

LibreNMS?? - Debian 12

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- PVE
- LXC
- Debian 12

??nginx mariadb php

```
apt update
```

```
apt install php-mbstring php-cli php-common php-curl php-fpm php-gd php-mbstring php-mysql  
php-opcache php-readline php-snmp php-xml php-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
```

?? Composer

```
cd /usr/local/bin
```

```
curl -sS https://getcomposer.org/installer | php
```

```
mv composer.phar composer
```

?????

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

??LibreNMS

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

????

```
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/
```

?? LibreNMS???

```
su librenms  
cd /opt/librenms/  
./scripts/composer_wrapper.php install --no-dev  
  
exit  
pip3 install --user --break-system-packages -r /opt/librenms/requirements.txt
```

??PHP??

```
sed -i "s|^;date.timezone =.*$|date.timezone = Asia/Taipei|" /etc/php/8.2/fpm/php.ini  
sed -i "s|^;date.timezone =.*$|date.timezone = Asia/Taipei|" /etc/php/8.2/cli/php.ini  
  
□□□□□□  
timedatectl set-timezone Asia/Taipei
```

?? PHP-FPM

```
cp /etc/php/8.2/fpm/pool.d/www.conf /etc/php/8.2/fpm/pool.d/librenms.conf  
nano /etc/php/8.2/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
```

```
systemctl enable php8.2-fpm  
systemctl restart php8.2-fpm
```

??MariaDB

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

```
[mysqld]#####  
  
innodb_file_per_table=1  
lower_case_table_names=0
```

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

MariaDB?????

```
mysql -u root  
  
CREATE DATABASE librenms CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci;  
CREATE USER 'librenmsuser'@'localhost' IDENTIFIED BY 'librenmspswd';  
GRANT ALL PRIVILEGES ON librenms.* TO 'librenmsuser'@'localhost';  
FLUSH PRIVILEGES;  
exit
```

??Nginx

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

```
server {  
    listen 80;  
    server_name librenms.example.com;  
    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_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
        fastcgi_param PATH_INFO $fastcgi_path_info;
        fastcgi_pass unix:/run/php-fpm-librenms.sock;
        fastcgi_split_path_info ^(.+\.php)(/.+)$;
        include fastcgi_params;
    }
    location ~ /\.(!well-known).* {
        deny all;
    }
}

```

```

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

systemctl enable nginx
systemctl restart nginx

```

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

```

?????

```

cp /opt/librenms/dist/librenms.cron /etc/cron.d/librenms

```

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```
cp /opt/librenms/dist/librenms-scheduler.service /opt/librenms/dist/librenms-scheduler.timer  
/etc/systemd/system/
```

```
systemctl enable librenms-scheduler.timer  
systemctl start librenms-scheduler.timer
```

Copy logrotate config

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

[[http://ip[[[[[[[[[[[[[[[[[[[[[[

```
cd /opt/librenms
```

```
su librenms
```

```
./validate.php
```

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