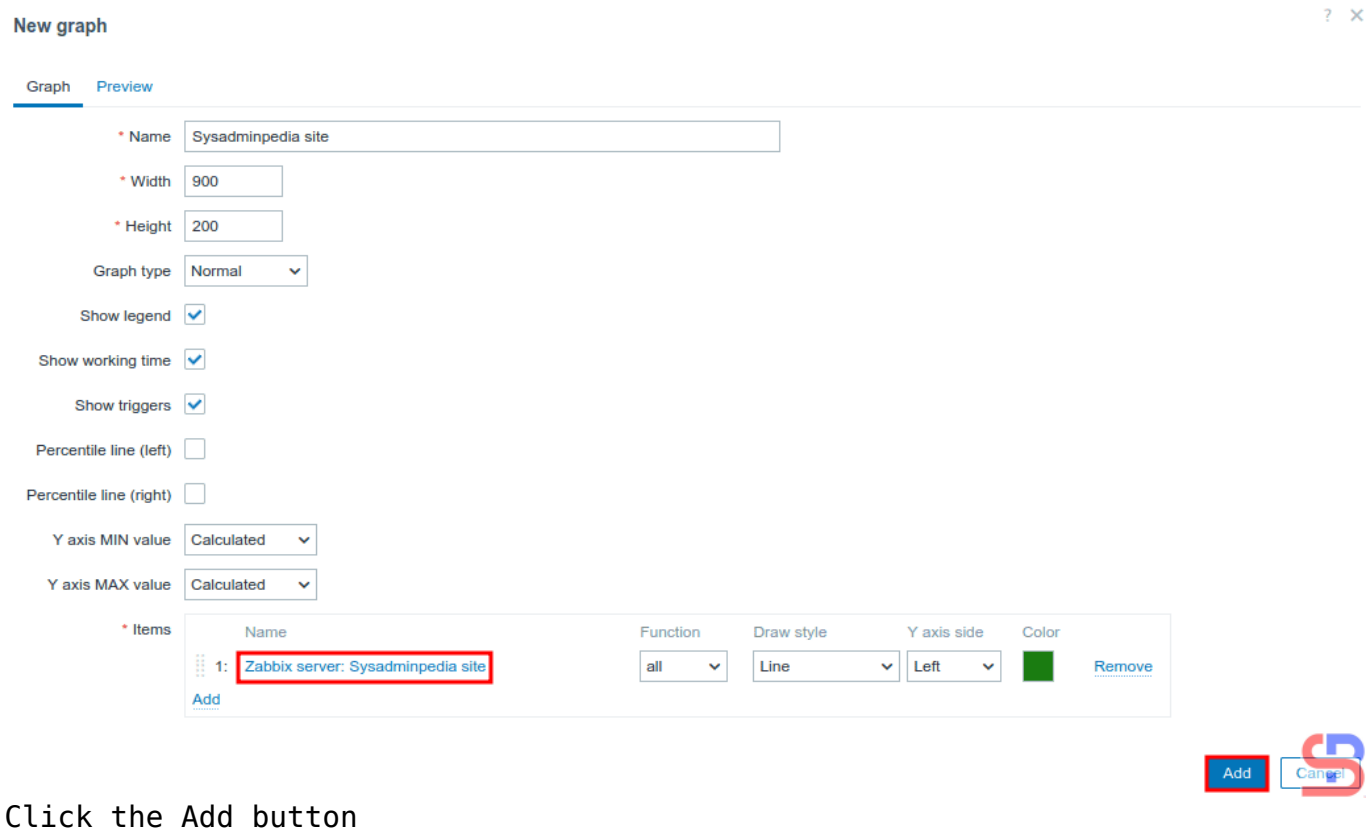
Click the Graphs in the CONFIGURATION section

And there will be a display as shown in the image below:



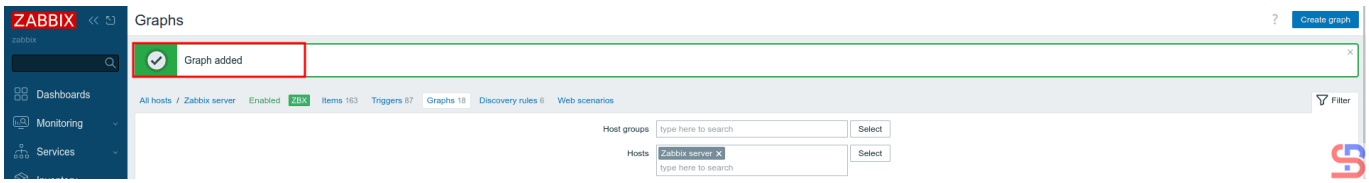
Click the Create Graph button

Click **Create Graph**, then there will be a display as below:



Click the Add button

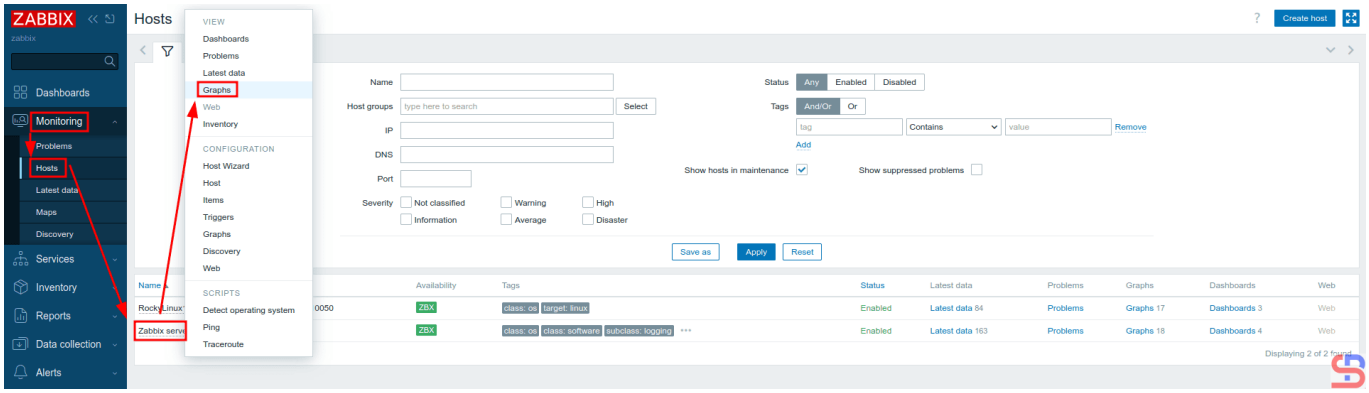
After that, click the **Add** button then there will be the text **Graph Added** as in the image below:



Succeed in adding a Graph

7. Display the graph

Wait a while, and to see the graph, you can go to **Monitoring > Hosts > Zabbix server > Graphs** in the **View** section, as shown in the image below:

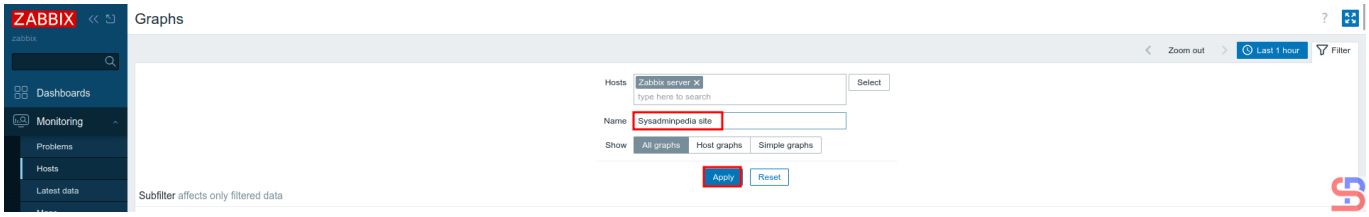


Click the Graphs in the VIEW section

Click the **Filter** button as shown in the image below:

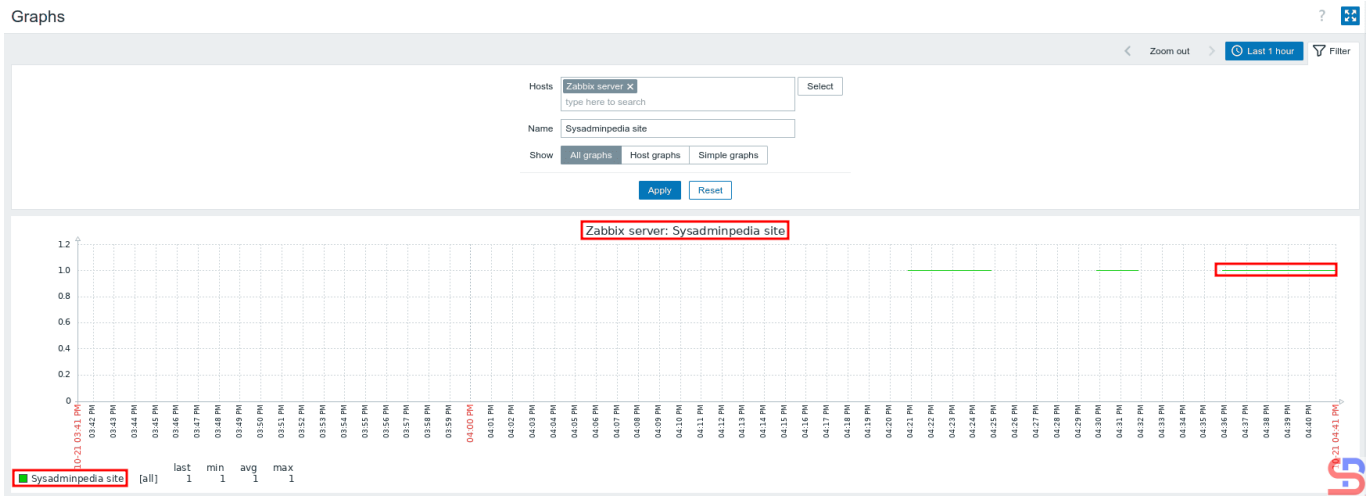
Click the Filter button

Then there will be a display as shown in the image below:



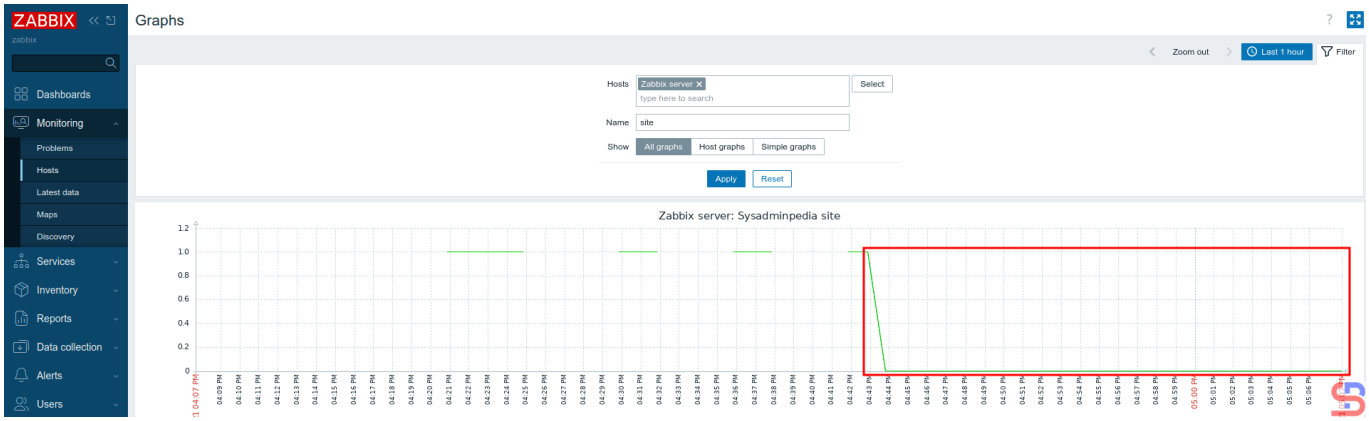
Type the name of the graph and click the Apply button

Type the name of the graph in the **Name** field, then click **Apply**, and then there should be a display below:



The graph from your script

If the site has an error, as known as there is no word wordpress, the graph will look as below:



When your script produces the error

And you successfully created a graph in Zabbix from the result of a script you made yourself.

Note

In this article, I used the Zabbix server to insert a script that monitors the server. However, you can use another host for your script, so you can do points 1 to 4 in the explanation above on another host.

References

blog.zabbix.com
youtube.com
sbcode.net

How to Add a Linux Host to be Monitored by Zabbix?

written by sysadmin | 22 October 2025

The previous article explained how to install the Zabbix application on Ubuntu. This article will explain how to add a Linux host to be monitored by Zabbix.

Problem

How to add a Linux host to be monitored by Zabbix?

Solution

This article will add a RockyLinux10 host, which will be monitored by Zabbix with IP 192.168.56.104, while the Zabbix server IP is 192.168.56.101. So that the host can be monitored by Zabbix, you must install the Zabbix-Agent on the host. Here are the steps:

A. On Remote Host

Check whether on your RockyLinux server, you have the file **/etc/yum.repos.d/epel.repo**. Don't worry if your server does not have the epel.repo file, but if the file exists on your server, you can add the script below:

```
excludepkgs=zabbix*
```

After that, run the commands below:

```
rpm -Uvh
https://repo.zabbix.com/zabbix/7.4/release/rocky/10/noarch/zabbix-release-lat
est-7.4.el10.noarch.rpm
dnf clean all
dnf install zabbix-agent -y
```

After you install the zabbix agent, go to copy the file **/etc/zabbix/zabbix_agentd.conf** as a backup:

```
cp /etc/zabbix/zabbix_agentd.conf /etc/zabbix/zabbix_agentd.conf.ori
```

Then go into the file and change the **Server** section to your Zabbix server IP (which in this article is IP **192.168.56.101**), and in the **Hostname** section, you are free to fill in, and I changed it to RockyLinux10, so the file looks like the one below:

```
[root@RockyLinux10 ~]# grep -v "#" /etc/zabbix/zabbix_agentd.conf | grep -v '^$'
PidFile=/run/zabbix/zabbix_agentd.pid
LogFile=/var/log/zabbix/zabbix_agentd.log
LogFileSize=0
Server=192.168.56.101
ServerActive=192.168.56.101
Hostname=RockyLinux10
Include=/etc/zabbix/zabbix_agentd.d/*.conf
[root@RockyLinux10 ~]#
```

The zabbix_agentd.conf file

If your RockyLinux server has a firewall, open port 10050 using the command:

```
firewall-cmd --permanent --zone=public --add-port=10050/tcp
firewall-cmd --reload
```

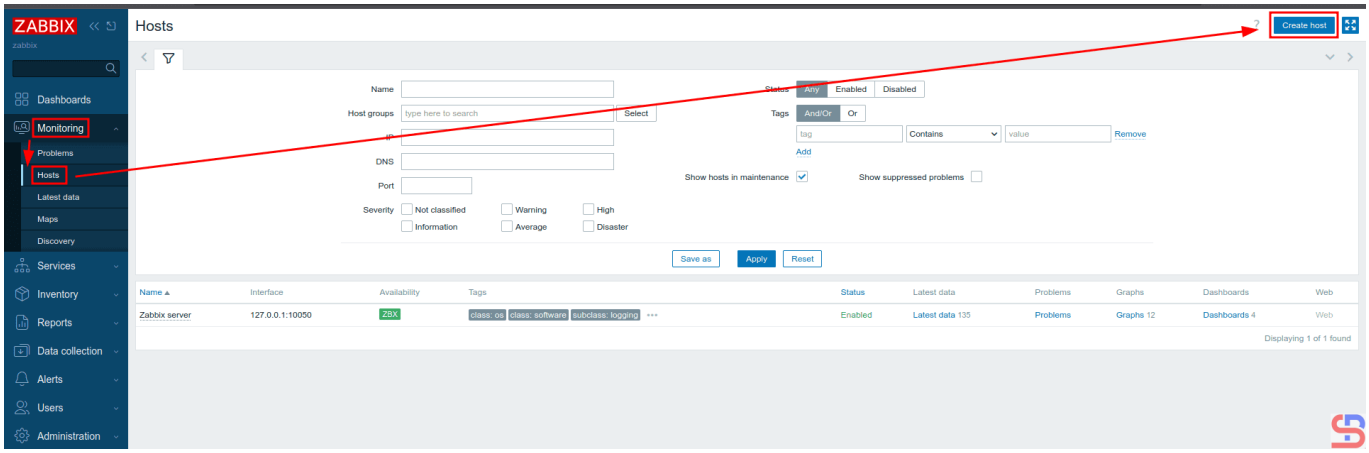
Then run the two commands below:

```
systemctl restart zabbix-agent
systemctl enable zabbix-agent
```

To view the log on zabbix-agent, open the file **/var/log/zabbix/zabbix_agentd.log** on your server.

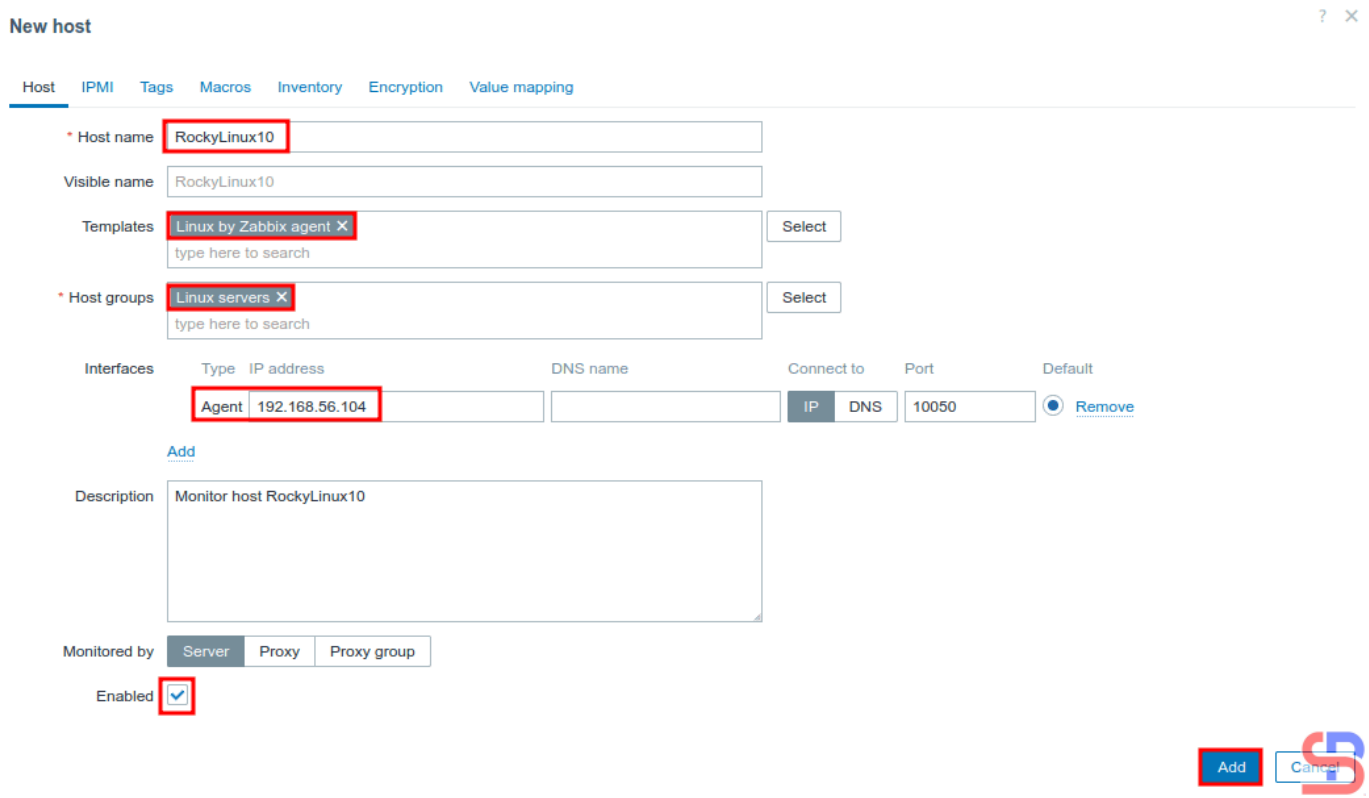
B. On the Zabbix server

On the Zabbix server, enter the Zabbix application via your browser, then select **Monitoring > Hosts > Create Host** as in the image below:



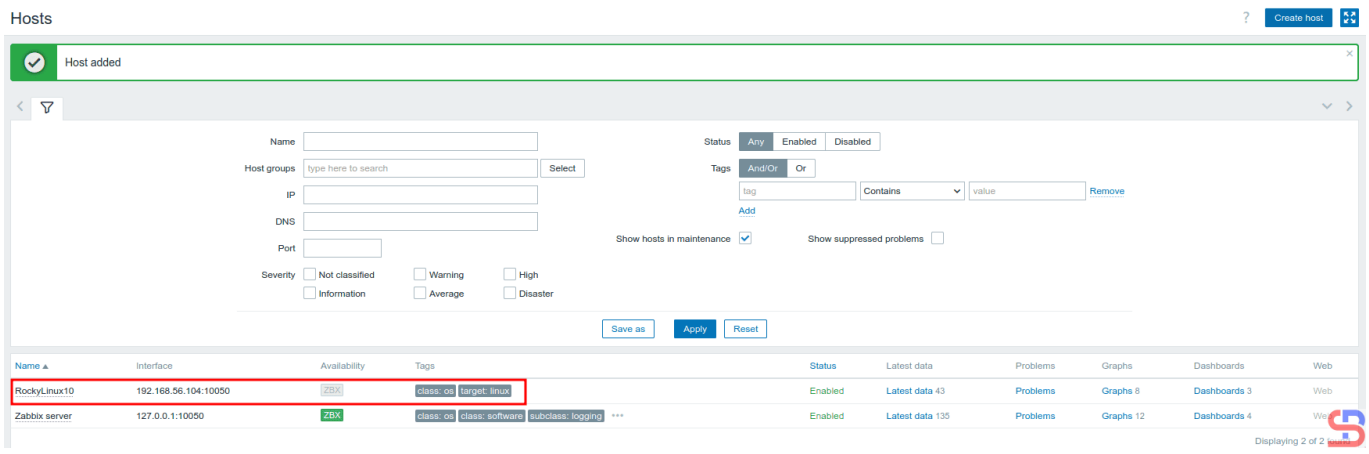
Add the host to Zabbix

After that, there will be a display like below. You have to fill in the columns according to the host you will monitor. I filled them in as shown in the image below:



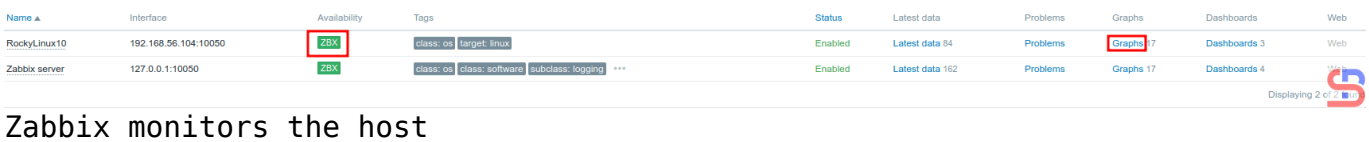
Configure a new host in Zabbix

When finished, click the **Add** button, and you will see a display like the one below:



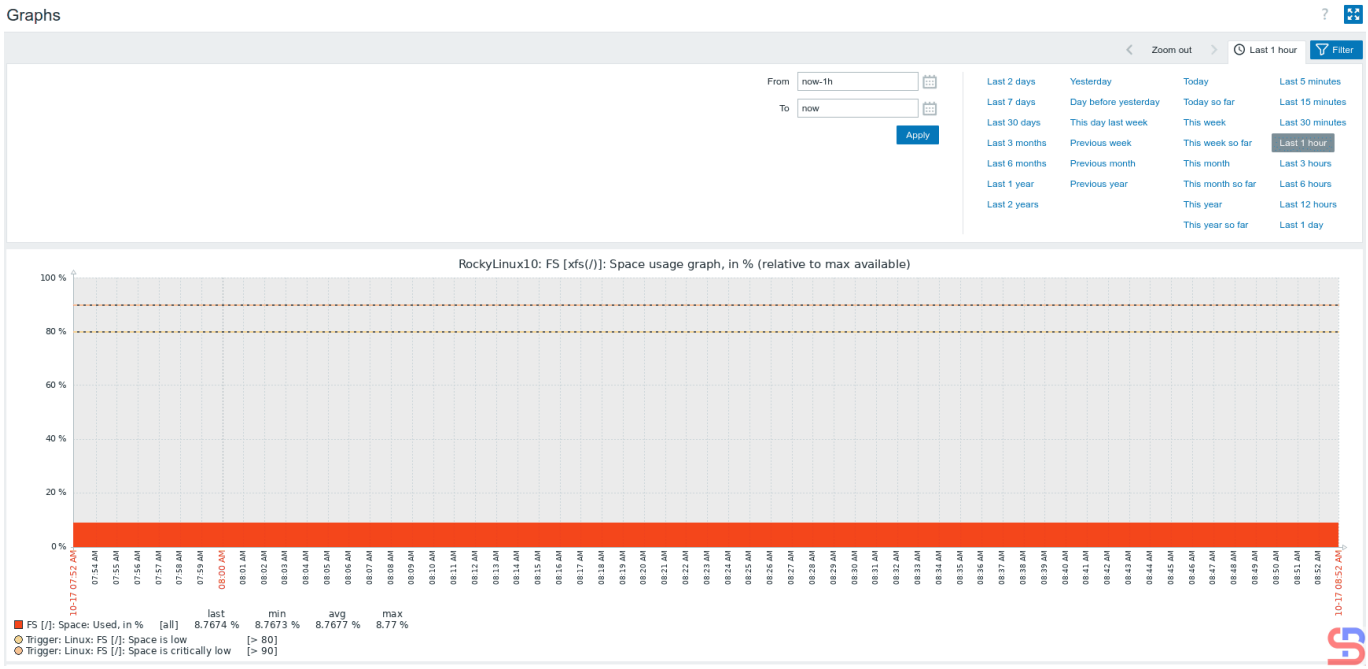
After the Host added

Wait a few moments, and the Zabbix application should be able to monitor your host, which is marked with the word **ZBX** in green, as in the image below:



Zabbix monitors the host

To see the graph of the host, click on the words **Graphs**, so there will be a display like the one below:

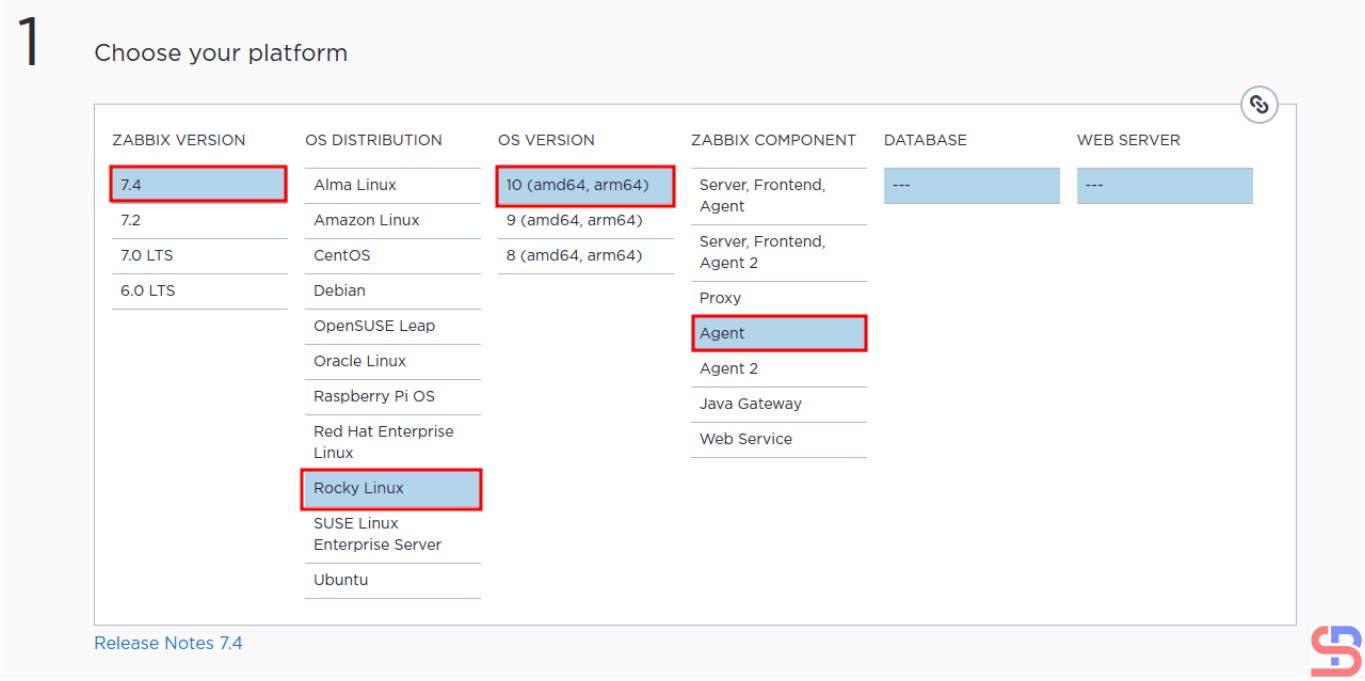


The graphs of the host

And you have successfully added a host to the Zabbix application.

Note

If you want to add a host that Zabbix wants to monitor, you can go to this address to see the steps to install the Zabbix agent on your server. Make sure the Zabbix version selected is the same as the Zabbix version running on the server. The following is an example image for installing the Zabbix agent on the RockyLinux10 host, which is used as an example in this article:



Choose the OS host to install Zabbix Agent

And don’t forget to open Port 10050 on the host you want to monitor so that the Zabbix application can access that host.

References

[tecadmin.net]
[zabbix.com]
[bestmonitoringtools.com]

How to Install Zabbix On Ubuntu?

written by sysadmin | 22 October 2025

Zabbix is an open-source software tool to monitor IT infrastructure such as networks, servers, virtual machines, and cloud services.

Problem

How to install Zabbix in Ubuntu?

Solution

Zabbix was first released in 2001, and as of this writing in October 2025, Zabbix has version 7.4. This article will explain how to install Zabbix on an Ubuntu server by using MariaDB and Apache databases.

A. Install Zabbix

Run the commands below to install Zabbix on Ubuntu:

```
wget
https://repo.zabbix.com/zabbix/7.4/release/ubuntu/pool/main/z/zabbix-release/
zabbix-release_latest_7.4+ubuntu24.04_all.deb
sudo dpkg -i zabbix-release_latest_7.4+ubuntu24.04_all.deb
sudo apt update
sudo apt install zabbix-server-mysql zabbix-frontend-php zabbix-apache-conf
zabbix-sql-scripts zabbix-agent
```

B. Database Configuration

If your Ubuntu doesn’t have a database, then you can use the MariaDB database by using the command:

```
sudo apt install mariadb-server
```

Then, create a password for root in MariaDB using the command:

```
sudo mariadb-secure-installation
```

After that, enter MariaDB using the command:

```
sudo mariadb -uroot -p
```

Run the commands below (change the **password** to what you want):

```
create database zabbix character set utf8mb4 collate utf8mb4_bin;
create user zabbix@localhost identified by 'password';
```

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

Run the command below to import the initial schema and data, and enter the password you created when you created the Zabbix database in MariaDB:

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

Then log in to MariaDB again using the command:

```
sudo mariadb -uroot -p
```

Run the command below to disable the log_bin_trust_function_creators option after importing the database schema.

```
set global log_bin_trust_function_creators = 0;
quit;
```

C. Configure the Zabbix file

After that, you will configure the zabbix file located in **/etc/zabbix/zabbix_server.conf**. It’s better if you copy the original file as a backup by running the command below:

```
sudo cp /etc/zabbix/zabbix_server.conf /etc/zabbix/zabbix_server.conf.ori
```

Fill in the DBPassword section of the file with the password you created for the Zabbix user, so that it is as follows:

```
sysadmin@ubuntu2404:~$ sudo grep -v "#" /etc/zabbix/zabbix_server.conf | grep -v '^$'
LogFile=/var/log/zabbix/zabbix_server.log
LogFileSize=0
PidFile=/run/zabbix/zabbix_server.pid
SocketDir=/run/zabbix
DBName=zabbix
DBUser=zabbix
DBPassword=password
SNMPTrapperFile=/var/log/snmptrap/snmptrap.log
Timeout=4
FpingLocation=/usr/bin/fping
Fping6Location=/usr/bin/fping6
LogSlowQueries=3000
StatsAllowedIP=127.0.0.1



EnableGlobalScripts=0
Include=/etc/zabbix/zabbix_server.d/*.conf
sysadmin@ubuntu2404:~$
```

Configuration on zabbix_server.conf file

Then run the two commands below:

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

D. Configure Zabbix

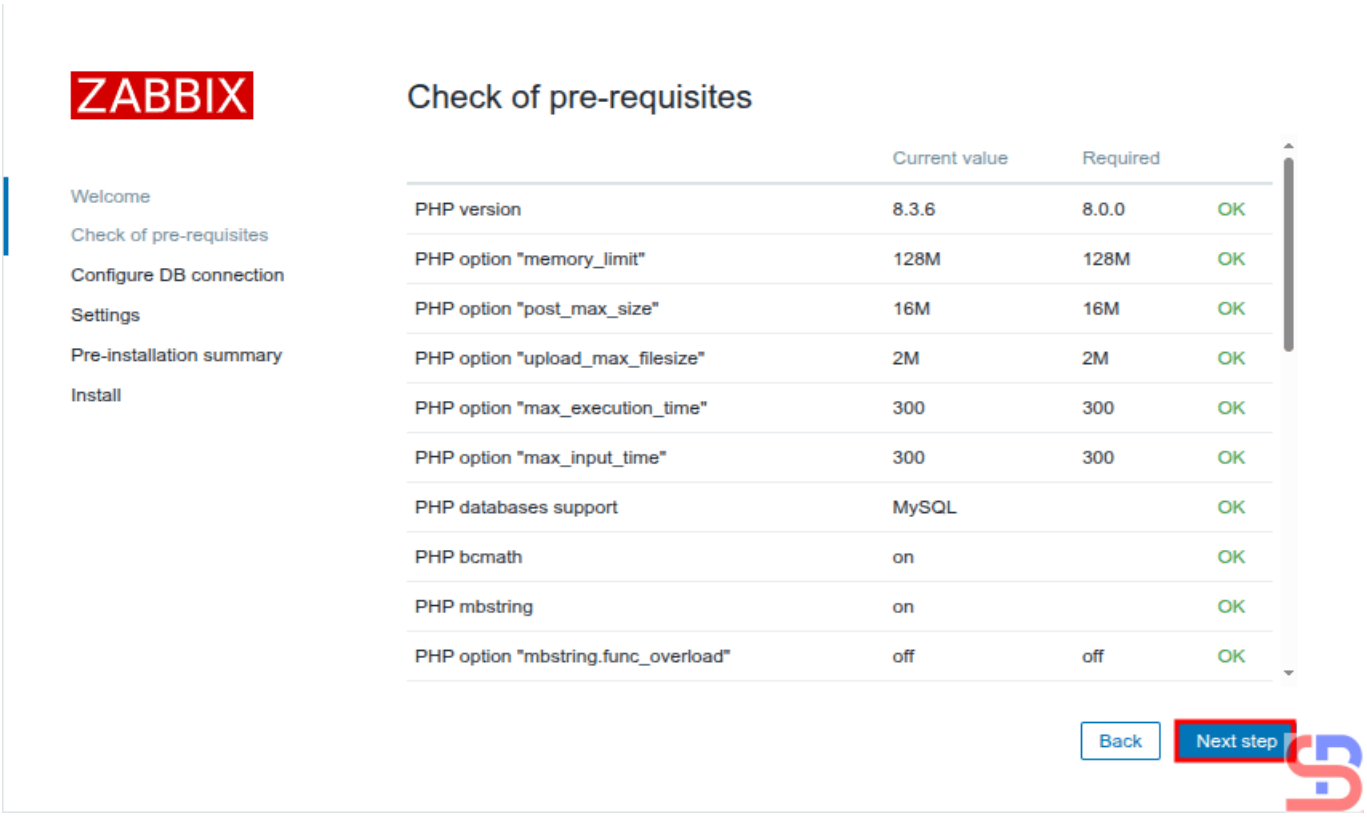
Open your browser and type in the URL below:

```
http://your_ip_server/zabbix
```

Then there will be a display like the image below:

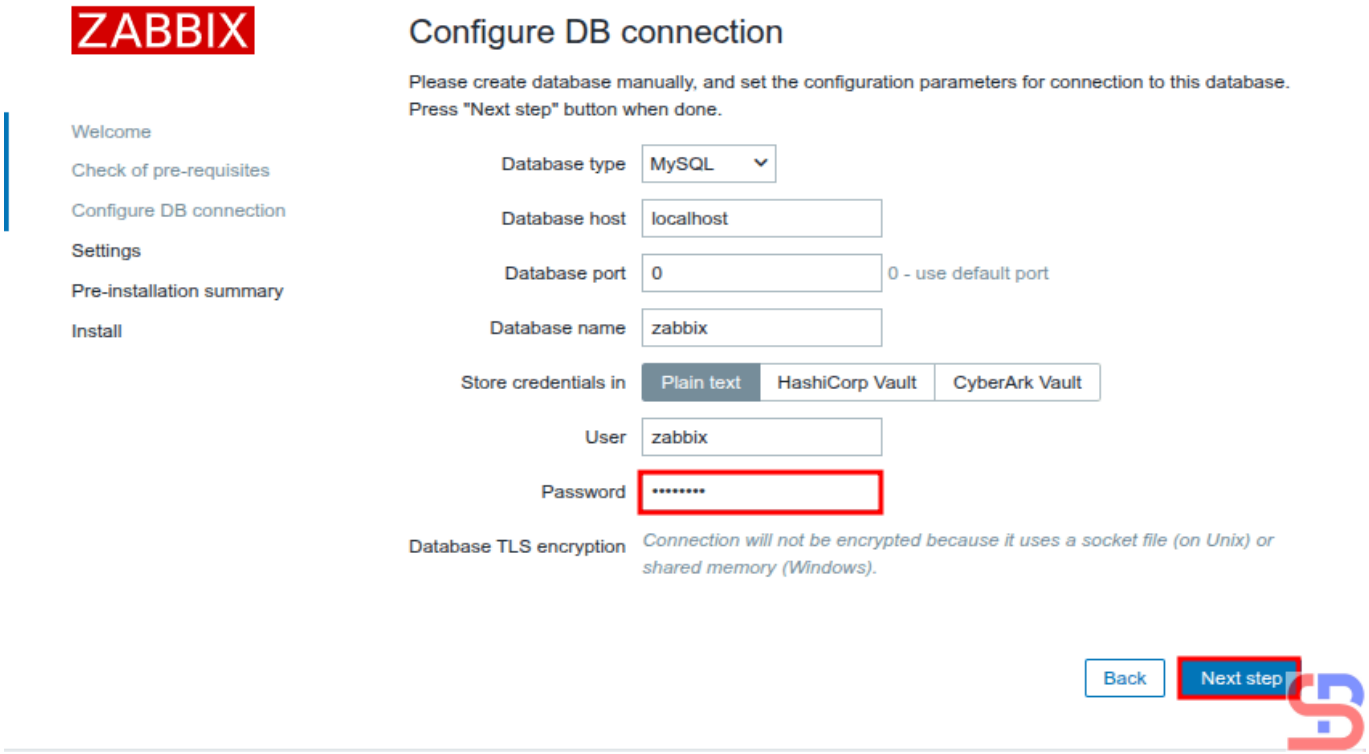
Configure Zabbix using your browser

Click the **Next step** button, and a display similar to the picture below will be present:



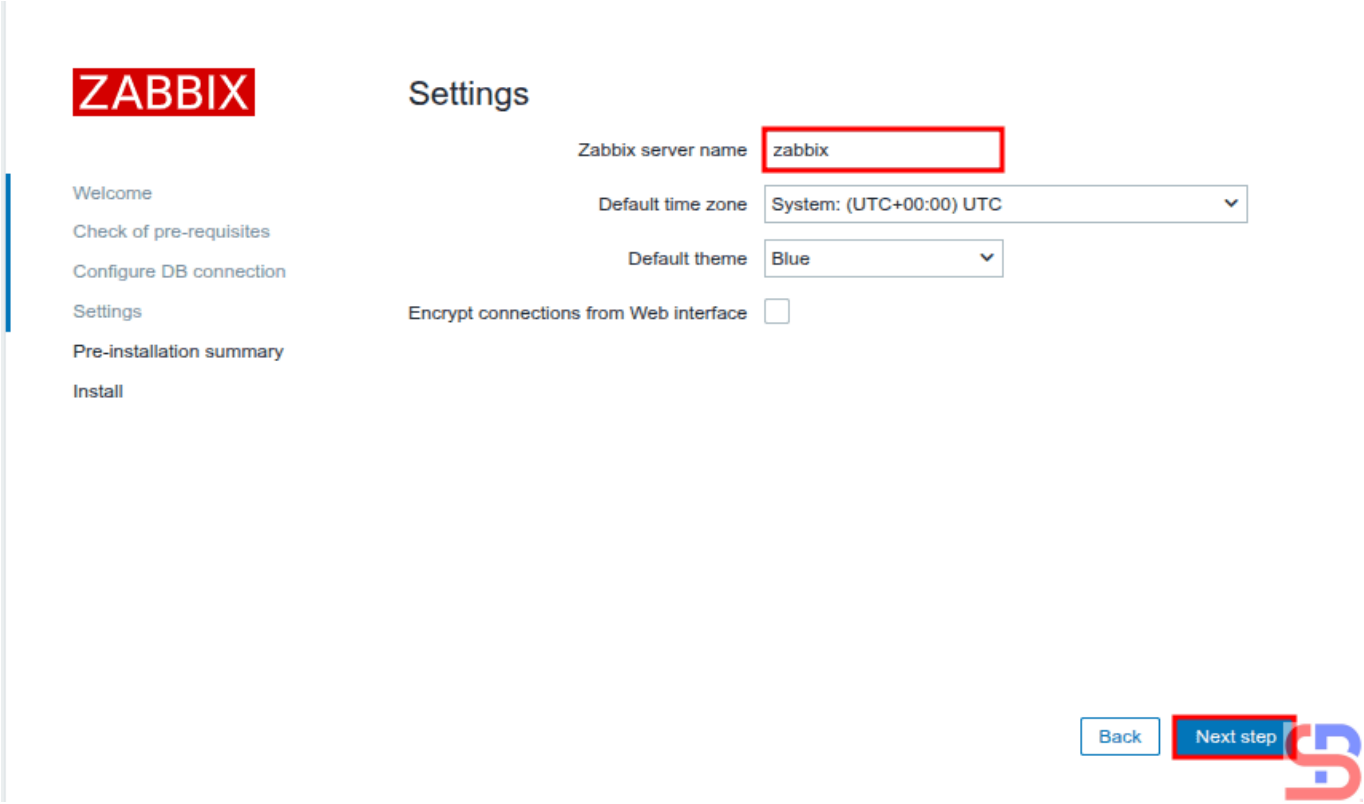
Checking of pre-requisites

Make sure there is no error like in the image above. After that, click the **Next step** button, and there will be a screen similar to the one below:



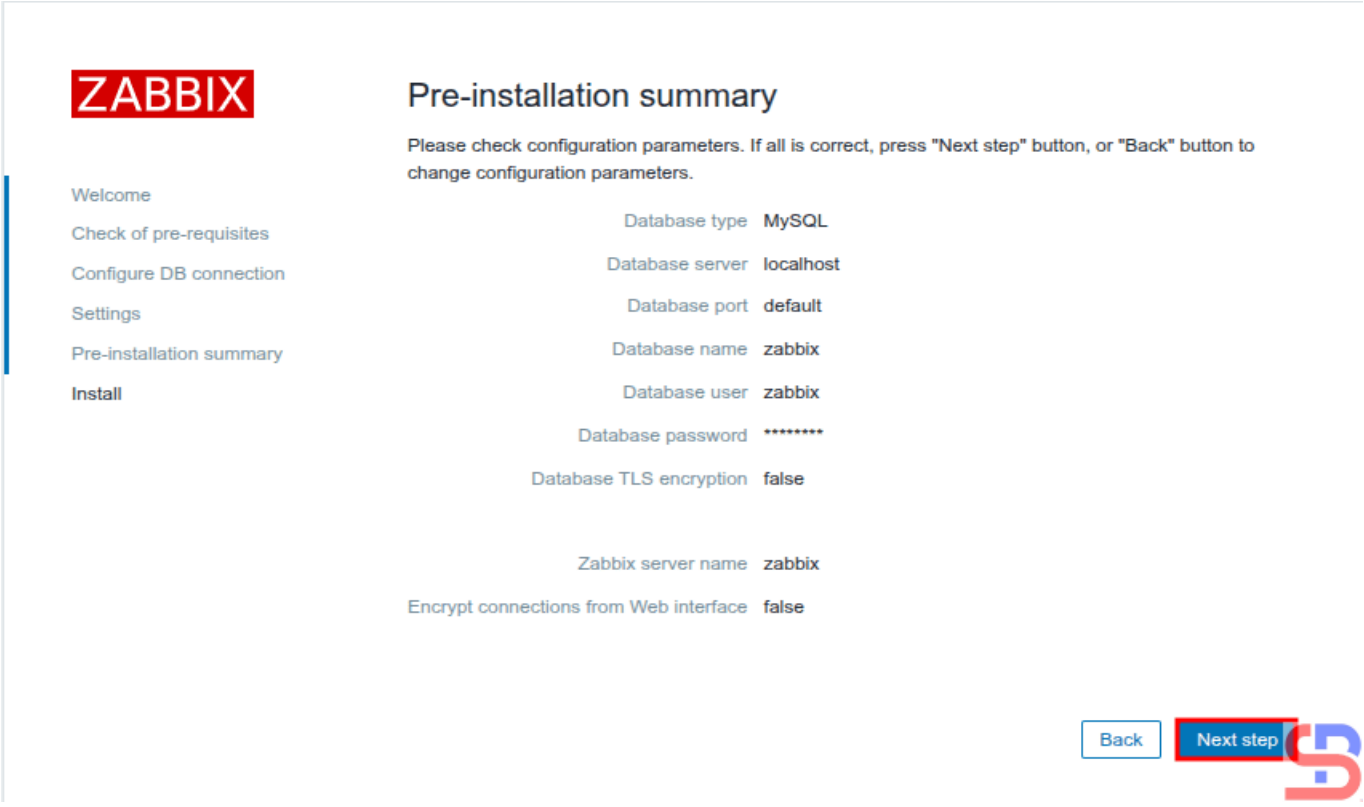
Enter the password of MariaDB

Enter your database password using the Zabbix user, click the **Next step** button, and a screen similar to the one below will be presented:



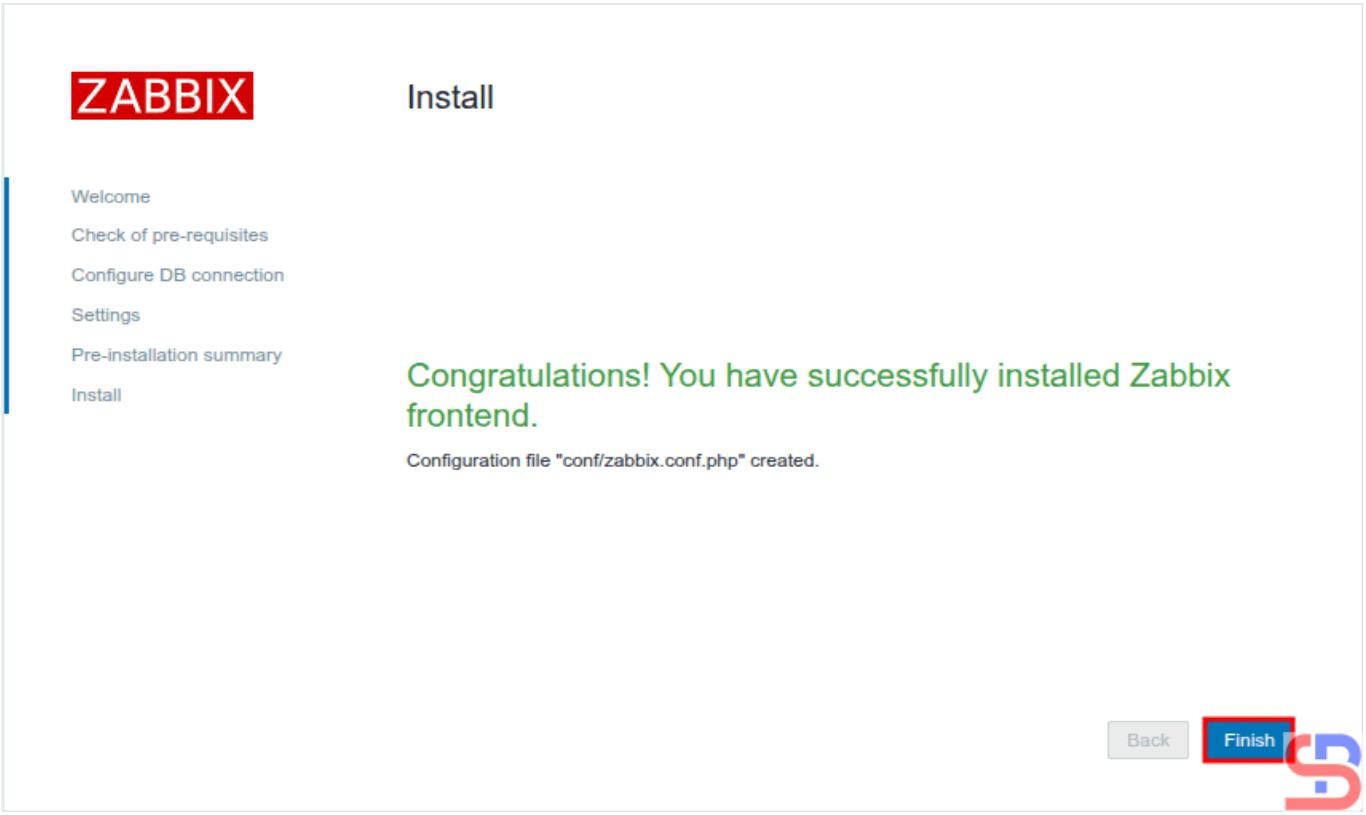
Enter the server name of Zabbix

Enter the name of the Zabbix server you want, click the **Next step** button, and there will be a display like the image below:



Pre-installation summary

Click the **Next step** button, and there will be a display similar to the image shown below.

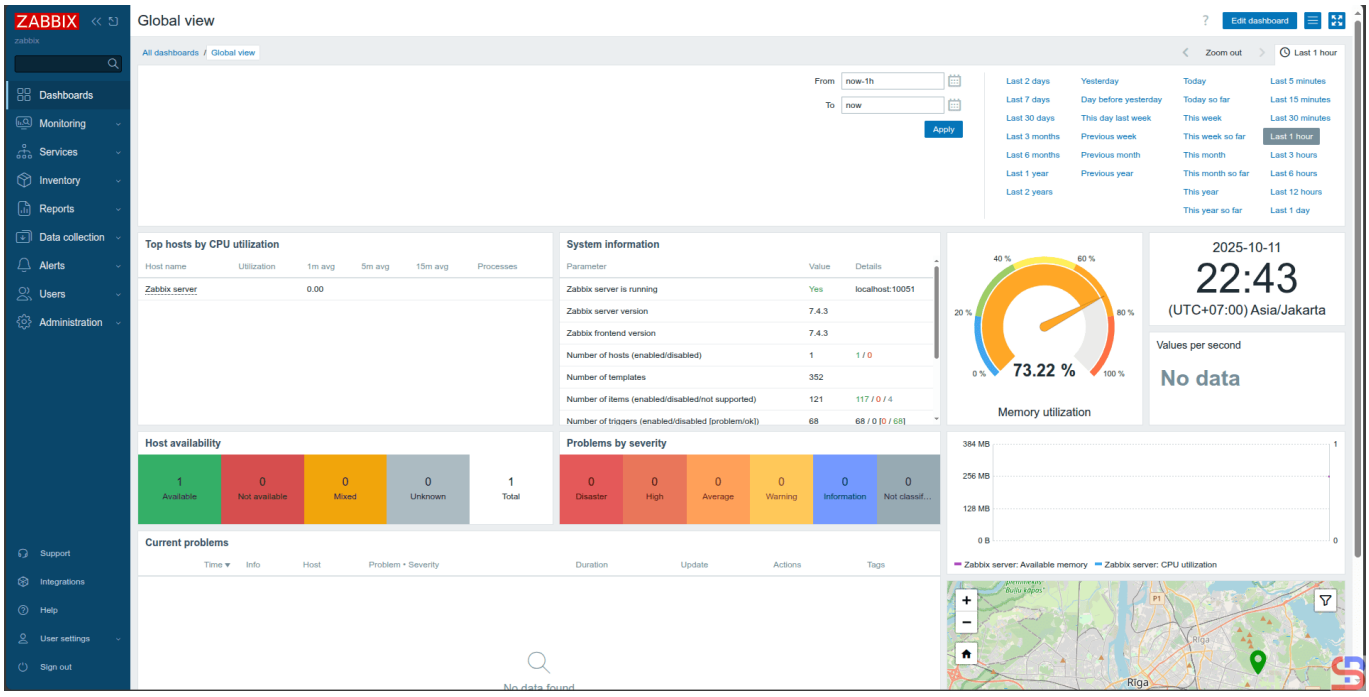


Finish installation

Click the **Finish** button, and a screen like the one shown below will appear.

Enter the username and password of Zabbix

For your information, the initial username for Zabbix is **Admin** and the initial password is **zabbix**. After you enter the username and password, click the Sign in button, and there will be a display like the image below:



The initial display of Zabbix

You have successfully installed the Zabbix application on

your Ubuntu server.

Note

To install Zabbix on a different operating system, you can go to this page to see how to install Zabbix on your server.

References

en.wikipedia.org
zabbix.com
medium.com