SERVERSCHECK

Quick Installation Guide
For Sensors with Zabbix

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Document Overview

This document outlines the integration with the ServersCheck PoE & SNMP sensors with the open source and free Zabbix software. This document assumes that a sensor was configured on the network as per user manual instructions.
The manual can be downloaded from www.serverscheck.com/sensors/manual.asp.
This document also assumes that Zabbix has been installed on a system and the user is knowledgeable with the SNMP technology. For more information on Zabbix, please visit http://www.zabbix.com/

For this guide our gateway's SNMP settings is as shown below
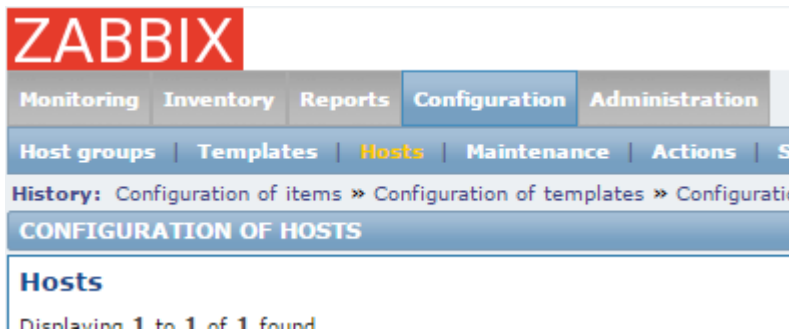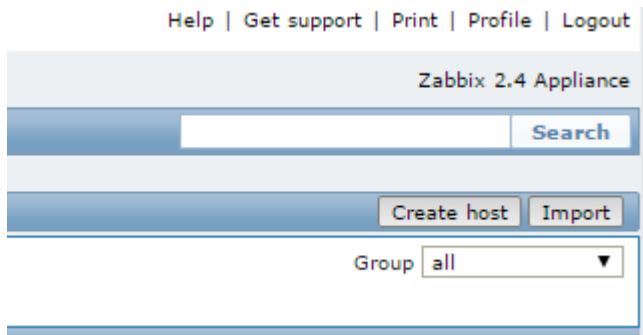
Guide to add a ServersCheck device.

1. To add a ServersCheck gateway to your software, first you have to add a host. On your zabbix dashboard click on the configuration tab and then click on Hosts

2. Then Click on Create Host located on the far right just below the search bar.
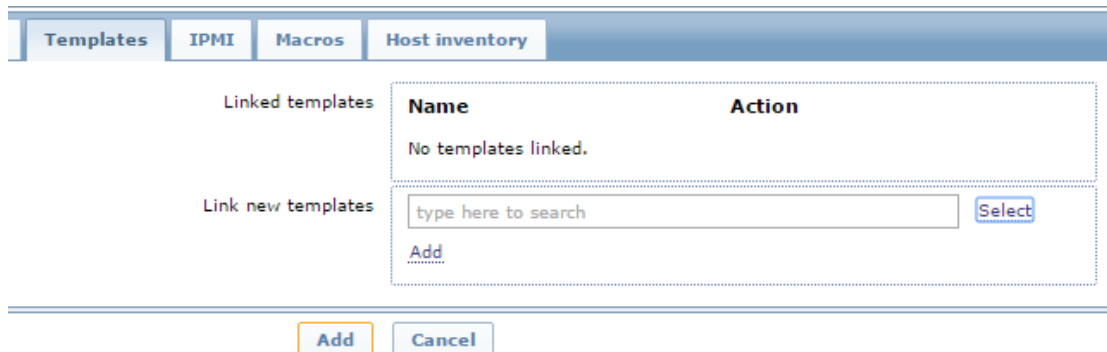
3. Fill up the form with your desired name and since we don't have the gateway on one of your groups yet feel free to create a new group for the gateways.

Host name	SensorGateway1
Visible name	SensorGateway1

Groups In groups

Other groups
Discovered hosts
Gateway
Hypervisors
Lendl
Linux servers
Templates
Virtual machines
Zabbix servers

New group
SensorGateways

gent interfaces	IP address	DNS name	Connect to	Port	Default	
⇕	127.0.0.1		IP DNS	10050	◉	Remove
	Add					

NMP interfaces   Add

JMX interfaces   Add

IPMI interfaces   Add

Description

Remove the IP Agent interface as it has a value by default and instead add an SNMP interface by placing the IP address of the gateway and the port you have set on your gateway (reference to SNMP settings port used)

Agent interfaces	IP address	DNS name	Connect to	Port	Default	
	Add					
SNMP interfaces	⇕ 192.168.9.15		IP DNS	161	◉	Remove
	✔ Use bulk requests					
	Add					

4. Click on the macros tab and type in {$SNMP_COMMUNITY} under macro and then the value of your community string for "read" access.

Host	Templates	IPMI	Macros	Host inventory

Macro		Value	
{$SNMP_COMMUNITY}	→	public	Remove
Add			

5. Now don't click on add yet as we have to go to the templates tab

Click on Select, A number of options would appear, look SNMP Generic and click on the add button below the "select button", it should appear like the image below.
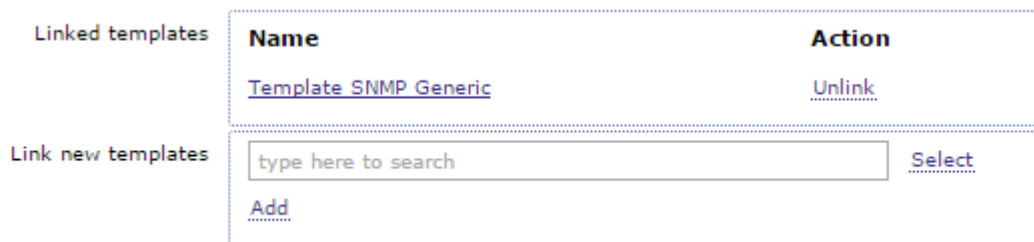
Once done we can finally click on the add button farthest down.

Note: in zabbix you can customize templates and add various checks on a single template but for this guide we will use the basic and available one.

6. You should be back on the host page where you can now see your device. The next step is to add the values of the sensor/sensors attached on your gateway so that it would be shown on zabbix. To do that we need to click on the items button as shown below.
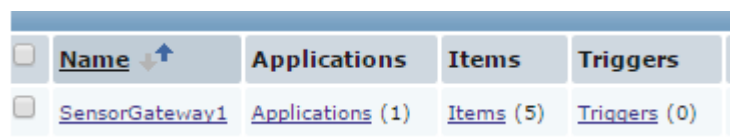
7. On the upper right corner click on Create item , on the next page is a sample form where we integrated the value for the internal temperature reading.

Name	Internal Temp
Type	SNMPv2 agent ▼
Key	public [Select]
Host interface	192.168.9.15 : 161 ▼
SNMP OID	.1.3.6.1.4.1.17095.3.2.0
SNMP community	public
Port	161
Type of information	Numeric (float) ▼
Units	c
custom multiplier	☐ 1
interval (in sec)	5

Flexible intervals

Interval	Period	Action
No flexible intervals defined.		

flexible interval	Interval (in sec) 50 Period 1-7,00:00-24:00 [Add]
period (in days)	90
period (in days)	365
Store value	As is ▼
Show value	As is ▼ show value mappings
New application	

Feel free to use the version of SNMP you have configured the gateway, As for this guide we used SNMP v2 agent with as reference to the gateway configuration shown on the 1st page of this guide.

Note: The SNMP OID .1.3.6.1.4.1.17095.3.2.0 is the value for the internal temperature reading and to know the OID of specific values you need an MIB browser to explore the gateway. An example of that is the iReasoning software. (for more information see link http://www.ireasoning.com/mibbrowser.shtml)
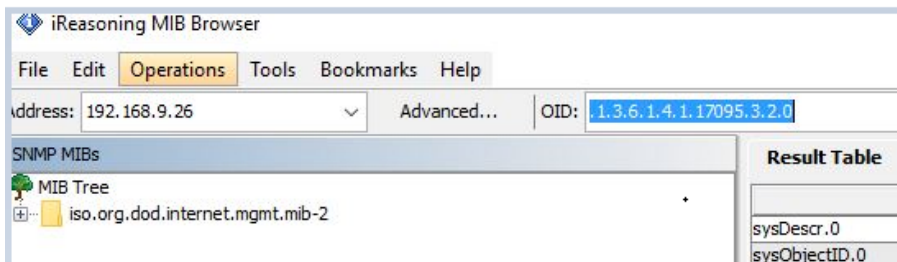
To scan the OID's we have to perform an SNMP Walk

(if your software requires an MIB file you can download it from our site)
https://serverscheck.com/support/downloads.asp

8. Once you have placed a similar configuration as shown above click on update/save

9. After saving wait for 2-3 minutes depending on the interval you have placed. As shown above we placed the interval at 5 seconds. Then click on to the monitoring tab and then Click on to "Latest Data" you should be on the page as shown on the image below
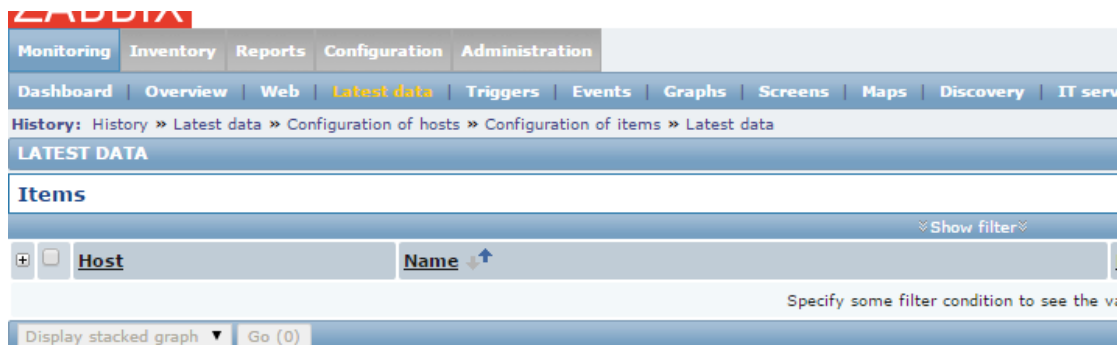
10. **Click on show filter.** Then click on one of the filters so that it can show the latest data of your units as for the guide we simply click on host and then select our gateway. Then click on the   button.   **Filter**
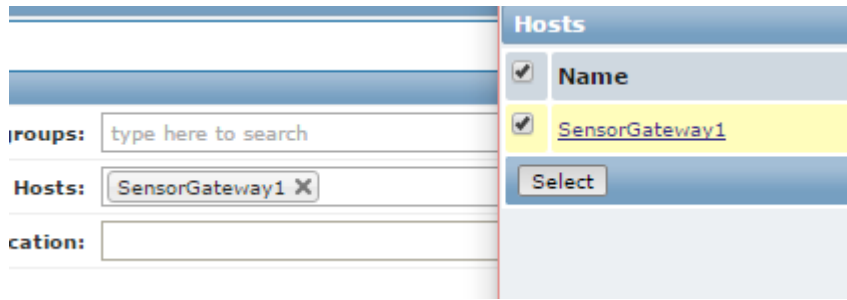
11. It should now show the data zabbix has received from our units
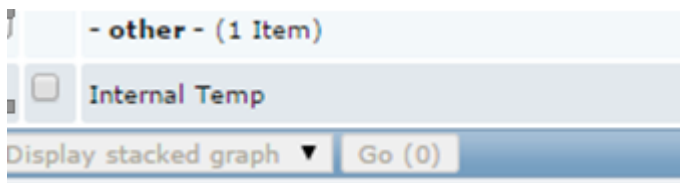
| 2016-03-22 19:43:40 | 29.98 c | - | Graph |

12. By clicking on the "Graph Button" it would show you the graphical data of the values that has been received by zabbix over our gateways and on the graph page you can also click on the dropdown menu option on the upper right and choose "500 latest values" to see the the history of data gathered.

Timestamp	Value
2016-03-22 19:46:35	30.04
2016-03-22 19:46:30	30.04
2016-03-22 19:46:25	29.99
2016-03-22 19:46:20	29.99
2016-03-22 19:46:15	29.99
2016-03-22 19:46:10	29.99
2016-03-22 19:46:05	29.99
2016-03-22 19:46:00	29.99
2016-03-22 19:45:55	30.05
2016-03-22 19:45:50	30.05
2016-03-22 19:45:45	30.11
2016-03-22 19:45:40	30.11

This is the end of the guide as you can now add specific OID's of the specific values that you need to monitor on your Zabbix Software. And customise to your needs.