

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.

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](#)



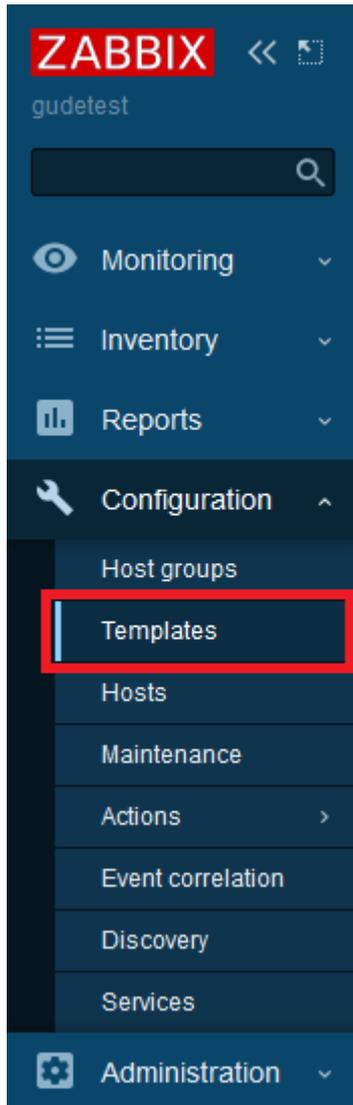
Expert Power Control 1202-1 - v1.9.0

Importing Templates To Zabbix

Templates for our GUDE devices can be requested via e-mail 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*.

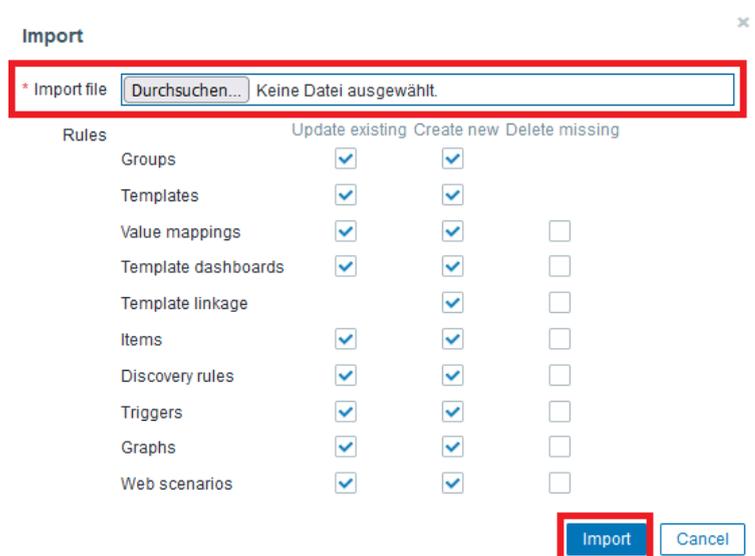


Note: Our templates are using SNMP for sensor monitoring and can be used for an easy integration into Zabbix without you having to add every individual OID by yourself. The items (sensors) in the template can be changed individually to your liking after importing the template to Zabbix.

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



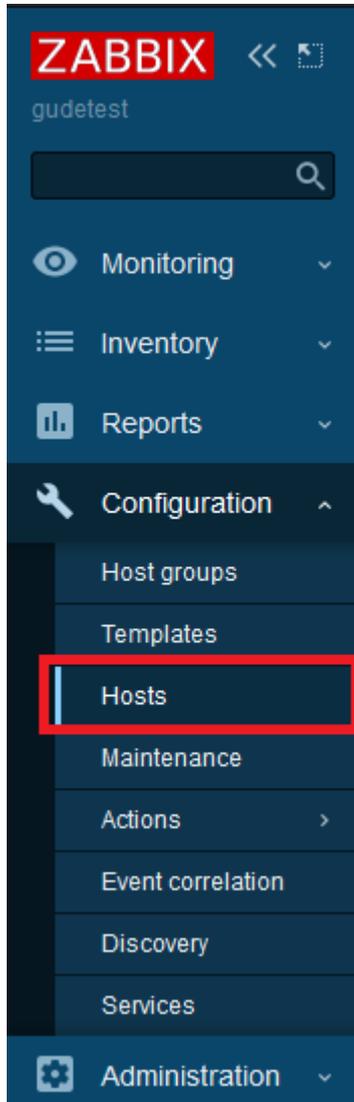
In the new window: Go to the folder where you've saved the template file and then click on *Import*.



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*.

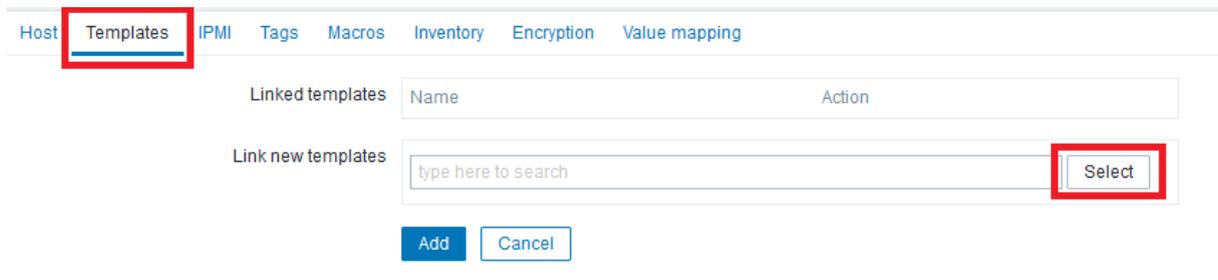


Step 3: Fill out the required fields *Host name* and *Groups* in the window. The *host name* and *group* can be defined by yourself. In this example we're integrating our Expert Power Control 1202-1, a 4 port IP-switchable PDU, into Zabbix. Since our device template is using SNMP the *Interface* for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

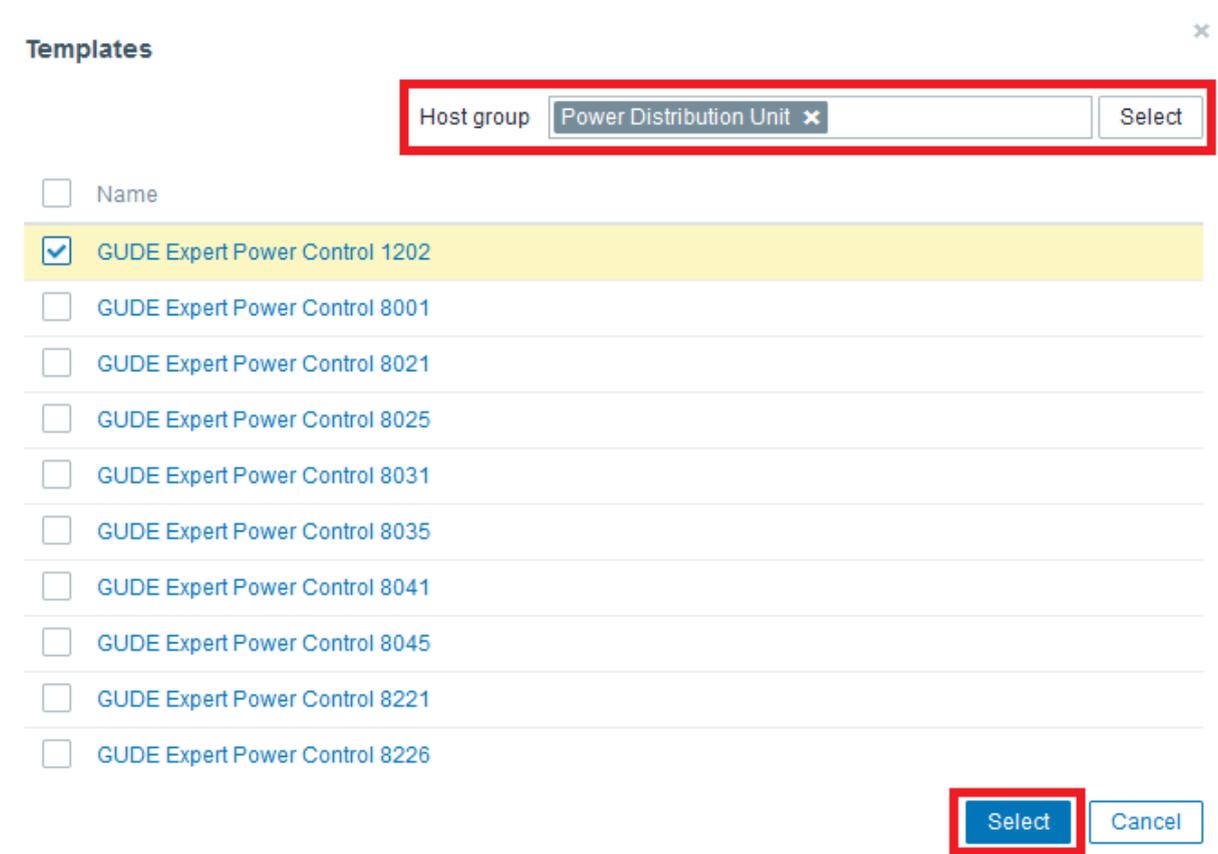
Step 4: Fill out the new fields that have appeared after choosing the *Interface* SNMP. *IP address* must be the IP address of your GUDE device. *SNMP version* is the version you wish to use. In this case we will go with SNMPv2. *SNMP community* is the public community you have set up in the webinterface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

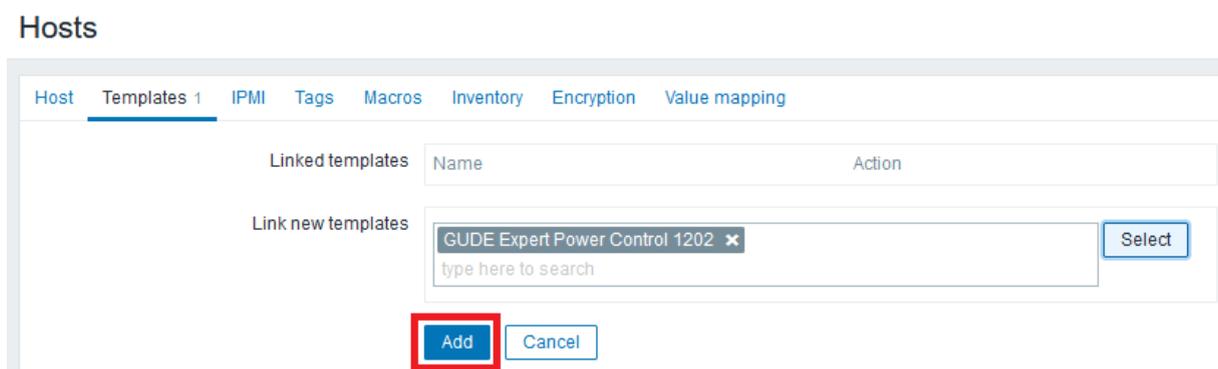
Step 5: After filling out all the information for the host you can then choose the template you have imported previously to Zabbix. Click on *Templates* and then *Select*.



The *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 host by clicking *Add*.



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

Monitored by: Any Server Proxy

Templates: Select

Name:

DNS:

IP:

Port:

Proxy: Select

Tags: And/Or Or

Tag: Contains value Remove

Add

Apply Reset

Name	Items	Triggers	Graphs	Discovery	Web	Interface	Proxy	Templates	Status	Availability	Agent encryption	Info	Tags
Expert Power Control 1202	Items 13	Triggers	Graphs	Discovery	Web	192.168.200.115:161		GUDE Expert Power Control 1202	Enabled	OK	None		
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	ZBX	None		

Displaying 2 of 2 found



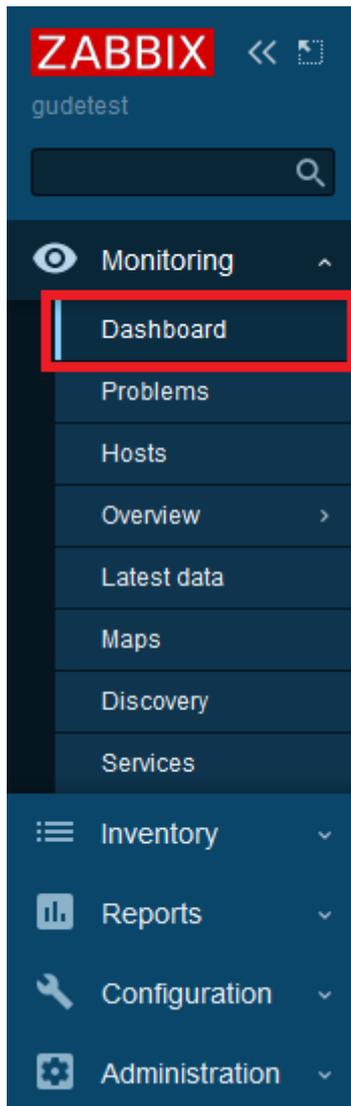
Name	Items	Triggers	Graphs	Discovery	Web	Interface	Proxy	Templates
Expert Power Control 1202	Items 13	Triggers	Graphs	Discovery	Web	192.168.200.115:161		GUDE Expert Power Control 1202

Configuring The Dashboard In Zabbix

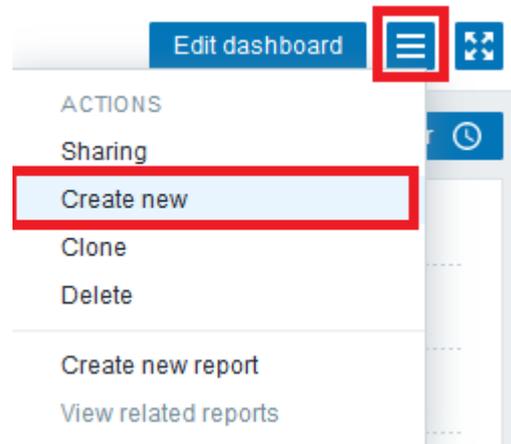
Your *Dashboard* in Zabbix can be configured in many ways to have the tool display only the information you need for your specific installation. In this guide we will configure the dashboard to display *total energy (kWh)*, *current (A)*, *temperature (°C)* and *humidity (%)*.



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. 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 checkbox for 'Start slideshow automatically' which is checked. At the bottom right, there are 'Apply' and 'Cancel' buttons. Red boxes highlight the Owner and Name fields, the display period dropdown, 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 interface. At the top, a red box highlights the 'Type' dropdown set to 'Graph', the 'Name' text 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. Two red arrows point from the top of the graph area down to the configuration options below. The configuration options are organized into tabs: 'Data set 1', 'Displaying options', 'Time period', 'Axes', 'Legend', 'Problems', and 'Overrides'. The 'Data set 1' tab is active and contains two red-bordered boxes. The first box highlights the 'Data set' dropdown set to 'Expert Power Control 1202' and the 'Sensor' dropdown set to 'Sensor: Temperature'. The second box highlights the 'Base colour' dropdown set to '0080FF'. Below these are various styling options like 'Draw' (Line, Points, Staircase, Bar), 'Width', 'Point size', 'Transparency', and 'Fill'. On the right side, there are options for 'Missing data', 'Y-axis', 'Time shift', 'Aggregation function', 'Aggregation interval', and 'Aggregate'. At the bottom right, there are 'Apply' and 'Cancel' buttons, with the 'Apply' button highlighted by 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 selection interface in Zabbix. On the left, there are input fields for 'From' (now-1h) and 'To' (now), with an 'Apply' button. On the right, there is a grid of time range options:

From	now-1h				
To	now				
		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	Last 1 hour
		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

The 'Last 1 hour' option is highlighted with a red box in the original image.



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