

How to upgrade PHP to 8.1 in Ubuntu

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How to upgrade PHP to 8.1 in Ubuntu?

Overview: This article provides the step to upgrade the PHP version.

Prerequisites: Any installed PHP version with apache and nginx web server.

Enter the following commands on the terminal to upgrade PHP version:

Step 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.

Step 2: Install PHP 8.1

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

Step 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

Step 4: Restart Apache2

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

Step 5: Disable the version version PHP modules whichever you are running and enable

```
root@gateway:~# a2dismod php* ( eg: a2dismod php7.4 )  
root@gateway:~# a2enmod php8.1
```

Step 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
```

To run your PHP 8.1 on your Linux web server

Step 1: Update and upgrade your system packages.

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

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

Step 2: Allow apt to use the system repository.

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

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

Step 3: Repository to install PHP 8 binary packages that are available in the Ondrej Sury

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

Step 4: Install PHP 8.1 with mymix.

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

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

Step 5: Configuration: to process PHP files, configure your Nginx server block by updating/adding

```
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;  
}  
}
```

Step 6: Restart the Nginx service

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

Step 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@gateway:~# update-alternatives --config php
```

To confirm the PHP version:

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

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

```
<?php  
  
phpinfo();  
  
?>
```

PHP Version 8.0.28



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-ffi.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.*

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[Correct PHP time in different G.S.](#)

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