Applications for Web-Thermographs:

Display measurements in Nagios

Product overview
Application overview

webgraph	SNMP-Request	OK	SNMP OK - " 23,8"

The NAGIOS software running on Linux/Unix operating systems makes it possible to monitor complex IT structures. With the help of the following example Web-Thermographs can also be incorporated into the system.

For this example you need a Linux/Unix PC with Nagios software installed. You also need the Nagios plug-ins, since these contain the command **check_snmp** for the SNMP query. The PC must have a Web server and an SNMP daemon.

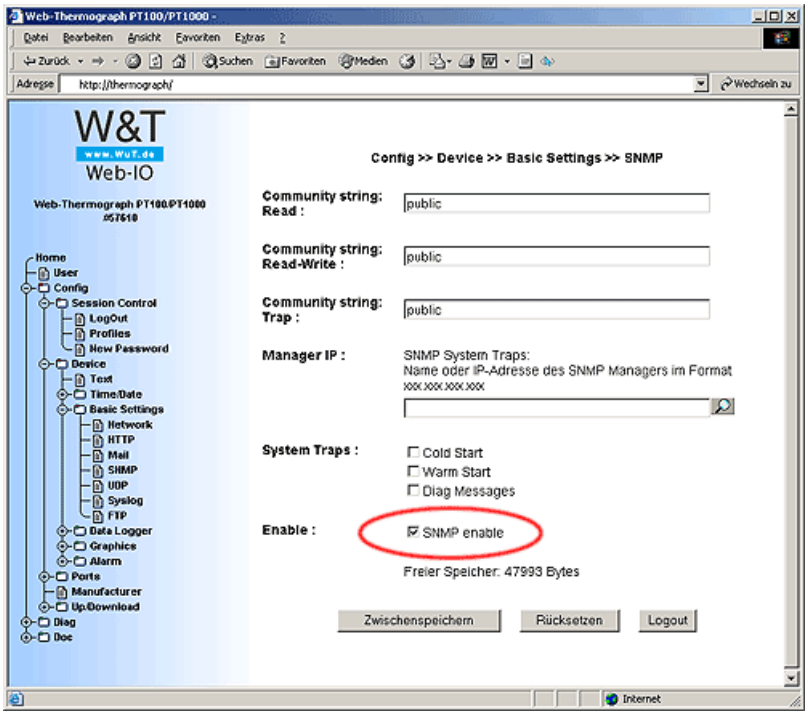
Preparations

You have already provided your Web-Thermograph(s)
- with power,
- connected it to your network,
- assigned it an IP address - which with WuTility is no problem.

You have also
- installed Nagios and the Nagios plug-ins on your PC

1. Activate SNMP

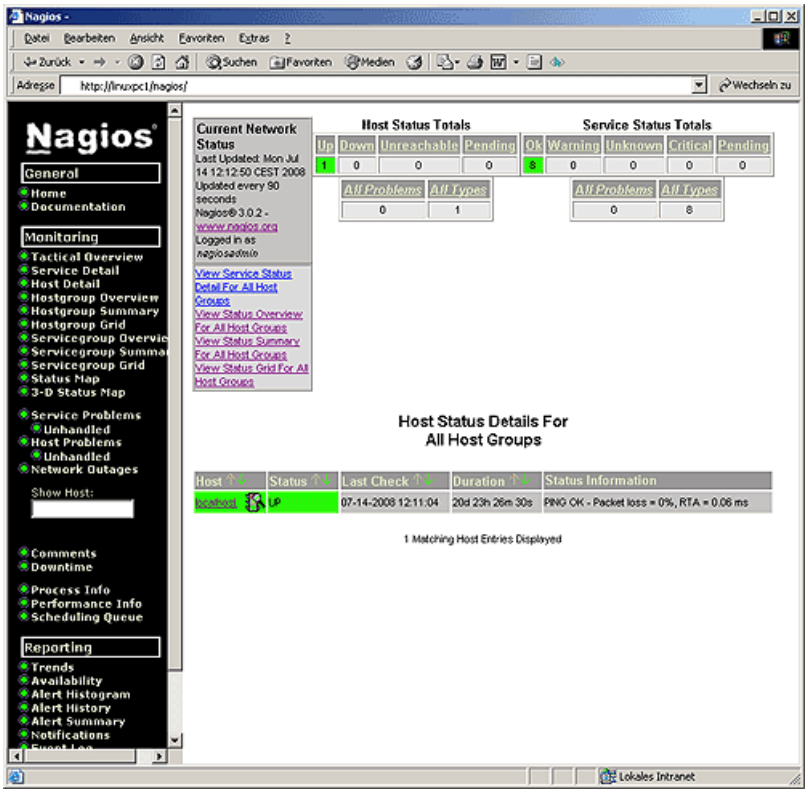
For the Web-Thermograph to be queried with SNMP, this function must first be enabled in the unit:



2. Configure NAGIOS

If NAGIOS is correctly installed on your PC, you can go to the Web page: `http://<rechnername>/nagios`

to find the start page of NAGIOS. First only the status of the local host is displayed.



3. Create configuration file

- For the Web-Thermograph to be represented in NAGIOS, a configuration file must be created. This is usually stored in the directory `/usr/local/nagios/etc/objects`.
- Create a file named **thermo.cfg**
- First a definition for the device and a device group must be created:

```
define host
 {
 use                 generic-host
 host_name           webgraph
 alias               Web-Thermograph
 address             192.168.0.12
 hostgroups          wut_devices
 check_command       check-host-alive
 max_check_attempts 3
 }
define hostgroup
 {
 hostgroup_name      wut_devices
 alias               WuT Devices
 members             webgraph
 }
```

The most important parameters here are the IP address of the device and the host name which you want displayed in NAGIOS. The names of the group and the alias names will become visible in NAGIOS later.

To query the device via SNMP, a corresponding command must be created which uses the plug-in **check_snmp** to retrieve the measurement from the unit:

```
define command
 {
 command_name        check_57610
 command_line        $USER1$/check_snmp -H $HOSTADDRESS$ -o 1.3.6.1.4.1.5040.1.2.8.1.3.1.1.1
 }
```

The command named check_57610 retrieves the measurement using SNMP and the corresponding SNMP-OID.

No a service must be created which executes the command created above:

```
define service
 {
 use                  generic-service
 host_name            webgraph
 service_description SNMP-Request
 check_command        check_57610
 }
```

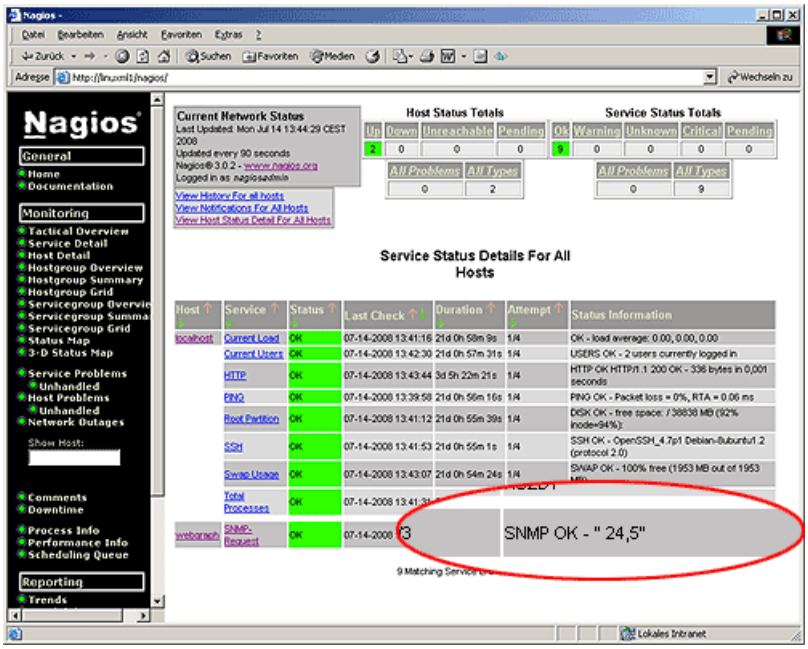
Once all the definitions are stored in the file **thermo.cfg**, NAGIOS must be made to load this file as a configuration at startup.

Open the file **/usr/local/nagios/etc/nagios.cfg** and insert the path to the file created above into the list of configuration files:

```
(...)
# You can specify individual object config files as shown below:
cfg_file=/usr/local/nagios/etc/objects/commands.cfg
cfg_file=/usr/local/nagios/etc/objects/contacts.cfg
cfg_file=/usr/local/nagios/etc/objects/timeperiods.cfg
cfg_file=/usr/local/nagios/etc/objects/templates.cfg
cfg_file=/usr/local/nagios/etc/objects/thermo.cfg
(...)
```

4. Display the measurement

- Restart NAGIOS.
- On the Service Status page the Web-Thermograph is now displayed with the current temperature.



Do you not yet have a Web-Thermograph but would like to simply try one out like the example presented here?
No problem: We'll send you the Web-Thermograph Pt100/Pt1000 at no charge for 30 days. Simply fill out the sample order form, and we'll ship the Web-IO Analog-In for testing on an open invoice. If you return the unit within 30 days, we will credit the invoice in full.

To sample orders

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www.WuT.de

We are available to you in person:

Wiesemann & Theis
GmbH
Porschestr. 12
42279 Wuppertal
Phone: +49 202/2680-110 (Mon.-Fri. 8 a.m. to 5 p.m.)
Fax: +49 202/2680-265
info@wut.de