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** □□□



□□ `/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**

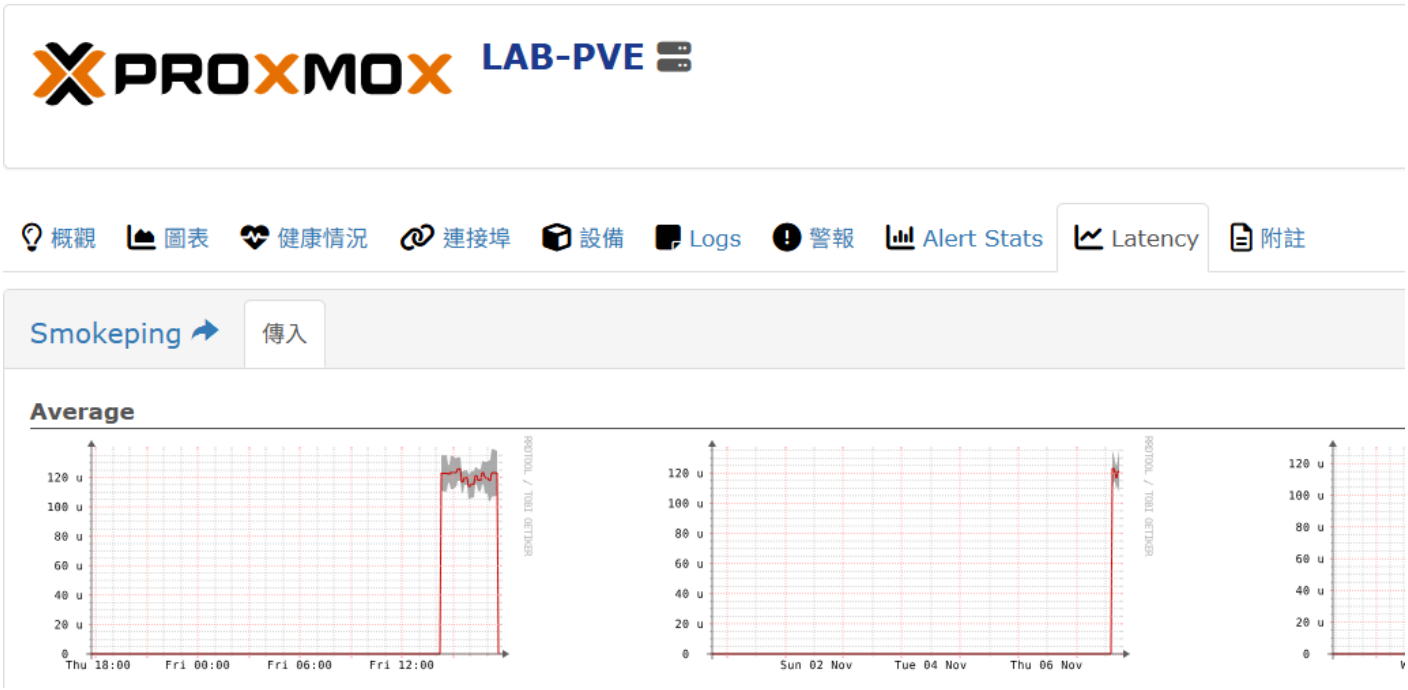
```
service smokeping restart


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□□**



?? 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;
```

```
        fastcgi_param   GATEWAY_INTERFACE       CGI/1.1;
        fastcgi_param   SERVER_SOFTWARE         nginx/$nginx_version;
        fastcgi_param   REMOTE_ADDR             $remote_addr;
        fastcgi_param   REMOTE_PORT             $remote_port;
        fastcgi_param   SERVER_ADDR             $server_addr;
        fastcgi_param   SERVER_PORT             $server_port;
        fastcgi_param   SERVER_NAME             $server_name;
        fastcgi_param   HTTPS                   $https if_not_empty;

        fastcgi_pass unix:/var/run/fcgiwrap.socket;
}

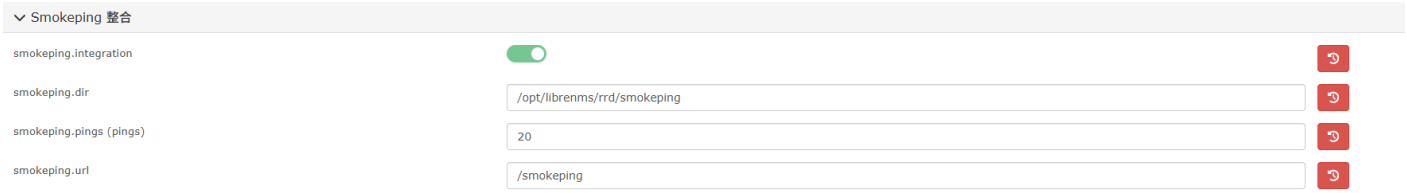
location ^~ /smokeping/ {
        alias /usr/share/smokeping/www/;
        index smokeping.cgi;
        gzip off;
}
```

□□ Nginx

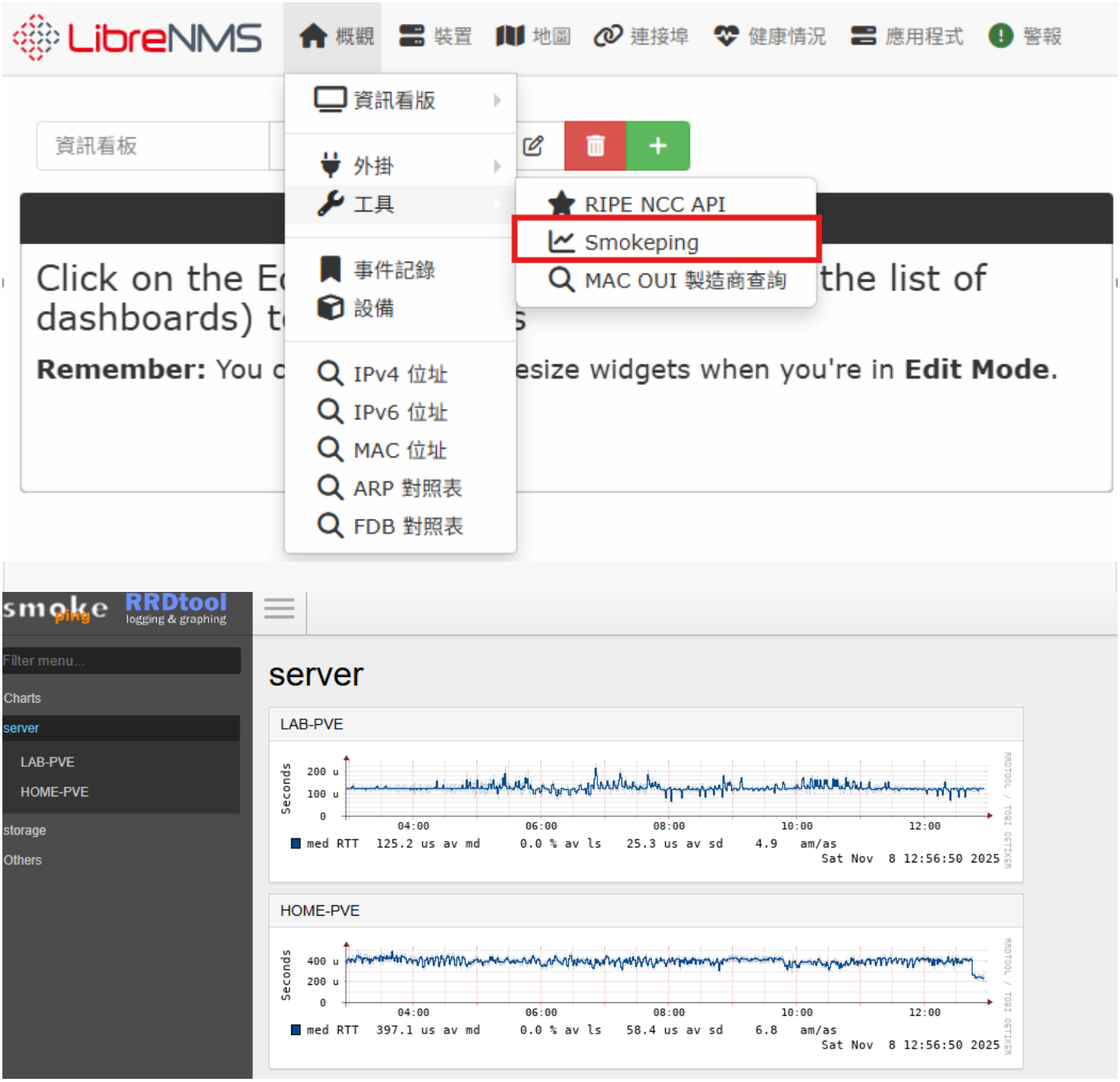
```
nginx -t

service nginx restart
```

□□□ URL□□ `/smokeping`



□□□□□□□ □□ > `smokeping`



??????

□□ **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**



??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)**

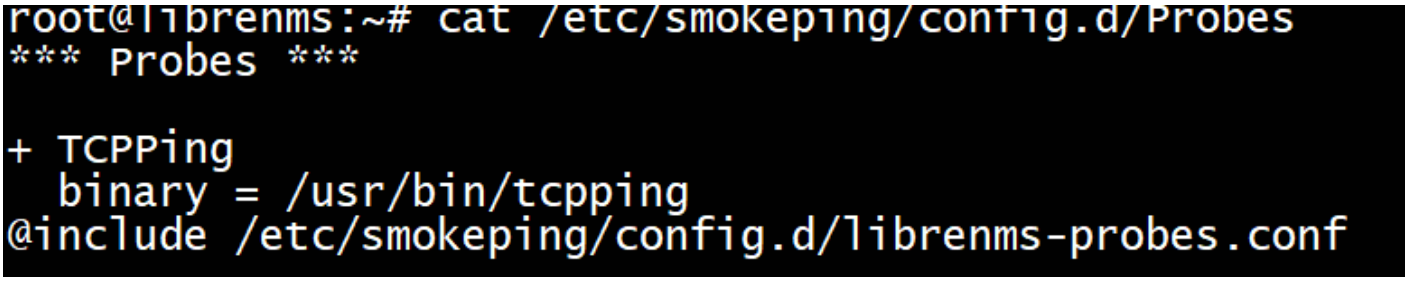
```
TCPPING_EXTRA_ARGS="-Z"
```

□□ `visudo`□□ **smokeping □ root □□□□ traceroute □□□□**

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

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

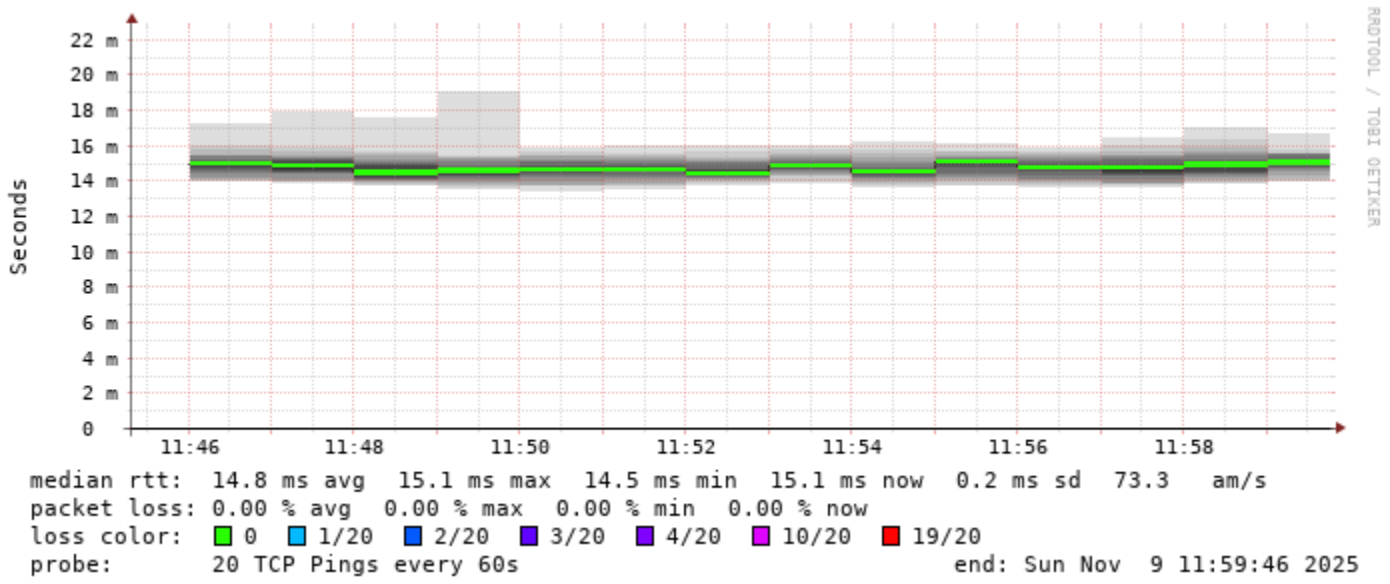
```
+ TCPPing
  binary = /usr/bin/tcpping
```



□□□□□□□□□□□□ **host□□□ probe□ port**

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

□□ **smokeping□□□□□ probe□□ TCP Ping**



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