

MONITORING UPS WITH NAGIOS AND

Network UPS Tools (NUT)

Configuration on Debian10 Server

connected directly via serial interface to the UPS

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A. Introduction

The solution for monitoring uninterruptible power supplies (UPS) with the <u>Network UPS Tools</u> is possible with the plugin *check_ups* which is included in Nagios Plugin Package.

Regarding the general rule that no plugin directly accesses the UPS interface the *check_ups* plugin rely on a corresponding **daemon upsd** that monitors the UPS and provides status information

B. With the Network UPS Tools (NUT) and the check_ups Plugin

B.1 Installation-Preparation of the Nut-Server

1. Installation of the "nut" package

Tipp: Installing the nut package, should add the nut user and group. If not add those manually.

2. entry for the Nut-Server in the file /etc/hosts

vim etc/hosts

for example:

192.168.188.xxx servername

3. Stop the nut-server service

/etc/init.d/nut-server stop

[ok] Stopping nut-server (via systemctl): nut-server.service.

4. Stop the nut-client service

/etc/init.d/nut-client stop

[ok] Stopping nut-client (via systemctl): nut-client.service.

B.2 Configuration of the Nut-Server

1. Edit the /etc/nut/nut.conf file

vi /etc/nut/nut.conf
Network UPS Tools: example nut.conf
#
######################################
######################################
The MODE determines which part of the NUT is to be started, and which
configuration files must be modified.
#
This file try to standardize the various files being found in the field, like
/etc/default/nut on Debian based systems, /etc/sysconfig/ups on RedHat based
systems, Distribution's init script should source this file to see which
component(s) has to be started.
#
The values of MODE can be:
- none: NUT is not configured, or use the Integrated Power Management, or use
some external system to startup NUT components. So nothing is to be started.
- standalone: This mode address a local only configuration, with 1 UPS
<pre># protecting the local system. This implies to start the 3 NUT layers (driver,</pre>
upsd and upsmon) and the matching configuration files. This mode can also
address UPS redundancy.
- netserver: same as for the standalone configuration, but also need
some more network access controls (firewall, tcp-wrappers) and possibly a# specific LISTEN directive in upsd.conf.
IMPORTANT NOTE:
This file is intended to be sourced by shell scripts.
You MUST NOT use spaces around the equal sign!
MODE=standalone

2. Edit the /etc/nut/ups.conf file
vi /etc/nut/ups.conf
Network UPS Tools: example ups.conf [ups] driver = usbhid-ups port = /dev/ttyS0
desc= "PR750ELCD" # The section header ([upsname]) can be just about anything as long as # it is a single word inside brackets. upsd uses this to uniquely # identify a UPS on this system.
If you have a UPS called snoopy, your section header would be "[snoopy]". # On a system called "doghouse", the line in your upsmon.conf to monitor
 # it would look something like this: # # MONITOR snoopy@doghouse 1 upsmonuser mypassword master #It might look like this if monitoring in slave mode:
<pre># # MONITOR snoopy@doghouse 1 upsmonuser mypassword slave # Configuration directives #</pre>
<pre># # # These directives are used by upsdrvctl only and should be specified outside # of a driver definition: #</pre>
 # # maxretry: Optional. Specify the number of attempts to start the driver(s), # in case of failure, before giving up. A delay of 'retrydelay' is # inserted between each attempt. Caution should be taken when using # this option, since it can impact the time taken by your system to # start.
The default is 1 attempt.
 # retrydelay: Optional. Specify the delay between each restart attempt of the # driver(s), as specified by 'maxretry'. Caution should be taken # when using this option, since it can impact the time taken by your # system to start.
<pre># The default is 5 seconds. #</pre>
 # These directives are common to all drivers that support ups.conf: # # driver: REQUIRED. Specify the program to run to talk to this UPS.
apcsmart, bestups, and sec are some examples.#
 # port: REQUIRED. The serial port where your UPS is connected. # /dev/ttyS0 is usually the first port on Linux boxes, for example. #

2. Edit the /etc/nut/ups.conf file



# # # # # #	upsd (Unix socket on Unix, Named pipe on Windows) without waiting for these data to be actually consumed. With some HW, such as ePDUs, that can produce a lot of data, asynchronous mode may cause some congestion, resulting in the socket to be full, and the driver to appear as not connected. By enabling the 'synchronous' flag (value = 'yes'), the driver will wait for data to be					
# # #	consumed by upsd, prior to publishing more. This can be enabled either globally or per driver.					
# # #	The default is 'no' (i.e. asynchronous mode) for backward compatibility of the driver behavior. < any other directives here >					
# # If y # wi # tha # an # #	SECURITY NOTE you use snmp-ups and set a community string in here, you II have to secure this file to keep other users from obtaining at string. It needs to be readable by upsdrvctl and any drivers, d by upsd.					
# ma # US # # Th # is a # dri	# This file is used by upsdrvctl to start and stop your driver(s), and# is also used by upsd to determine which drivers to monitor. The# drivers themselves also read this file for configuration directives.					
	nything else is passed through to the hardware-specific part of e driver.					



3. Make sure that nut properly detects the UPS- Start upsdrvctl

upsdrvctl start

Network UPS Tools - UPS driver controller 2.7.4

Network UPS Tools - Generic HID driver 0.41 (2.7.4) USB communication driver 0.33 Using subdriver: CyberPower HID 0.4

4. Edit the /etc/nut/upsd.conf file

Tipp: If you need to monitor multiple machines, see the man page for upsd.conf

vi /etc/nut/upsd.conf

Network UPS Tools: example upsd configuration file

#

This file contains access control data, you should keep it secure.

It should only be readable by the user that upsd becomes. See the FAQ.

#

#

Each entry below provides usage and default value.

#IP Address of Nut-Server LISTEN 192.168.188.xxx #If the Sever is the localhost #LISTEN 127.0.0.1 ACCEPT servername REJECT all

MAXAGE 15

#

This defaults to 15 seconds. After a UPS driver has stopped updating# the data for this many seconds, upsd marks it stale and stops making# that information available to clients. After all, the only thing worse# than no data is bad data.

#

#

You should only use this if your driver has difficulties keeping# the data fresh within the normal 15 second interval. Watch the syslog# for notifications from upsd about staleness.

STATEPATH <path>

STATEPATH /var/run/nut/usbhid-ups-cyberpower.pid

Tell upsd to look for the driver state sockets in 'path' rather



than the default that was compiled into the program.
=====================================
#ACCEPT localhost
#REJECT all
This defaults to the localhost listening addresses and port 3493.
In case of IP v4 or v6 disabled kernel, only the available one will be used.
#
You may specify each interface you want upsd to listen on for connections,
optionally with a port number.
#
You may need this if you have multiple interfaces on your machine and# you don't want upsd to listen to all interfaces (for instance on a
firewall, you may not want to listen to the external interface).
#
This will only be read at startup of upsd. If you make changes here,
you'll need to restart upsd, reload will have no effect.
=====================================
MAXCONN <connections></connections>
MAXCONN 1024
#
This defaults to maximum number allowed on your system. Each UPS, each # LISTEN address and each client count as one connection. If the server
runs out of connections, it will no longer accept new incoming client# connections. Only set this if you know exactly what you're doing.
a connections. Only set this if you know exactly what you're doing.
=====================================
CERTFILE <certificate file=""></certificate>
CERTFILE /usr/local/ups/etc/upsd.pem
CERTFILE /usr/local/ups/etc/upsd.pem
CERTFILE /usr/local/ups/etc/upsd.pem # # When compiled with SSL support with OpenSSL backend,
CERTFILE /usr/local/ups/etc/upsd.pem # # When compiled with SSL support with OpenSSL backend, # you can enter the certificate file here.
 # CERTFILE /usr/local/ups/etc/upsd.pem # # When compiled with SSL support with OpenSSL backend, # you can enter the certificate file here. # The certificates must be in PEM format and must be sorted starting with
<pre># CERTFILE /usr/local/ups/etc/upsd.pem # # When compiled with SSL support with OpenSSL backend, # you can enter the certificate file here. # The certificates must be in PEM format and must be sorted starting with # the subject's certificate (server certificate), followed by intermediate</pre>
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Specify the path of the database directory.
#
See 'docs/security.txt' or the Security chapter of NUT user manual
for more information on the SSL support in NUT.
=====================================
CERTIDENT <certificate name=""> <database password=""></database></certificate>
CERTIDENT "my nut server" "MyPasSw0rD"
#
When compiled with SSL support with NSS backend,
you can specify the certificate name to retrieve from database to
authenticate itself and the password
required to access certificate related private key.
#
See 'docs/security.txt' or the Security chapter of NUT user manual
for more information on the SSL support in NUT.
=====================================
CERTREQUEST <certificate level="" request=""></certificate>
CLAINEQUEST <certificate level="" request=""></certificate>
CERTREQUEST REQUIRE
CERTREQUEST REQUIRE
CERTREQUEST REQUIRE
CERTREQUEST REQUIRE # # When compiled with SSL support with NSS backend and client certificate
<pre># CERTREQUEST REQUIRE # # When compiled with SSL support with NSS backend and client certificate # validation (disabled by default, see 'docs/security.txt'),</pre>
<pre># CERTREQUEST REQUIRE # # When compiled with SSL support with NSS backend and client certificate # validation (disabled by default, see 'docs/security.txt'), # you can specify if upsd requests or requires client's' certificates.</pre>
<pre># CERTREQUEST REQUIRE # # When compiled with SSL support with NSS backend and client certificate # validation (disabled by default, see 'docs/security.txt'), # you can specify if upsd requests or requires client's' certificates. # Possible values are :</pre>
<pre># CERTREQUEST REQUIRE # # When compiled with SSL support with NSS backend and client certificate # validation (disabled by default, see 'docs/security.txt'), # you can specify if upsd requests or requires client's' certificates. # Possible values are : # - 0 to not request to clients to provide any certificate</pre>
<pre># CERTREQUEST REQUIRE # # When compiled with SSL support with NSS backend and client certificate # validation (disabled by default, see 'docs/security.txt'), # you can specify if upsd requests or requires client's' certificates. # Possible values are : # - 0 to not request to clients to provide any certificate # - 1 to require to all clients a certificate</pre>
<pre># CERTREQUEST REQUIRE # # When compiled with SSL support with NSS backend and client certificate # validation (disabled by default, see 'docs/security.txt'), # you can specify if upsd requests or requires client's' certificates. # Possible values are : # - 0 to not request to clients to provide any certificate # - 1 to require to all clients a certificate # - 2 to require to all clients a valid certificate</pre>
<pre># CERTREQUEST REQUIRE # # When compiled with SSL support with NSS backend and client certificate # validation (disabled by default, see 'docs/security.txt'), # you can specify if upsd requests or requires client's' certificates. # Possible values are : # - 0 to not request to clients to provide any certificate # - 1 to require to all clients a certificate # - 2 to require to all clients a valid certificate #</pre>

5. Edit the /etc/nut/uspd.users file

Tipp: If you are monitoring from multiple machines **add multiple users.** see the **man page for upsd.users**

vi /etc/nut/upsd.users
Network UPS Tools: Example upsd.users
 # # This file sets the permissions for upsd- the UPS network daemon. # Users are defined here, are given passwords, and their privileges are # controlled here too. Since this file will contain passwords, keep it # secure, with only enough permissions for upsd to read it.
#
Each user gets a section. To start a section, put the username in



brackets on a line by itself. To set something for that user, specify
it under that section heading. The username is case-sensitive, so
admin and AdMiN are two different users.
#Example
[user]
upsmon master/slave
password = userpassword
actions = SET
instcmds = ALL
#
#
#
"master" means this system will shutdown last, allowing the slaves
time to shutdown first.
"slave" means this system shuts down immediately when power goes critical.
#
#
password: The user's password. This is case-sensitive.
#
#
actions: Let the user do certain things with upsd.
Valid actions are:
#
SET - change the value of certain variables in the UPS
FSD - set the "forced shutdown" flag in the UPS
#
#
instcmds: Let the user initiate specific instant commands. Use "ALL"
to grant all commands automatically. There are many possible
commands, so use 'upscmd-l' to see what your hardware supports. Here
are a few examples:
are a rew examples.
test.panel.start - Start a front panel test
test.battery.start - Start battery test
test.battery.stop - Stop battery test
calibrate.start - Start calibration
calibrate.stop - Stop calibration

6. Edit the /etc/nut/upsmon.conf file

vi upsmon.conf # Network UPS Tools: example upsmon configuration # "master" means this system will shutdown last, allowing the slaves # time to shutdown first. # "slave" means this system shuts down immediately when power goes critical. # This file contains passwords, so keep it secure. MONITOR upsname@severname 1 user userpassword master/slave SHUTDOWNCMD "/sbin/shutdown -h now" **POWERDOWNFLAG** /etc/nut/killpower # # By default, upsmon splits into two processes. One stays as root and # waits to run the SHUTDOWNCMD. The other one switches to another userid # and does everything else. # # The default nonprivileged user is set at compile-time with 'configure --with-user=...'. # # # You can override it with '-u <user>' when starting upsmon, or just # define it here for convenience. # # Note: if you plan to use the reload feature, this file (upsmon.conf) # must be readable by this user! Since it contains passwords, DO NOT # make it world-readable. Also, do not make it writable by the upsmon # user, since it creates an opportunity for an attack by changing the # SHUTDOWNCMD to something malicious. # # For best results, you should create a new normal user like "nutmon", # and make it a member of a "nut" group or similar. Then specify it # here and grant read access to the upsmon.conf for that group. # # This user should not have write access to upsmon.conf. # # RUN_AS_USER nut # MONITOR <system> <powervalue> <username> <password> ("master"|"slave") # # List systems you want to monitor. Not all of these may supply power # to the system running upsmon, but if you want to watch it, it has to # be in this section. Ħ # You must have at least one of these declared. # <system> is a UPS identifier in the form <upsname>@<hostname>[:<port>] # like ups@localhost, su700@mybox, etc.



7. Fix the permissions of the /etc/nut/ files

chown root:nut /etc/nut*

chmod 640 /etc/nut/*

8. Make sure upsd daemon and upsmon program start at system reboot

vi /etc/default/nut

<mark>START_UPSD=yes</mark> START_UPSMON=yes

9. Start nut-server service

/etc/init.d/nut-server start

ok] Starting nut-server (via systemctl): nut-server.service

10. Start nut-client service

/etc/init.d/nut-client start

[ok] Starting nut-client (via systemctl): nut-client.service.

B.3 The check_ups plugin

The check_ups plugin itself has the following options:

-H/host		Addresss		
-u /ups		Name of UPS		
-p /port		Port		
-v /variable		Check_ups supports the following variables:		
	LINE : Input	voltage of the UPS		
	TEMP: Temp	erature of the UPS		
	BATTPCT:	Remaining battery capacity in %		
	LOADPCT:	Load on the UPS in %		
-w/whole_	number	The warning limit as a whole number		
-c/critical		Critical limit in connection with a variable		
-T /tempera	ature	Temperature in degrees		
-t /timeout		Timeout in seconds, by default timeout is 10 sec. After these seconds		
		the plugin stops the test and returns to CRITICAL state.		

Note: If a variable is not used the plugin returns:

- CRITICAL if the UPS is in Status: OFF/On Battery/Low Battery/Replace Battery
- OK if the UPS is in Status: online/Calibrating/On Bypass/ Overload /Trimming /Boosting /Charging /Discharging
- 1. Test the plugin check_ups in /usr/local/nagios/libexec/

./check_ups -H localhost -u ups

Example

./check_ups -H localhost -u ups -T

UPS OK - Status=Online Utility=222.0V Batt=100.0% Load=5.0% |voltage=222000mV;;;0 battery=100%;;;0;100 load=5%;;;0;100

2. Create a command in the /usr/local/nagios/etc/objects/commands.cfg file Transformed into a command object the above test for any host looks like this:

define command {

```
command_name check_local_ups
command_line $USER1$/check_ups -H $HOSTADDRESS$ -u $ARG1$ -T
```

3. Create a service for checking the ups occasionally in the usr/local/nagios/etc/objects/localhost.cfg file

For example hier is: Warning if > , critical if >10%, warning if >6% # > 400 processes.

define service {

use loca	al-service
host_name	hp
service_description	check _ups
check_command	check_local_ups!ups!10%!6%
check_interval	5
max_check_attempts	3

4. Verify the configuration

/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg

Nagios Core 4.4.5 Copyright (c) 2009-present Nagios Core Development Team and Community Contributors Copyright (c) 1999-2009 Ethan Galstad Last Modified: 2019-08-20 License: GPL

Website: https://www.nagios.org Reading configuration data... Read main config file okay... Read object config files okay...

Running pre-flight check on configuration data...

Checking objects...

Checked 9 services. Checked 2 hosts. Checked 1 host groups. Checked 0 service groups. Checked 1 contacts. Checked 1 contact groups. Checked 1 contact groups. Checked 24 commands. Checked 5 time periods. Checked 0 host escalations. Checked 0 service escalations. Checked 0 service escalations. Checked 2 hosts



Checked 0 service dependencies Checked 0 host dependencies Checked 5 timeperiods Checking global event handlers... Checking obsessive compulsive processor commands... Checking misc settings...

Total Warnings: 0 Total Errors: 0

Things look okay - No serious problems were detected during the pre-flight check

5. Restart and check Nagios service:

service nagios restart

service nagios status

• nagios.service - Nagios Core 4.4.5 Loaded: loaded (/lib/systemd/system/nagios.service; enabled; vendor preset: e Active: active (running) since Tue 2020-11-10 08:58:41 GMT; 36s ago



6. Check the results in your web browser:

Nagios* General Home Documentation	Current Network Statu Last Updated: Thu May 28 11 Updated every 90 seconds Nagios® Core™ 4.4.5 - www Logged in as nagiosadmin View Status Overview For A View Status Summary For A	5:39:28 BST 2020 Up Dowr unagios.org 2 0 All F or All Host Groups	st Status Totals Unreachable Pending Ok W 0 0 8 roblems All Types 0 2	Service Status Totals uning Unknown Critical Pending 0 0 1 0 All Problems All Types 1 9		
Current Status	Vew Status Summary-tor An Host strougs Vew Status Grid For All Host Groups					
Tactical Overview Map (Legacy) Hosts Services	Limit Results: 100 V		Host S	itatus Details For All Host	Groups	
Host Groups Summary	Host **	Status ★	Last Check +	Duration **	Status Information	
Grid	hp	UP UP	05-28-2020 15:38:29	Od 2h 25m 59s	PING OK - Packet loss = 0%. RTA = 0.13 ms	
Service Groups Summary	localhost	UP	05-28-2020 15:36:27	1d 23h 11m 2s	PING OK - Packet loss = 0%, RTA = 0.14 ms	
Problems Services (Unhandied) Hoss (Unhandied) Network Outages Quick Search: Reports Availability Trends (Legacy) Akers	Results I - 2 of 2 Matching Ho	ais				
History Summary Histogram (Legacy) Notifications Event Log						