

LibreNMS ?????

- [LibreNMS Smokeping \[TTT\]](#)

LibreNMS Smokeping ????

SmokePing ██████████

LibreNMS ███

Smokeping █████

??Smokeping

██ Smokeping

```
apt-get install smokeping
```

██ LibreNms smokeping██ cron

```
sudo cp /opt/librenms/misc/smokeping-debian.example /etc/cron.hourly/librenms-smokeping
sudo chmod +x /etc/cron.hourly/librenms-smokeping
```

████ cron████████

```
/etc/cron.hourly/librenms-smokeping
ls -l /etc/smokeping/config.d/librenms-targets.conf
ls -l /etc/smokeping/config.d/librenms-probes.conf
```

```
root@librenms:~# /etc/cron.hourly/librenms-smokeping
root@librenms:~# ls -l /etc/smokeping/config.d/librenms-targets.conf
-rw-r--r-- 1 root root 723 Nov  7 17:10 /etc/smokeping/config.d/librenms-targets.conf
root@librenms:~# ls -l /etc/smokeping/config.d/librenms-probes.conf
-rw-r--r-- 1 root root 409 Nov  7 17:10 /etc/smokeping/config.d/librenms-probes.conf
root@librenms:~# █
```

██ /etc/smokeping/config.d/Probes █████

```
*** Probes ***
```

```
@include /etc/smokeping/config.d/librenms-probes.conf
```

/etc/smokeping/config.d/Targets

```
*** Targets ***

probe = FPing

menu = Top

title = Network Latency Grapher

remark = Welcome to the SmokePing website of <b>Insert Company Name Here</b>. \
        Here you will learn all about the latency of our network.

@include /etc/smokeping/config.d/librenms-targets.conf
```

Smokeping

```
mkdir /opt/librenms/rrd/smokeping
```

Smokeping

/opt/librenms/rrd/smokeping

smokeping

librenms

/opt/librenms/rrd/smokeping

```
chown librenms:librenms /opt/librenms/rrd/smokeping

usermod -a -G librenms smokeping
```

20

▼ Smokeping 整合

smokeping.integration

smokeping.dir

/opt/librenms/rrd/smokeping

smokeping.pings (pings)

20

/etc/smokeping/config.d/Database

step

(5)

```

root@librenms:~# cat /etc/smokeping/config.d/Database
*** Database ***

step      = 60
pings     = 20

# consfn mrhb steps total
AVERAGE  0.5   1  1008
AVERAGE  0.5  12  4320
  MIN     0.5  12  4320
  MAX     0.5  12  4320
AVERAGE  0.5 144   720
  MAX     0.5 144   720
  MIN     0.5 144   720

```

```

❏ /etc/smokeping/config.d/pathnames ❏ datadir ❏❏❏❏❏❏❏

```

```

root@librenms:~# cat /etc/smokeping/config.d/pathnames
sendmail = /usr/sbin/sendmail
imgcache = /var/cache/smokeping/images
imgurl    = ../smokeping/images
datadir   = /opt/librenms/rrd/smokeping
piddir    = /run/smokeping
smokemail = /etc/smokeping/smokemail
tmail     = /etc/smokeping/tmail
dyndir    = /var/lib/smokeping/__cgi

```

❏ **smokeping**

```

service smokeping restart

service smokeping status

```

❏ **Librenms RRD❏ smokeping❏❏❏**

```

root@librenms:~# ls -l /opt/librenms/rrd/smokeping/
total 16
drwxr-xr-x+ 2 smokeping smokeping 4096 Nov  7 14:52 others
drwxr-xr-x+ 2 smokeping smokeping 4096 Nov  7 17:39 __sortercache
drwxr-xr-x+ 2 smokeping smokeping 4096 Nov  7 14:10 server
drwxr-xr-x+ 2 smokeping smokeping 4096 Nov  7 14:44 storage

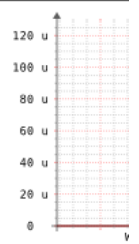
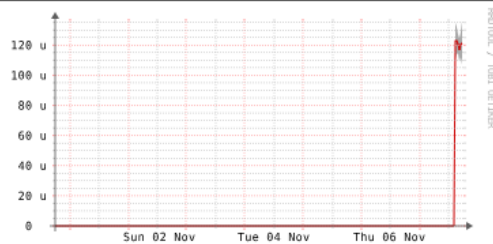
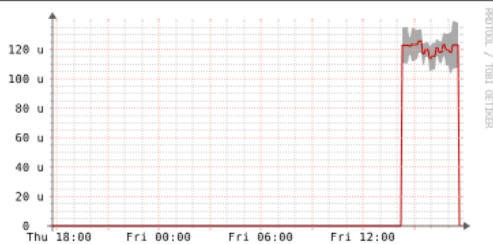
```

❏❏ **Latency❏❏ smokeping❏**

Smokeping ➔

傳入

Average



?? Web UI ??

☐ fcgiwrap
 ☐ CGI
 ☐ Nginx

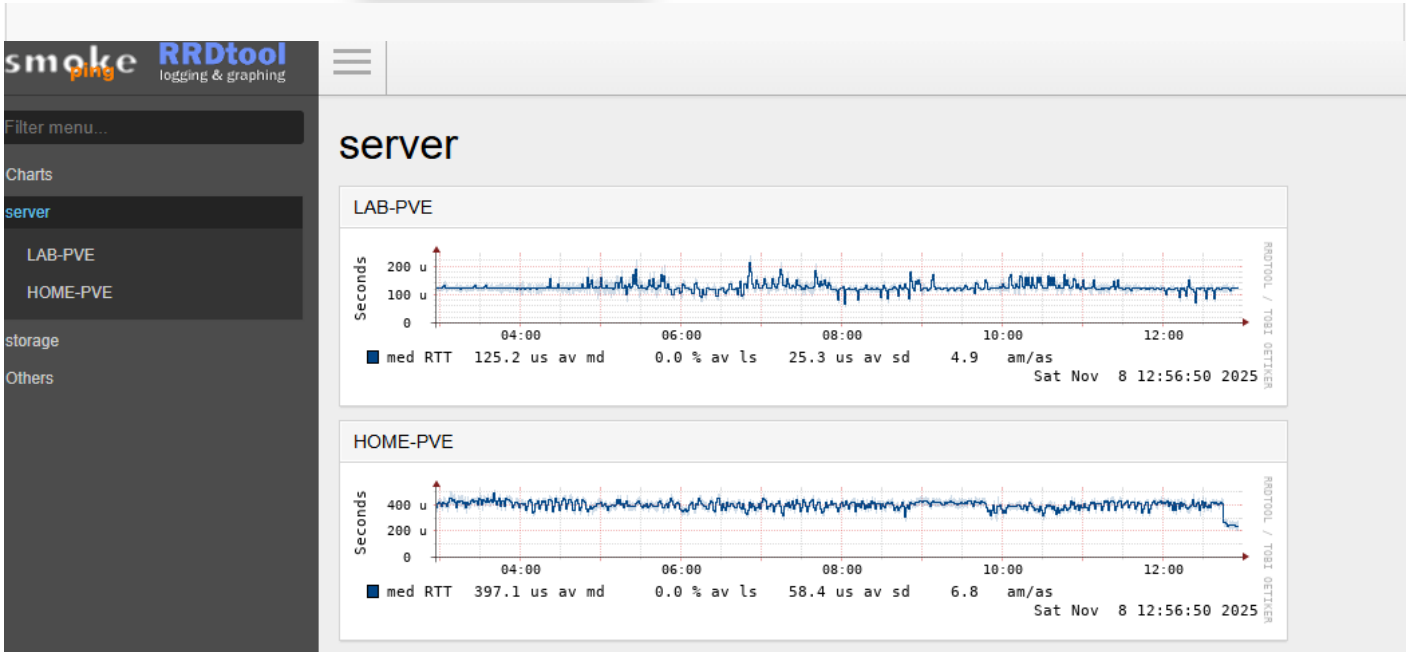
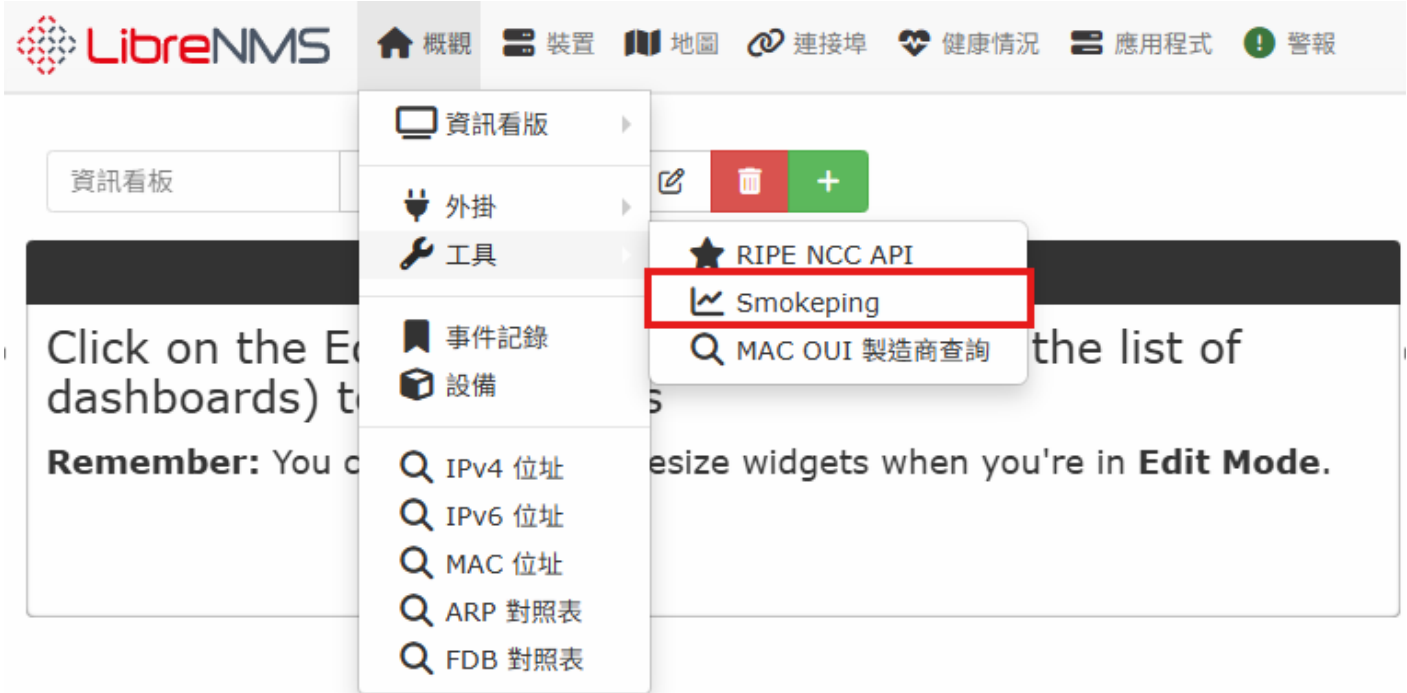
```
apt install fcgiwrap
```

☐ `/etc/nginx/conf.d/librenms.conf`
☐ **smokeping**

Browsing to `http://yourlibrenms/smokeping/` should bring up the smokeping web interface

```
location = /smokeping/ {
    fastcgi_intercept_errors on;

    fastcgi_param    SCRIPT_FILENAME    /usr/lib/cgi-bin/smokeping.cgi;
    fastcgi_param    QUERY_STRING       $query_string;
    fastcgi_param    REQUEST_METHOD     $request_method;
    fastcgi_param    CONTENT_TYPE       $content_type;
    fastcgi_param    CONTENT_LENGTH     $content_length;
    fastcgi_param    REQUEST_URI        $request_uri;
    fastcgi_param    DOCUMENT_URI       $document_uri;
    fastcgi_param    DOCUMENT_ROOT      $document_root;
    fastcgi_param    SERVER_PROTOCOL    $server_protocol;
```

??????

Web UI Librenms host

/etc/smokeping/config.d/Targets

```
@include /etc/smokeping/config.d/custom.conf
```

/etc/smokeping/config.d/custom.conf host

+ Others

menu = Others

title = Others

++ GoogleDNS

menu = Google DNS

title = Google DNS

host = 8.8.8.8

++ CHTDNS

menu = CHT DNS

title = CHT DNS

host = 168.95.1.1

■■■■■■■■■■

smokeping --check

service smokeping restart

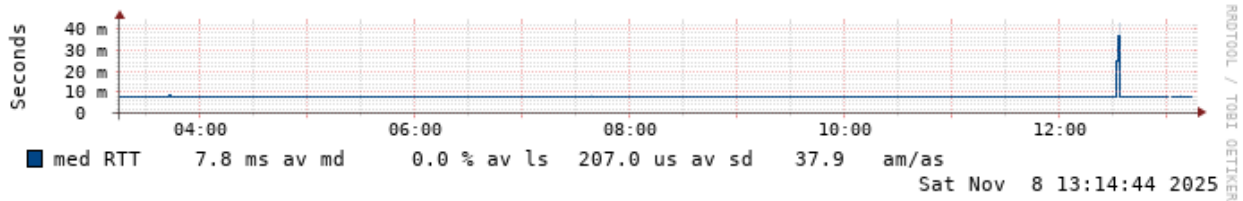
■■■■■■■■■■

host

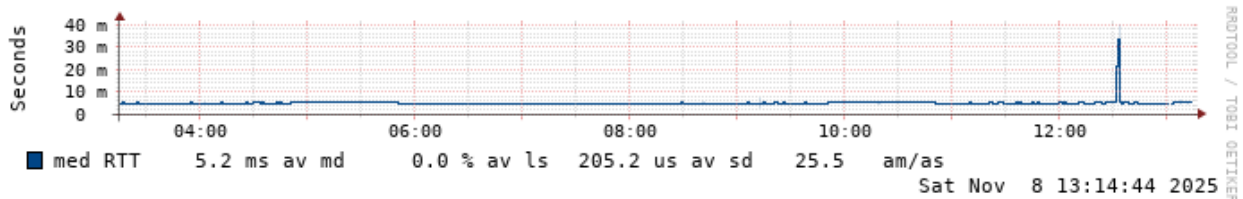


Others

Google DNS



CHT DNS



??Probes

■■■■■ **fping**■■■■■ Github■■ **tcpping**■■■ **traceroute**■ **tcptraceroute**
■■■■■ **TCP PORT**■■■

```
curl -o /usr/bin/tcpping -L https://raw.githubusercontent.com/deajan/tcpping/master/tcpping
chmod +x /usr/bin/tcpping
```

■■ **tcpping**■■

```
root@librenms:~# tcpping google.com 443
seq 0: tcp response from nctsaa-ac-in-f14.1e100.net (142.250.196.206) 7.402 ms
seq 1: tcp response from hkg07s38-in-f14.1e100.net (142.250.204.46) 7.545 ms
seq 2: tcp response from lctsaa-aa-in-f14.1e100.net (142.250.66.78) 7.399 ms
```

■■■■■ **traceroute** ■■ **root** ■■■■■■ **smokeping**■■ **traceroute**

■■ **/etc/tcpping.conf**■■■■■■ **-Z**■■ (**■■ sudo**)

```
TCPPING_EXTRA_ARGS="-Z"
```

visudo smokeping root traceroute

```
smokeping ALL=(ALL) NOPASSWD: /usr/bin/traceroute
```

```
□□ /etc/smokeping/config.d/Probes □□ tcpping
```

```
+ TCPPing
  binary = /usr/bin/tcpping
```

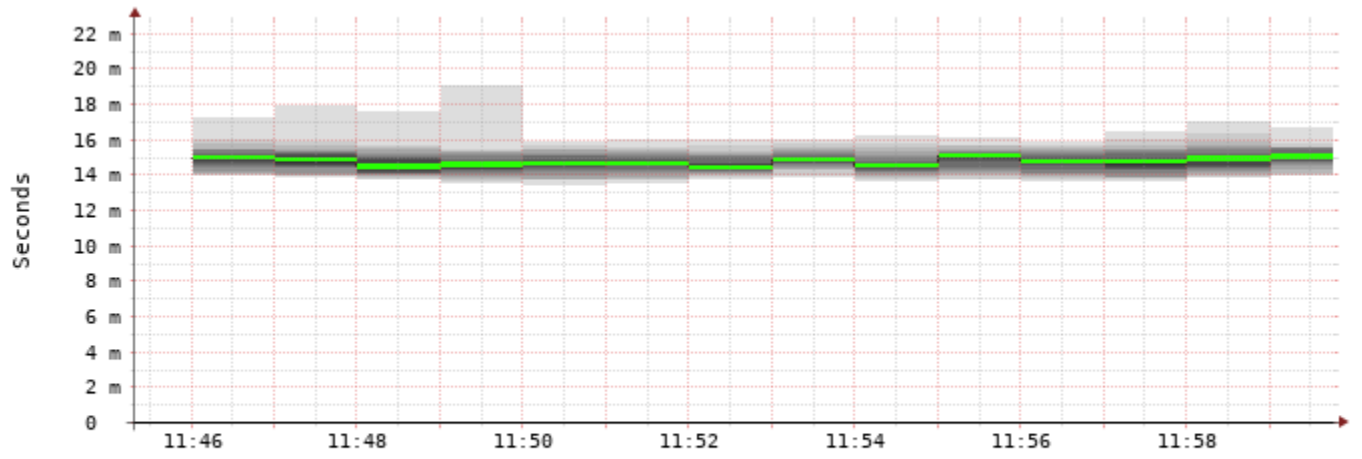
```
root@librenms:~# cat /etc/smokeping/config.d/Probes
*** Probes ***

+ TCPping
    binary = /usr/bin/tcping
@include /etc/smokeping/config.d/librenms-probes.conf
```

host probe port

```
++ Google-https
menu = Google https
title = Google https
probe = TCPPing
port = 443
host = google.com
```

☐ **smokeping**☐☐☐☐☐ **probe**☐ **TCP Ping**



median rtt: 14.8 ms avg 15.1 ms max 14.5 ms min 15.1 ms now 0.2 ms sd 73.3 am/s

packet loss: 0.00 % avg 0.00 % max 0.00 % min 0.00 % now

loss color: 0 1/20 2/20 3/20 4/20 10/20 19/20

probe: 20 TCP Pings every 60s end: Sun Nov 9 11:59:46 2025