

# 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 infrastructures. Especially when it comes to industry-typical questions, our reliable IT solutions support the demanding user in three 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 – 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: 161

sysContact: sysContact

sysName: sysName

sysLocation: sysLocation

**SNMP v2**

Enable SNMP v2: ☒ yes ☐ no

SNMP v2 public Community: public (16 char. max)

SNMP v2 private Community: private (16 char. max)

**SNMP v3**

Enable SNMP v3: ☐ yes ☒ no

**SNMP Traps**

Send SNMP Traps: disabled

Apply

[MIB table](#)



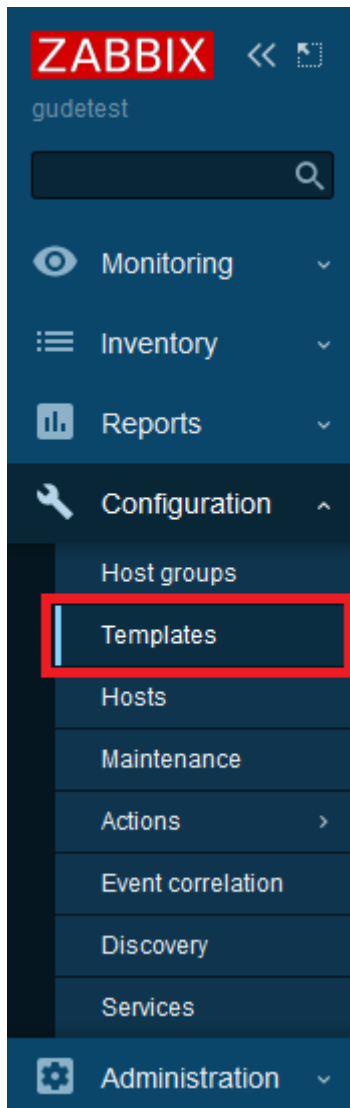
Expert Power Control 1202-1 - v1.9.0

## Importing Templates To Zabbix

Templates for our GUDE devices can be requested via e-mail [support@gude-systems.com](mailto:support@gude-systems.com) or found on our website <https://gude-systems.com/en/products/zabbix/#downloads>

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

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

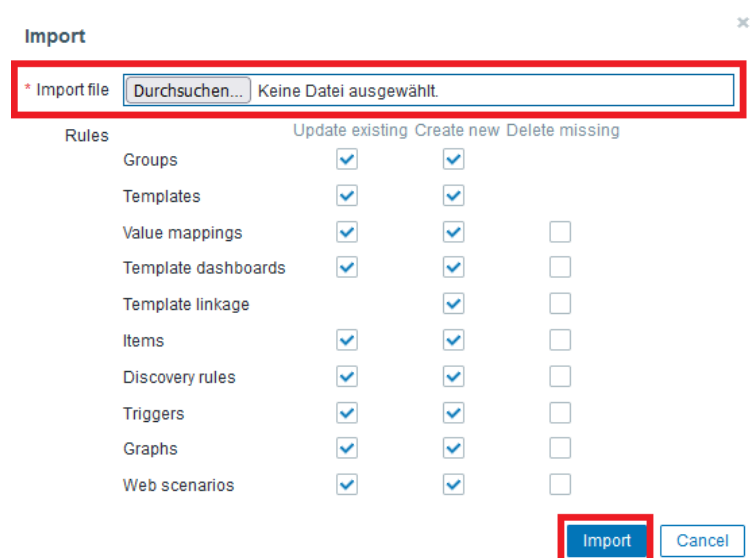


**Note:** Our templates are using SNMP for sensor monitoring and can be used for an easy integration into Zabbix without you having to add every individual OID by yourself. The items (sensors) in the template can be changed individually to your liking after importing the template to Zabbix.

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



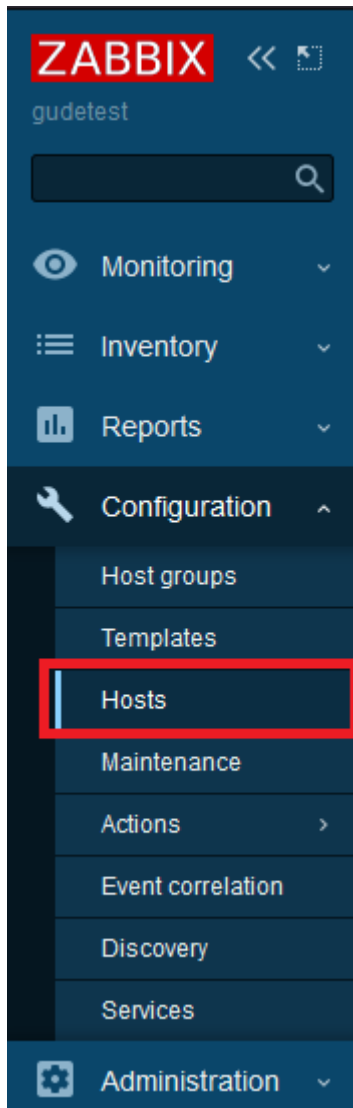
**In the new window:** Go to the folder where you've saved the template file and then click on *Import*.



## Adding A Host (GUDE Device) Into Zabbix

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

**Step 1:** Go to the *Hosts* tab 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, can display 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 host.  
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're integrating our Expert Power Control 1202-1, a 4 port IP-switchable PDU, into Zabbix. Since our device template is using SNMP the *Interface* for the host will be SNMP as well.

Host Templates IPMI Tags Macros Inventory Encryption Value mapping

\* Host name Expert Power Control 1202

Visible name Expert Power Control 1202

\* Groups Power Distribution Unit × Select

Interfaces No interfaces are defined. Add

Description Agent  
SNMP  
JMX  
IPMI

Monitored by proxy (no proxy) ▼

Enabled ☒

Add Cancel

**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 haven't changed the communities in the webinterface of your GUDE device then *public community* is by default "public" and *private community* is by default "private".

Hosts

Host Templates IPMI Tags Macros Inventory Encryption Value mapping

\* Host name Expert Power Control 1202

Visible name Expert Power Control 1202

\* Groups Power Distribution Unit × Select

Interfaces

Type	IP address	DNS name	Connect to	Port	Default
SNMP	192.168.200.115		IP	DNS 161	<span>Remove</span>

\* SNMP version SNMPv2 ▼

\* SNMP community public

☒ Use bulk requests

Add

Description

Monitored by proxy (no proxy) ▼

Enabled ☒

Add Cancel

**Step 5:** After filling out all the information for the host you can then choose the template you have imported previously to Zabbix. Click on *Templates* and then *Select*.

The screenshot shows the 'Host' configuration page with the 'Templates' tab selected. A red box highlights the 'Templates' tab in the top navigation bar. Below the navigation bar, there is a 'Linked templates' section with a table header 'Name' and 'Action'. Underneath, the 'Link new templates' section contains a search input field with the placeholder text 'type here to search' and a 'Select' button highlighted with a red box. At the bottom of this section are 'Add' and 'Cancel' buttons.

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”.

The screenshot shows a 'Templates' dialog box. At the top, the 'Host group' is set to 'Power Distribution Unit' with a 'Select' button next to it, both highlighted with a red box. Below this, there is a list of templates with checkboxes. The first template, 'GUDE Expert Power Control 1202', is selected and highlighted in yellow. Other templates include 'GUDE Expert Power Control 8001', 'GUDE Expert Power Control 8021', 'GUDE Expert Power Control 8025', 'GUDE Expert Power Control 8031', 'GUDE Expert Power Control 8035', 'GUDE Expert Power Control 8041', 'GUDE Expert Power Control 8045', 'GUDE Expert Power Control 8221', and 'GUDE Expert Power Control 8226'. At the bottom right, there are 'Select' and 'Cancel' buttons, with the 'Select' button highlighted by a red box.

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

The screenshot shows the 'Hosts' configuration page. The 'Host' tab is selected in the top navigation bar. Below the navigation bar, there is a 'Linked templates' section with a table header 'Name' and 'Action'. Underneath, the 'Link new templates' section contains a search input field with the placeholder text 'type here to search' and a 'Select' button. The search field contains the text 'GUDE Expert Power Control 1202'. At the bottom of this section are 'Add' and 'Cancel' buttons, with the 'Add' button highlighted by a red box.



**Final:** Your GUDE device should show up on the *Host overview* after adding a host to Zabbix.

Hosts Create host Import

Filter

Host groups  Select

Templates  Select

Name

DNS

IP

Port

Monitored by Any Server Proxy

Proxy  Select

Tags And/Or Or


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	OK	None		
<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	OK	None		

Displaying 2 of 2 found



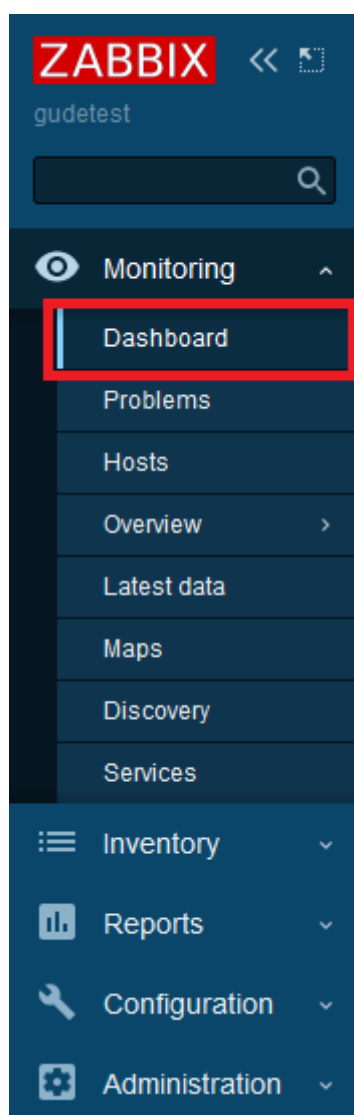
<input type="checkbox"/>	Name	Items	Triggers	Graphs	Discovery	Web	Interface	Proxy	Templates
<input type="checkbox"/>	Expert Power Control 1202	Items 13	Triggers	Graphs	Discovery	Web	192.168.200.115:161		GUDE Expert Power Control 1202

## Configuring The Dashboard In Zabbix

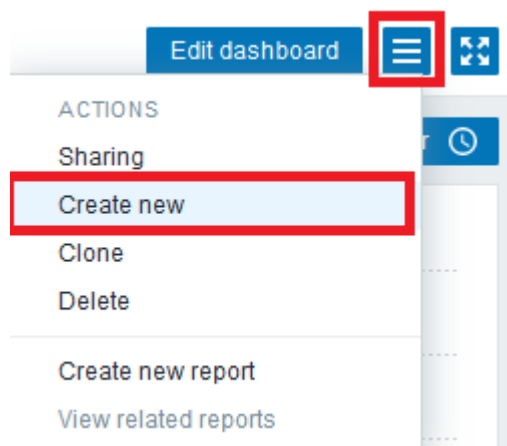
Your *Dashboard* in Zabbix can be configured in many ways to have the tool display only the information you need for your specific installation. In this guide we will configure the dashboard to display *total energy (kWh)*, *current (A)*, *temperature (°C)* and *humidity (%)*.



**Step 1:** Go to *Dashboard* tab 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. The fields are: Owner (Admin (Zabbix Administrator) with a Select button), Name (GUDE), Default page display period (10 seconds with a dropdown arrow), and Start slideshow automatically (checked). The Apply and Cancel buttons are at the bottom right. Red rectangles highlight the Owner and Name fields, the Default page display period field, and the Apply button.

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



**Step 5:** Since we're planning to monitor *total energy (kWh)*, *current (A)*, *temperature (°C)* and *humidity (%)* with our Expert Power Control 1202 the *widget-type* we're 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're finished with the settings.

A screenshot of the 'Edit widget' configuration window. At the top, a red box highlights the 'Type' dropdown set to 'Graph', the 'Name' field containing 'GUDE Expert Power Control 1202: Temperature', and the 'Refresh interval' dropdown set to '10 seconds'. Below this is a line graph showing temperature data over time, with the y-axis ranging from 27.1 °C to 27.6 °C and the x-axis showing timestamps from 8-17 13:16 to 8-17 14:12. Two red arrows point from the top of the graph area down to the 'Data set' and 'Sensor' selection fields in the configuration panel below. The configuration panel has tabs for 'Data set 1', 'Displaying options', 'Time period', 'Axes', 'Legend', 'Problems', and 'Overrides'. The 'Data set' tab is active, showing a red box around the 'Data set' dropdown (set to 'Expert Power Control 1202') and the 'Sensor' dropdown (set to 'Sensor: Temperature'). Below these are various styling options like 'Base colour', 'Draw' (Line, Points, Staircase, Bar), 'Width', 'Point size', 'Transparency', 'Fill', 'Missing data', 'Y-axis', 'Time shift', 'Aggregation function', 'Aggregation interval', and 'Aggregate'. At the bottom right, the 'Apply' button is highlighted with a red box.

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

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* you want Zabbix to display.

The screenshot shows the time frame selection menu in the Zabbix GUI. The menu is open, displaying various time ranges. The 'Last 1 hour' option is highlighted with a red box. The menu also includes a 'Zoom out' button and a clock icon.

From:  To:

Last 2 days	Yesterday	Today	Last 5 minutes
Last 7 days	Day before yesterday	Today so far	Last 15 minutes
Last 30 days	This day last week	This week	Last 30 minutes
Last 3 months	Previous week	This week so far	<b>Last 1 hour</b>
Last 6 months	Previous month	This month	Last 3 hours
Last 1 year	Previous year	This month so far	Last 6 hours
Last 2 years		This year	Last 12 hours
		This year so far	Last 1 day



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