

# Howto Compile PHP 5.3.x

## Introduction

This howto explain how to compile and install PHP5.3.x on Debian, to be run as a FastCGI application (Fcgid). This howto also explain how to register this PHP version through the [PhpSwitcher](#) plugin.

## Creating build environment

```
# cd /usr/local/src
# mkdir -p php_buildenv/php53 && cd php_buildenv/php53
# apt-get update && apt-get install build-essential
```

## Installing needed libraries

```
# apt-get build-dep php5
# apt-get install libfcgi-dev libfcgi0ldbl libjpeg62-dbg libmcrypt-dev \
libssl-dev libc-client2007e libc-client2007e-dev libpq5
```

### Needed on X86\_64 arch only

```
# ln -s /usr/lib/libc-client.a /usr/lib/x86_64-linux-gnu/libc-client.a
```

## Fetching PHP sources

```
# wget http://de.php.net/get/php-5.3.28.tar.bz2/from/this/mirror -O
php.tar.bz2
# tar xjf php.tar.bz2
# cd php-5.3.28
```

## Configuration

**The configuration options below are for the X86\_64 architecture. option for the i386 architecture will be added later.**

```
# ./configure \  
--prefix=/opt/php-fcgid/5.3 \  
--with-config-file-scan-dir=/opt/php-fcgid/5.3/conf.d \  
--with-pdo-pgsql \  
--with-zlib-dir \  
--with-freetype-dir \  
--enable-mbstring \  
--with-libxml-dir=/usr \  
--enable-soap \  
--enable-calendar \  
--with-curl \  
--with-mcrypt \  
--with-zlib \  
--with-gd \  
--with-pgsql \  
--disable-rpath \  
--enable-inline-optimization \  
--with-bz2 \  
--with-zlib \  
--enable-sockets \  
--enable-sysvsem \  
--enable-sysvshm \  
--enable-pcntl \  
--enable-mbregex \  
--enable-exif \  
--enable-bcmath \  
--with-mhash \  
--enable-zip \  
--with-pcre-regex \  
--with-mysql=mysqlnd \  
--with-pdo-mysql=mysqlnd \  
--with-mysqli=mysqlnd \  
--with-mysql-sock=/var/run/mysqld/mysqld.sock \  
--with-jpeg-dir=/usr \  
--with-png-dir=/usr \  
--enable-gd-native-ttf \  
--with-openssl \  
--with-libdir=/lib/x86_64-linux-gnu \  
--enable-ftp \  
--with-imap \  
--with-imap-ssl \  
--with-kerberos \  
--with-gettext \  
--with-xmlrpc \  
--with-xsl \  
--enable-cgi
```

**Note:** If you need more modules, you must tune the configuration options and install needed libraries.

**Note for i386 architecture:** Try the configuration with changing the configure line:

```
--with-libdir
```

to:

```
--with-libdir=/lib/i386-linux-gnu \
```

or what you may find in your /lib folder.

## Compilation and installation

```
# make  
# make install
```

## Checking

Test your php binary by running the following command:

```
# /opt/php-fcgid/5.3/bin/php-cgi -v
```

which should give a result such as:

```
PHP 5.3.28 (cgi-fcgi) (built: Feb 20 2014 18:02:14)  
Copyright (c) 1997-2013 The PHP Group  
Zend Engine v2.3.0, Copyright (c) 1998-2013 Zend Technologies
```

## Registration through PhpSwitcher

1. Login into the panel as administrator and go to the PhpSwitcher interface (settings section)
2. Create a new PHP version with the following parameters:

Parameter	Value	Description
Name	PHP5.3 (Fcgid)	This is the unique name for the new PHP version
PHP binary path	/opt/php-fcgid/5.3/bin/php-cgi	This is the path of the PHP binary
PHP configuration directory	/var/www/fcgi	This is the directory in which customers's PHP configuration files are stored

Once it's done and if all goes well, your customers should be able to switch to this new PHP version using their own PhpSwitcher interface, which is available in the **Domains** section.

## Troubleshootings

If you are running MariaDB on your server and if you encounter some problems while trying to install PHP build packages, you must temporary switch to the MySQL version as provided by your distribution. This can be done easily by using the i-MSCP installer.

The tips about MariaDB above is a quick solution. A better alternative must be found.

From:  
<https://wiki.i-mscp.net/> - **i-MSCP Documentation**

Permanent link:  
<https://wiki.i-mscp.net/doku.php?id=plugins:phpswitcher:fcgid:php5.3&rev=1395405938>

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