LibreNMS?? - Ubuntu 20

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- **PVE**
- **LXC**
- **Ubuntu 20**

????

```
timedatectl set-timezone Asia/Taipei
```

??LibreNMS?????>php8.1

```
apt update
apt install software-properties-common
add-apt-repository universe
apt install php-mbstring php8.1-cli php8.1-common php8.1-curl php8.1-fpm php8.1-gd php8.1-mbstring php8.1-mysql php8.1-opcache php8.1-readline php8.1-snmp php8.1-xml php8.1-zip acl curl fping git graphviz imagemagick mariadb-client mariadb-server mtr-tiny nginx-full nmap rrdtool snmp snmpd whois unzip python3-pymysql python3-dotenv python3-redis python3-setuptools python3-systemd python3-pip -y
```

> php-mbstring□□□□□□ 500 ERROR

Add librenms user

```
useradd librenms -d /opt/librenms -M -r -s "$(which bash)"
```

Download LibreNMS

```
cd /opt
git clone https://github.com/librenms/librenms.git
```

Set permissions

```
chown -R librenms:librenms /opt/librenms
chmod 771 /opt/librenms
setfacl -d -m g::rwx /opt/librenms/rrd /opt/librenms/logs /opt/librenms/bootstrap/cache/ /opt/librenms/storage/
setfacl -R -m g::rwx /opt/librenms/rrd /opt/librenms/logs /opt/librenms/bootstrap/cache/ /opt/librenms/storage/
```

????

```
nano /etc/php/8.1/fpm/php.ini
nano /etc/php/8.1/cli/php.ini

□□[Date] □□□□□ Asia/Taipei
```

??MariaDB

```
nano /etc/mysql/mariadb.conf.d/50-server.cnf

Within the [mysqld] section add:
innodb_file_per_table=1
lower_case_table_names=0
```

```
systemctl enable mariadb
systemctl restart mariadb
```

```
mysql -u root

CREATE USER 'librenmsuser'@'localhost' IDENTIFIED BY 'librenmsuserpswd';
GRANT ALL PRIVILEGES ON librenms.* TO 'librenmsuser'@'localhost';
FLUSH PRIVILEGES;
exit
```

??PHP-FPM

```
cp /etc/php/8.1/fpm/pool.d/www.conf /etc/php/8.1/fpm/pool.d/librenms.conf
nano /etc/php/8.1/fpm/pool.d/librenms.conf

Change [www] to [librenms]:
```

```
[librenms]

Change user and group to “librenms”:

user = librenms
group = librenms

Change listen to a unique name:

listen = /run/php-fpm-librenms.sock

Configure Web Server
```

??librenms.conf

```
nano /etc/nginx/conf.d/librenms.conf

server {
 listen      80;
 server_name 127.0.0.1;
 root        /opt/librenms/html;
 index       index.php;
 charset utf-8;
 gzip on;
 gzip_types text/css application/javascript text/javascript application/x-javascript
image/svg+xml text/plain text/xsd text/xsl text/xml image/x-icon;
 location / {
  try_files $uri $uri/ /index.php?$query_string;
 }
 location ~ [^/]\.php(/|$) {
  fastcgi_pass unix:/run/php-fpm-librenms.sock;
  fastcgi_split_path_info ^(.+\.php)(/.+)$;
  include fastcgi.conf;
 }
 location ~ /\.(?!well-known).* {
  deny all;
 }
}
```

```
rm /etc/nginx/sites-enabled/default
rm /etc/nginx/sites-available/default

systemctl restart nginx
systemctl restart php8.1-fpm
```

Enable lnms command completion

```
ln -s /opt/librenms/lnms /usr/bin/lnms
cp /opt/librenms/misc/lnms-completion.bash /etc/bash_completion.d/
```

Configure snmpd

```
cp /opt/librenms/snmpd.conf.example /etc/snmp/snmpd.conf

curl -o /usr/bin/distro https://raw.githubusercontent.com/librenms/librenms-
agent/master/snmp/distro
chmod +x /usr/bin/distro
systemctl enable snmpd
systemctl restart snmpd
```

Cron job

```
cp /opt/librenms/librenms.nonroot.cron /etc/cron.d/librenms
```

Copy logrotate config

```
cp /opt/librenms/misc/librenms.logrotate /etc/logrotate.d/librenms
```

□□□ `http://ip`□□□□□□□□□□□□

```
cd /opt/librenms

su librenms

./validate.php
```

Revision #4
Created 5 June 2025 17:22:29 by Jason
Updated 6 June 2025 00:28:39 by Jason