

# Quick Start Guide Zabbix Installation GUDE devices



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## Introduction

Dear Customer,

Our quality products enable the optimization and expansion of professionally operated IT and AV infrastructures. Especially when it comes to industry-typical questions, our reliable IP power solutions support the demanding user in 3 central challenges:

1. How can I increase the energy efficiency in my IT rack?
2. How can I increase the reliability of my business-critical infrastructure?
3. How can I gain control over the status of my server environment?

In this context, the **Zabbix Software** offers the possibility to monitor and manage our products via one central application. A clearly arranged graphical user interface supports you in keeping track of your network devices. This way, you always have an overview of all relevant key figures of your server or rack environment.

Using our **Expert Power Control 1202-1** – an IP-switchable & manageable Power Distribution Unit (PDU)– as an example, this manual shows you how to continuously monitor your IT installations and power consumption with the Zabbix software in just a few steps.

If you have any questions about our products, please do not hesitate to contact our service staff: [support@gude-systems.com](mailto:support@gude-systems.com).

Your GUDE Team



Good. Great. GUDE.

## Preface

Find out how to download and install Zabbix on their website: <https://www.zabbix.com/manuals> and <https://www.zabbix.com/download>

## Before you start

Before adding a GUDE device to Zabbix, please make sure that *SNMP get*, *SNMP set* and your preferred version of SNMP is enabled.

Note: For SNMPv2 the *public Community* is by default “public” and “private” for the *private Community*. Both can be changed in the device’s webinterface.

Control Panel **Configuration** Maintenance Logout

Power Ports · Ethernet · **Protocols** · Clock · Sensors · E-Mail · Front Panel  
Console · Syslog · **SNMP** · Radius · Modbus · MQTT

**SNMP**

Enable SNMP options:  SNMP get  SNMP set

SNMP UDP port:

sysContact:

sysName:

sysLocation:

**SNMP v2**

Enable SNMP v2:  yes  no

SNMP v2 public Community:  (16 char. max)

SNMP v2 private Community:  (16 char. max)

**SNMP v3**

Enable SNMP v3:  yes  no

**SNMP Traps**

Send SNMP Traps:  ▼

Apply

[MIB table](#)



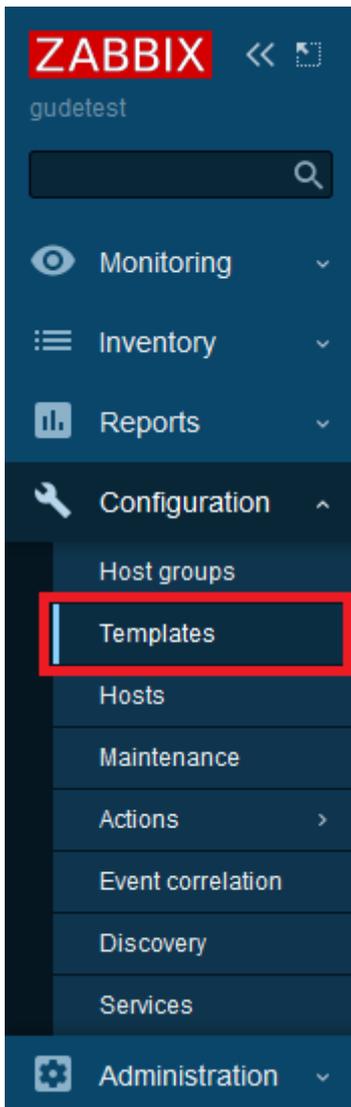
Expert Power Control 1202-1 - v1.9.0

## Import templates to Zabbix

Templates for our GUDE devices can be requested via e-mail: [support@gude-systems.com](mailto:support@gude-systems.com).

Our device templates for Zabbix cover all sensors that can be monitored with our devices via webinterface. They are used to make the integration of your GUDE devices into Zabbix as easy as possible.

**Step 1:** Go to *Templates* in the menu bar under *Configuration*.

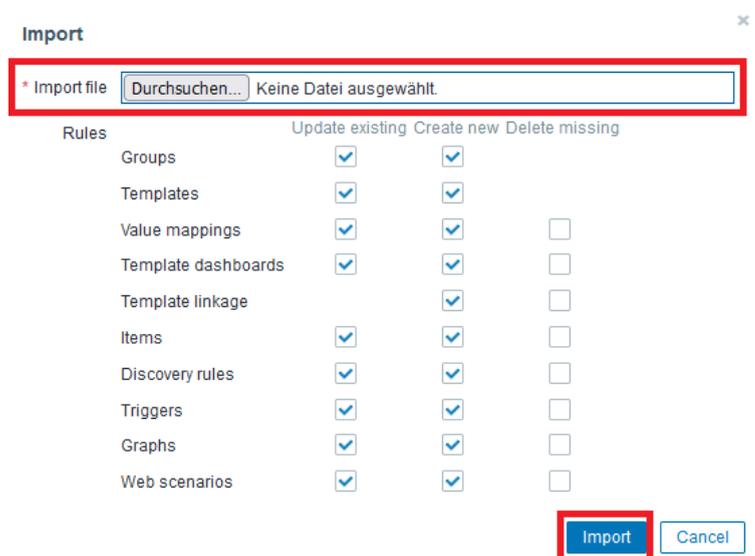


**Note:** Our templates are using SNMP for sensor monitoring and can be used for an easy integration into Zabbix without you having to add every individual OID by yourself. The sensors in the template can be changed individually to your liking after importing the template to Zabbix.

**Step 2:** Import the template by clicking on *Import*. A new window will appear.



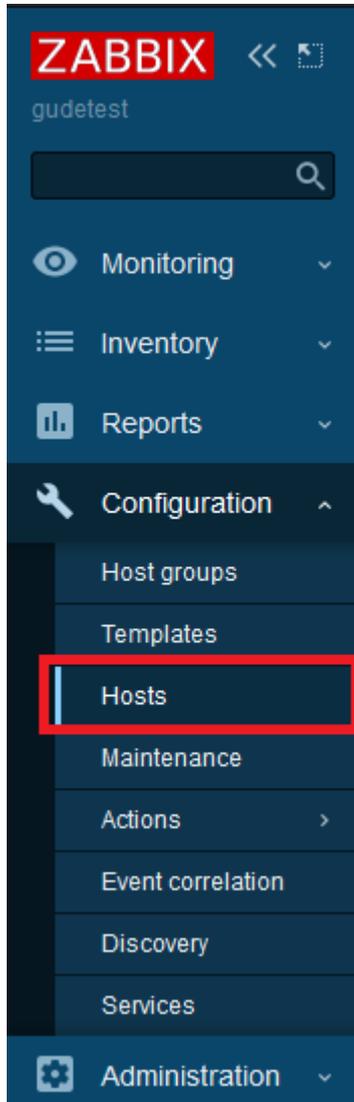
**In the new window:** Go to the folder where you have saved the template file, choose the template file and then click on *Import*.



## Adding a GUDE device into Zabbix

After importing a template into Zabbix you can now create a device (host) using that template. A host is the specific GUDE device you use and plan to monitor with Zabbix.

**Step 1:** Go to *Hosts* in the menu bar under *Configuration*.



**Note:** Integrating your GUDE device into Zabbix will give you an organized overview of the data you want to collect. In this case, adding our **Expert Power Control 1202-1** to **Zabbix** provides you with data such as: metering of power consumption, environment data (e.g., temperature & humidity) and port status.

**Step 2:** Click on *Create host* to create a device.  
A new window will appear after clicking on *Create host*.

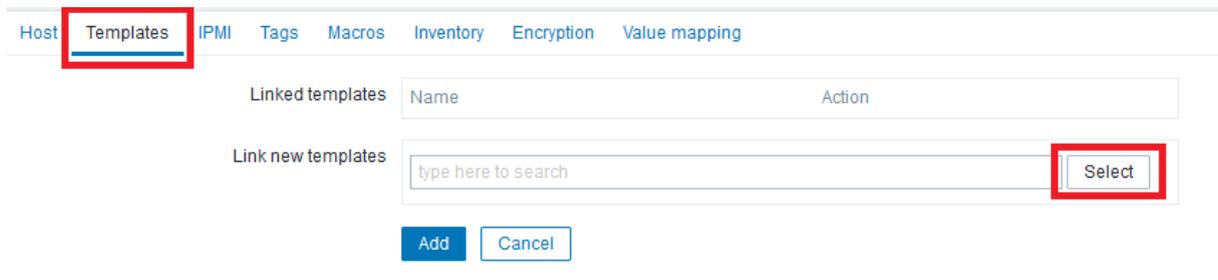


**Step 3:** Fill out the required fields *Host name* and *Groups* in the window. The *host name* and *group* can be defined by yourself. In this example we integrate our **Expert Power Control 1202-1**, a 4 port IP-switchable PDU, into **Zabbix**. Since our device template use SNMP, the *Interface* for the host will be SNMP as well.

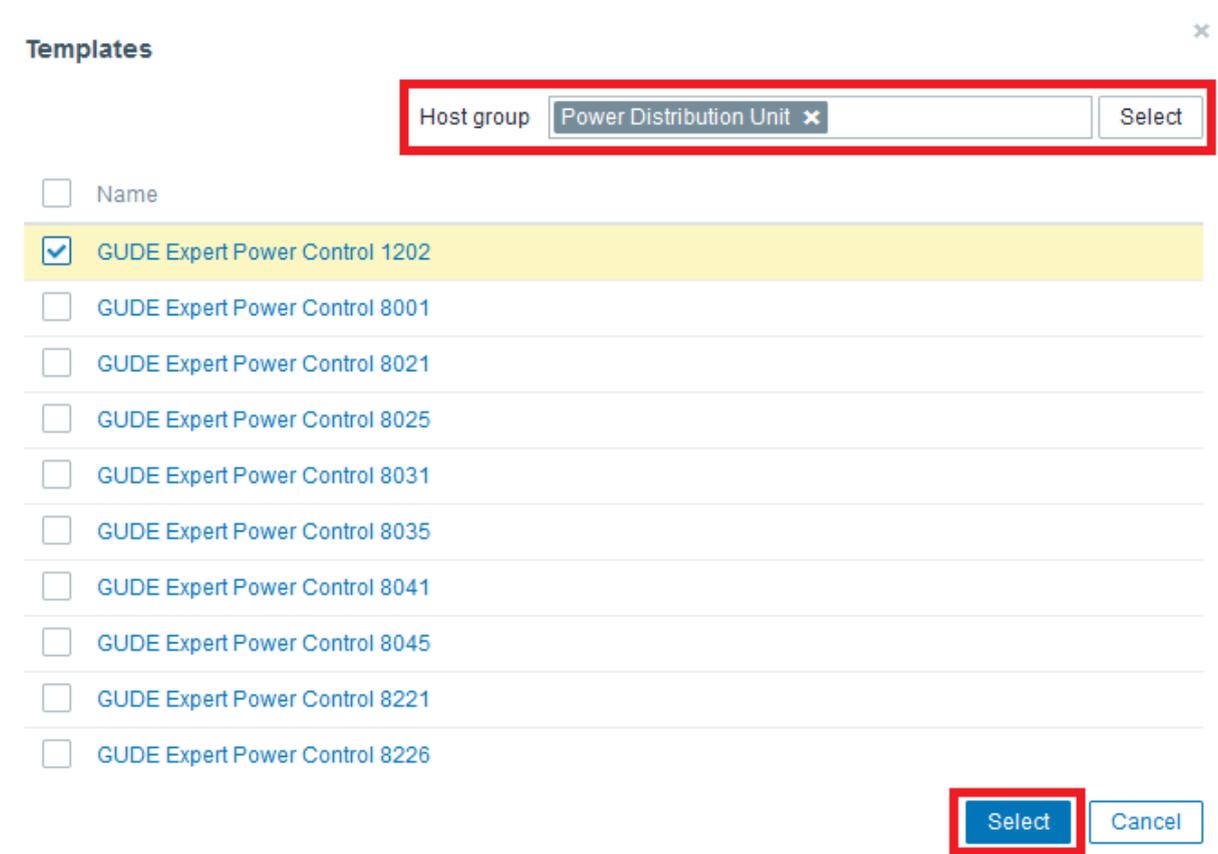
**Step 4:** Fill out the new fields that have appeared after choosing the *Interface* “SNMP”. *IP address* must be the IP address of your GUDE device. *SNMP version* is the version you wish to use. In this case we will go with SNMPv2. *SNMP community* is the public community you have set up in the webinterface of your GUDE device.

**Note:** If you have not changed the communities in the webinterface of your GUDE device, then *public community* is by default “public” and *private community* is by default “private”.

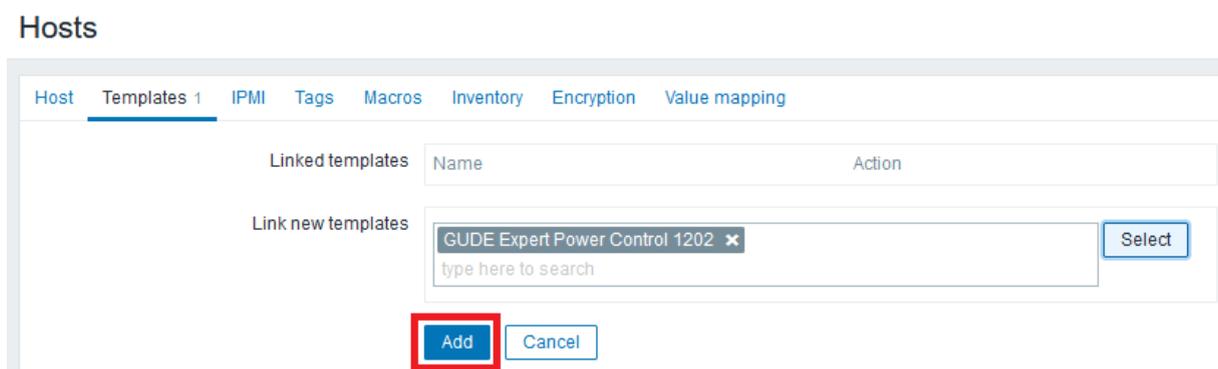
**Step 5:** After completing the fields for the GUDE device, you can choose the template you have imported previously into Zabbix. Click on *Templates* and then on *Select*.



The *Host group* for our PDU templates is “Power Distribution Unit” and “Template/PDU”. Choose the appropriate device series if you have more than one GUDE template imported into Zabbix and then click *Select*. For this guide we will go with “GUDE Expert Power Control 1202”.



**Step 6:** Add the device by clicking *Add*.



**Congratulations:** Your GUDE device shows up on the *Host overview* after adding a host to Zabbix.

Hosts [Create host](#) [Import](#)

Filter

Host groups  [Select](#)    Monitored by [Any](#) [Server](#) [Proxy](#)

Templates  [Select](#)    Proxy  [Select](#)

Name

DNS

IP

Port

Tags [And/Or](#) [Or](#)

Tag  Contains  [Remove](#)

[Add](#)

[Apply](#) [Reset](#)

<input type="checkbox"/>	Name	Items	Triggers	Graphs	Discovery	Web	Interface	Proxy	Templates	Status	Availability	Agent encryption	Info	Tags
<input type="checkbox"/>	Expert Power Control 1202	Items 13	Triggers	Graphs	Discovery	Web	192.168.200.115:161		GUDE Expert Power Control 1202	Enabled	<span style="color: green;">OK</span>	<span style="color: green;">None</span>		
<input type="checkbox"/>	Zabbix server	Items 120	Triggers 64	Graphs 24	Discovery 3	Web	127.0.0.1:10050		Linux by Zabbix agent (Linux block devices by Zabbix agent, Linux CPU by Zabbix agent, Linux filesystems by Zabbix agent, Linux generic by Zabbix agent, Linux memory by Zabbix agent, Linux network interfaces by Zabbix agent, Zabbix agent), Zabbix server health	Enabled	<span style="color: green;">OK</span>	<span style="color: green;">None</span>		

Displaying 2 of 2 found



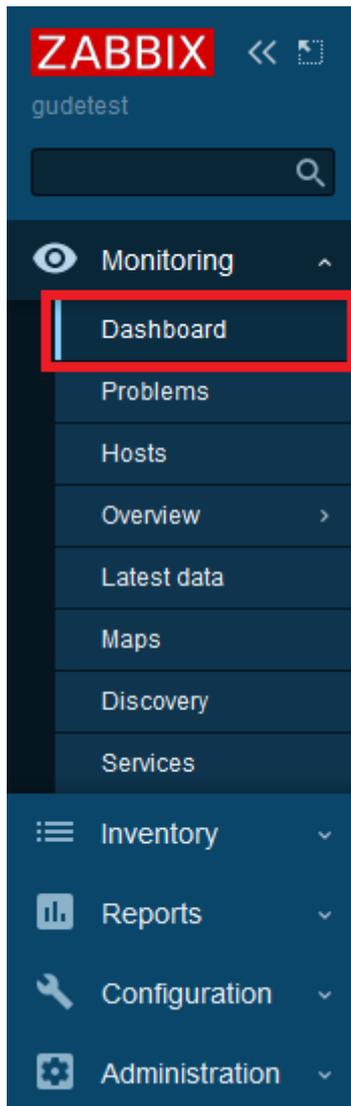
<input type="checkbox"/>	Name	Items	Triggers	Graphs	Discovery	Web	Interface	Proxy	Templates
<input type="checkbox"/>	Expert Power Control 1202	Items 13	Triggers	Graphs	Discovery	Web	192.168.200.115:161		GUDE Expert Power Control 1202

# Configuring the dashboard in Zabbix

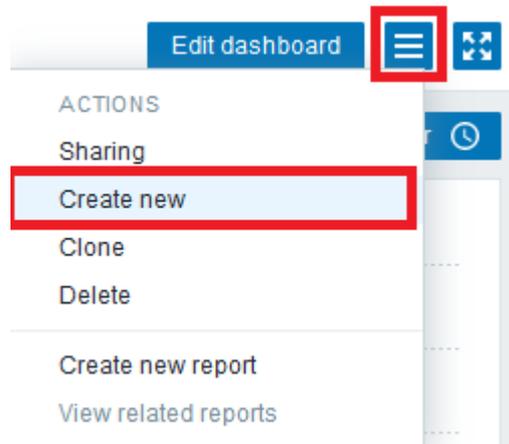
Your *Dashboard* in Zabbix can be configured in many ways, so you are provided only with the information you need for your specific installation. In this guide we will configure the dashboard to display *total energy (kWh)*, *current (A)*, *temperature (°C)* and *humidity (%)*.



**Step 1:** Go to *Dashboard* in the menu bar under *Monitoring*.



**Step 2:** Select *Create new* in the small dropdown menu on the top right corner.



**Step 3:** Fill out the *Dashboard properties* according to your needs.

A screenshot of the 'Dashboard properties' dialog box. The dialog has a title bar with a close button. It contains several fields: '\* Owner' with a dropdown menu showing 'Admin (Zabbix Administrator)' and a 'Select' button; '\* Name' with a text input field containing 'GUDE'; 'Default page display period' with a dropdown menu showing '10 seconds'; and a checked checkbox for 'Start slideshow automatically'. At the bottom right, there are 'Apply' and 'Cancel' buttons. Red boxes highlight the Owner field, the Name field, the Default page display period dropdown, and the Apply button.

**Step 4:** Once the dashboard has been created you can then add *Widgets*. In case you are not in *edit mode* after creating a dashboard, simply click on *Edit dashboard*.



**Step 5:** Since we want to monitor *total energy (kWh)*, *current (A)*, *temperature (°C)* and *humidity (%)* with our **Expert Power Control 1202**, the *widget-type* we are going to add is a *Graph*. *Name* and *Refresh interval* can be freely configured.

For *Data set* choose the previously added GUDE device (*host*) and the *sensor type* you want to monitor. Click *Apply* once you have finished the settings.

A screenshot of the 'Edit widget' configuration interface. At the top, a red box highlights the 'Type' dropdown set to 'Graph', the 'Name' text box containing 'GUDE Expert Power Control 1202: Temperature', and the 'Refresh interval' dropdown set to '10 seconds'. Below this is a line graph showing temperature fluctuations over time. Two red arrows point from the top of the graph area down to the configuration options below. The configuration options include: 'Data set 1' with a dropdown for 'Expert Power Control 1202' and a 'Select' button; 'Sensor: Temperature' with a dropdown for 'item pattern' and a 'Select' button; 'Base colour' set to '0080FF'; 'Draw' options for 'Line', 'Points', 'Staircase', and 'Bar'; 'Width' slider set to 1; 'Point size' slider set to 3; 'Transparency' slider set to 5; 'Fill' slider set to 3; 'Missing data' options for 'None', 'Connected', and 'Treat as 0'; 'Y-axis' set to 'Left'; 'Time shift' set to 'none'; 'Aggregation function' set to 'none'; 'Aggregation interval' set to '1h'; and 'Aggregate' options for 'Each item' and 'Data set'. At the bottom right, there are 'Apply' and 'Cancel' buttons, with 'Apply' highlighted by a red box.

**Note:** After adding all the sensors you want to monitor, your dashboard should look something like this:

- 1) total energy (kWh)   2) current (A)   3) temperature (°C)   4) humidity (%)



**Step 6 (optional):** Clicking on the *clock symbol* in the top right corner allows you to choose the *time frame* for Zabbix.

The screenshot shows the Zabbix time frame selection interface. It includes a 'From' field set to 'now-1h' and a 'To' field set to 'now', with an 'Apply' button below them. A grid of time frame options is displayed, with 'Last 1 hour' highlighted. A 'Last 1 hour' button with a clock icon is also visible in the top right corner.

From	now-1h			
To	now			
		Last 2 days	Yesterday	Today
		Last 7 days	Day before yesterday	Today so far
		Last 30 days	This day last week	This week
		Last 3 months	Previous week	This week so far
		Last 6 months	Previous month	This month
		Last 1 year	Previous year	This month so far
		Last 2 years		This year
				This year so far
				Last 5 minutes
				Last 15 minutes
				Last 30 minutes
				Last 1 hour
				Last 3 hours
				Last 6 hours
				Last 12 hours
				Last 1 day



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