

How to upgrade PHP to 8.1 in Ubuntu

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How to upgrade PHP to 8.1 in Ubuntu?

Prerequisites

Any installed PHP version with apache and nginx web server.

Enter the following commands on the terminal to upgrade PHP:

1 . To install the latest **PHP 8.1**, you need to install PHP 8 binary packages that are available in the Ondrej Sury PPA repository.

```
root@gateway:~# add-apt-repository ppa:ondrej/php
```

Press ENTER to add the repository.

2. Install PHP 8.1

```
root@gateway:~# apt-get update
```

```
root@gateway:~# apt-get install php8.1
```

~~3. Now install PHP 8.1 with all necessary modules with the command below~~
root@gateway:~# apt install php8.1-cli php8.1-xml php8.1-gd
php8.1-curl php8.1-mysql php8.1-ldap php8.1-zip

4. Restart Apache2

```
root@gateway:~# systemctl restart apache2
```

~~modules for 8.1 version~~
modules for 8.1 version PHP modules whichever you are running and enable the

```
root@gateway:~# a2dismod php* ( eg: a2dismod php7.4 )
```

```
root@gateway:~# a2enmod php8.1
```

6. Restart the Apache2 service.

```
root@gateway:~# systemctl restart apache2
```

```
PHP 8.1.13 (cli) (built: Nov 26 2022 14:07:36) (NTS)
Copyright (c) The PHP Group
Zend Engine v4.1.13, Copyright (c) Zend Technologies
with Zend OPcache v8.1.13, Copyright (c), by Zend Technologies
```

1. Update and upgrade your system packages.

```
root@gateway:~# apt-get update -y
```

```
root@gateway:~# apt-get upgrade -y
```

2. Allow apt to use the system repository

```
root@gateway:~# apt install ca-certificates apt-transport-https
```

```
root@gateway:~# apt install software-properties-common
```

3. You need to install PHP 8 binary packages that are available in the Ondrej Sury PPA repository.

```
root@gateway:~# add-apt-repository ppa:ondrej/php
```

4. Install PHP 8/ 8.1 with nginx.

Press ENTER when prompted while adding the repository.

```
root@gateway:~# apt install php8.1 php8.1-fpm
```

```
root@gateway:~# systemctl status php8.1-fpm
```

5. For Nginx to process PHP files, configure your Nginx server block by updating/adding the server block.

```
root@gateway:~# nano /etc/nginx/sites-available/example
```

```
server {
listen 80;
server_name 192.168.0.105;
root /var/www/html;
index info.php;

location ~ .php$ {
include snippets/fastcgi-php.conf;
fastcgi_pass unix:/run/php/php8.1-fpm.sock;
}
}
```

6. Restart the Nginx service.

```
root@gateway:~# systemctl restart nginx
```

7. Install the php8.1 needed packages.

```
root@gateway:~# apt install php8.1-cli php8.1-xml php8.1-gd  
php8.1-curl php8.1-mysql php8.1-ldap php8.1-zip
```

```
PHP 8.1.18 (cli) (built: Apr 14 2023 04:39:24) (NTS)  
Copyright (c) The PHP Group  
Zend Engine v4.1.18, Copyright (c) Zend Technologies  
with Zend OPcache v8.1.18, Copyright (c), by Zend Technologies
```

To check installed version of PHP and set the needed PHP version

```
root@ubuntu:~# update-alternatives --config php
```

Testing PHP

```
root@gateway:~# php -v
```

```
root@gateway:~# nano /var/www/html/info.php
```

```
<?php
```

```
phpinfo( );
```

```
?>
```



System	Linux ubuntu 5.4.0-42-generic #46-Ubuntu SMP Fri Jul 10 00:24:02 UTC 2020 x86_64
Build Date	Feb 14 2023 18:32:57
Build System	Linux
Server API	FPM/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/8.0/fpm
Loaded Configuration File	/etc/php/8.0/fpm/php.ini
Scan this dir for additional .ini files	/etc/php/8.0/fpm/conf.d
Additional .ini files parsed	/etc/php/8.0/fpm/conf.d/10-opcache.ini, /etc/php/8.0/fpm/conf.d/10-pdo.ini, /etc/php/8.0/fpm/conf.d/20-calendar.ini, /etc/php/8.0/fpm/conf.d/20-ctype.ini, /etc/php/8.0/fpm/conf.d/20-exif.ini, /etc/php/8.0/fpm/conf.d/20-fli.ini, /etc/php/8.0/fpm/conf.d/20-fileinfo.ini, /etc/php/8.0/fpm/conf.d/20-ftp.ini, /etc/php/8.0/fpm/conf.d/20-gettext.ini, /etc/php/8.0/fpm/conf.d/20-iconv.ini, /etc/php/8.0/fpm/conf.d/20-phar.ini, /etc/php/8.0/fpm/conf.d/20-posix.ini, /etc/php/8.0/fpm/conf.d/20-readline.ini, /etc/php/8.0/fpm/conf.d/20-shmop.ini, /etc/php/8.0/fpm/conf.d/20-sockets.ini, /etc/php/8.0/fpm/conf.d/20-sysvmsg.ini, /etc/php/8.0/fpm/conf.d/20-sysvsem.ini, /etc/php/8.0/fpm/conf.d/20-sysvshm.ini, /etc/php/8.0/fpm/conf.d/20-tokenizer.ini
PHP API	20200930
PHP Extension	20200930
Zend Extension	420200930
Zend Extension Build	API420200930,NTS
PHP Extension Build	API20200930,NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	enabled
Zend Memory Manager	enabled
Zend Multibyte Support	disabled
IPv6 Support	enabled
DTrace Support	available, disabled
Registered PHP Streams	https, ftps, compress.zlib, php, file, glob, data, http, ftp, phar
Registered Stream Socket Transports	tcp, udp, unix, udg, ssl, tls, tlsv1.0, tlsv1.1, tlsv1.2, tlsv1.3
Registered Stream Filters	zlib.*, string.rot13, string.toupper, string.tolower, convert.*, consumed, dechunk, convert.iconv.*

Online URL: <https://www.ezeelogin.com/kb/article/how-to-upgrade-php-to-8-1-in-ubuntu-562.html>