

LEMP Linux Nginx MySQL

CentOS

7 Linux Nginx MySQL PHP LEMP

LEMP	Web	PHP	Linux	ENginx Web	LAM
MariaDB	CentOS 7	PHP 7.4 LEMP	MariaDB	MySQL	

CentOS 7 1-4

1 — Nginx

Nginx Nginx EPEL CentOS 7

CentOS 7 EPEL

```
1. sudo yum install epel-release
```

??

Since we are using a `sudo` command, these operations get executed with root privileges. It will ask you for your regular user's password to verify that you have permission to run commands with root privileges. You'll also be prompted to confirm installation, so press `[Y]` to proceed.

```
[yum] EPEL Nginx
```

```
1. sudo yum install nginx
```



Nginx

1. `sudo systemctl start nginx`



IP

IP

Open in a web browser:

```
http://server_domain_name_or_IP/
```

CentOS 7 Nginx

CentOS 7 Nginx

Image not found or type unknown

Web

Nginx

1. `sudo systemctl enable nginx`



IP

IP

SSH

```
iproute2
```

1. `ip addr show eth0 | grep inet | awk '{ print $2; }' | sed 's/\/.*$//'`



IP

1. curl http://icanhazip.com

??

IP

2 — MariaDB

Web

MySQL

MariaDB

MariaDB MySQL

yum

1. sudo yum install mariadb-server mariadb

??

MariaDB

1. sudo systemctl start mariadb

??

MariaDB

1. sudo mysql_secure_installation

??

root MariaDB

Maria root Y

MariaDB

mysql_secure_installation prompts:

Enter current password for root (enter for none):

```
OK, successfully used password, moving on...
```

```
Setting the root password ensures that nobody can log into the MariaDB
root user without the proper authorisation.
```

```
Set root password? [Y/n] y
New password:
Re-enter new password:
Password updated successfully!
Reloading privilege tables..
... Success!
```

“ENTER”

MySQL

MariaDB

```
1. sudo systemctl enable mariadb
```

??

3 — PHP

PHP

MySQL

Web

CentOS 7

PHP

Remi

CentOS

CentOS 7

CentOS 7 Remi

```
1. sudo yum install http://rpms.remirepo.net/enterprise/remi-release-7.rpm
```

??

PHP

Remi

PHP 7+

```
1. yum --disablerepo="*" --enablerepo="remi-safe" list php[7-9][0-9].x86_64
```

??

Output

```
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * remi-safe: mirrors.ukfast.co.uk
Available Packages
php70.x86_64                                2.0-
1.el7.remi                                remi-safe
php71.x86_64                                2.0-
1.el7.remi                                remi-safe
php72.x86_64                                2.0-
1.el7.remi                                remi-safe
php73.x86_64                                2.0-
1.el7.remi                                remi-safe
php74.x86_64                                1.0-
3.el7.remi                                remi-safe
php80.x86_64                                1.0-
3.el7.remi                                remi-safe
```

PHP 7.4 PHP Remi PHP 7.4

1. sudo yum-config-manager --enable remi-php74

??

[yum] PHP Nginx PHP 7.4 MySQL

1. sudo yum install php php-mysqlnd php-fpm

??

PHP

1. php --version

??

Output

```
PHP 7.4.5 (cli) (built: Apr 14 2020 12:54:33) ( NTS )
Copyright (c) The PHP Group
Zend Engine v3.4.0, Copyright (c) Zend Technologies
```

PHP nano vi CentOS

1. sudo yum install nano

??

nano /etc/php-fpm.d/www.conf

1. sudo nano /etc/php-fpm.d/www.conf

??

user group nano CTRL + W

/etc/php-fpm.d/www.conf

```
...
; Unix user/group of processes
; Note: The user is mandatory. If the group is not set, the default user's group
;       will be used.
; RPM: apache user chosen to provide access to the same directories as httpd
user = apache
; RPM: Keep a group allowed to write in log dir.
group = apache
...
```

user group apache tonginx

/etc/php-fpm.d/www.conf

...

```
; RPM: apache user chosen to provide access to the same directories as httpd
user = nginx
; RPM: Keep a group allowed to write in log dir.
group = nginx
...
```

```
listen | php-fpm | T | listen |
```

/etc/php-fpm.d/www.conf

```
listen = /var/run/php-fpm/php-fpm.sock;
```

Finally, we'll need to change the owner and group settings for the socket file we just defined within the `listen` directive. Locate the `listen.owner`, `listen.group` and `listen.mode` directives. These lines are commented out by default. Uncomment them by removing the preceding `;` sign at the beginning of the line. Then, change the owner and group to `nginx`:

/etc/php-fpm.d/www.conf

```
listen.owner = nginx
listen.group = nginx
listen.mode = 0660
```

```
nano | CTRL + X | Y | ENTER |
```

```
php-fpm |
```

1. `sudo systemctl start php-fpm`

??

PHP `php-fpm` PHPNginx

4 — Nginx PHP

Nginx PHP

Nginx

Apache

`/etc/nginx/nginx.conf` PHP

`/etc/nginx/conf.d`

1. sudo nano /etc/nginx/conf.d/default.conf

??

`server_name` IP

/etc/nginx/conf.d/default.conf

```
server {
    listen      80;
    server_name server_domain_or_IP;

    root    /usr/share/nginx/html;
    index index.php index.html index.htm;

    location / {
        try_files $uri $uri/ =404;
    }
    error_page 404 /404.html;
    error_page 500 502 503 504 /50x.html;

    location = /50x.html {
        root /usr/share/nginx/html;
    }

    location ~ \.php$ {
        try_files $uri =404;
        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;
    }
}
```

Nginx

1. sudo systemctl restart nginx

??

PHP Nginx

5 — Web PHP

`\php-fpm`

`.php`

Nginx

Nginx

sudo

sammy

1. `sudo chown -R sammy:sammy /usr/share/nginx/html/`

??

PHP

Web

`/usr/share/nginx/html/info.php` PHP

1. `nano /usr/share/nginx/html/info.php`

??

PHP

PHP

`/usr/share/nginx/html/info.php`

```
<?php
```

```
phpinfo();
```

??

`/info.php`

PHP

IP

`http://server_host_or_IP/info.php`

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PHP `rm` PHP CentOS

```
1. rm /usr/share/nginx/html/info.php
```



PHP `php-fpm` PHP Nginx WebMariaDB PHP Nginx

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