

# Wikimedia Server(LNMP) Setup

Wikimedia Server(LNMP) Setup

To setup the LNMP, install the following packages

Nginx  
MySQL  
PHP

## Nginx

- yum install nginx -y
- nginx -v

nginx version: nginx/1.14.1

## MySQL

- yum install mysql56-server -y
- mysql -V

mysql Ver 14.14 Distrib 5.6.44, for Linux (x86\_64) using EditLine wrapper

mysql -u root

```
UPDATE mysql.user SET Password=PASSWORD('*****') WHERE User='root';
```

```
CREATE USER 'test_user'@'localhost' IDENTIFIED BY '*****';
```

```
SELECT User,Host FROM mysql.user;
```

```
GRANT CREATE ON . TO 'test_user'@'localhost' WITH GRANT OPTION;
```

```
CREATE DATABASE mediawiki_db;
```

```
UPDATE mysql.user SET user='wiki_user', password=PASSWORD('*****') WHERE user='test_user';
```

```
FLUSH PRIVILEGES;
```

```
CREATE USER 'wiki_user'@'localhost' IDENTIFIED BY 'Test123!';
```

```
SELECT User,Host FROM mysql.user;
```

```
GRANT CREATE ON . TO 'wiki_user'@'localhost' WITH GRANT OPTION;
```

## PHP

- yum install php71-fpm.x86\_64
- yum install php71-mysqlnd.x86\_64
- yum install php71-odbc.x86\_64

- php -v

PHP 7.1.29 (cli) (built: May 24 2019 21:18:32) ( NTS )

Copyright (c) 1997-2018 The PHP Group

Zend Engine v3.1.0, Copyright (c) 1998-2018 Zend Technologies

## MediaWiki

Run the following commands to install the mediawiki package

- wget <https://releases.wikimedia.org/mediawiki/1.24/mediawiki-1.24.2.tar.gz>
- tar -zxpvf mediawiki-1.24.2.tar.gz
- mv mediawiki-1.24.2 /var/www/html/mediawiki
- chown -R nginx:nginx /var/www/html/mediawiki/
- chmod 755 /var/www/html/mediawiki/

1.

- a. Configure NGINX (see below)
 

```
$ sudo nano /etc/nginx/conf.d/default.conf
server {
    listen 80;
    listen [::]:80;
    server_name localhost;
    location /mediawiki/ {
        root /var/www/html;
        index index.php index.html index.htm;
        fastcgi_pass unix:/var/run/php-fpm/php-fpm.sock;
        fastcgi_index index.php;
        fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
        include fastcgi_params;
    }
}
```

 Comment the line as below in /etc/nginx/nginx.conf under server block
 

```
#server_name localhost;
location ~ \.php$ {
    root html;
    fastcgi_pass 127.0.0.1:9000;
    fastcgi_index index.php;
    fastcgi_param SCRIPT_FILENAME /scripts$fastcgi_script_name;
    include fastcgi_params;
}
```
- b. Configure PHP-FPM (see below)
 

```
$ sudo nano /etc/php-fpm.d/www.conf
```
- c. Config associated with PHP-FPM version 7.1
- d. Comment out the following entries (with 🚫)
 

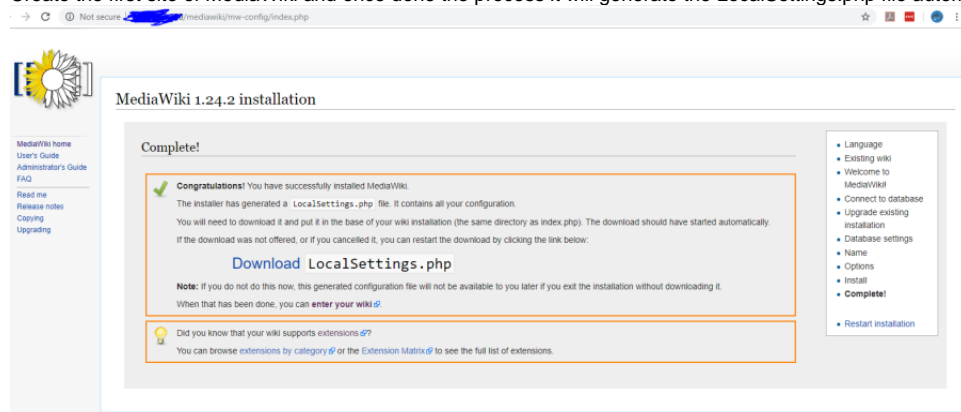
```
;listen.acl_users = apache,nginx
;listen.owner = nobody
;listen.group = nobody
;listen.mode = 0666
;user = apache
;group = apache
```
- e. Add the following values instead
 

```
;listen = /var/run/php-fpm/php-fpm.sock
;listen.owner = nginx
;listen.group = nginx
listen.mode = 0660
user = nginx
group = nginx
```

Access the MediaWiki in browser as below with the machine hostname



Select the languages and give the database details as per installed db in linux machine and select storage as InnoDB. Create the first site of MediaWiki and once done the process it will generate the LocalSettings.php file automatically to our downloads.



Keep the LocalSettings.php file in both the /var/www/html/mediawiki/ & /usr/share/nginx/html/mediawiki/ locations.  
Restart the nginx & php-fpm to load the content in browser as below

