



EasyApache 3
Introduction
By
Kenneth Power



What?

- » EasyApache – Then and Now
- » Standard Usage
- » Advanced Usage



EasyApache – Then and Now

Then: EasyApache 1.5

»» 64-bit support

»» 3rd Party integration

»» Many issues resolved



Design Goals



Don't Break the System

»» Only install successful build

»» Test before and after build



Simplify Propagation

» Profiles

» Automation



Intelligent Updates

»» Integrating new releases

»» System Upgrades



Recap

- »» Don't break the system
- »» Simplify propagation
- »» Intelligent Updates

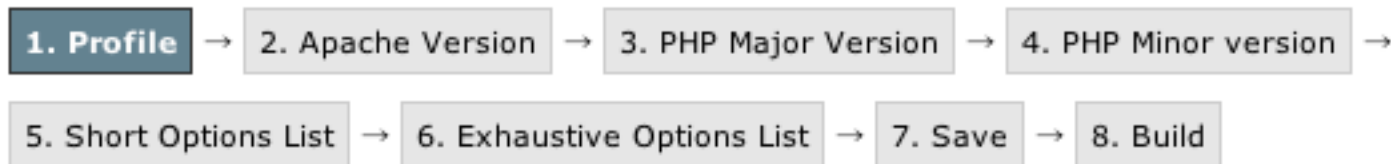


Using EasyApache



Standard Usage

Easy::Apache v3.2.0 Build 4183





Standard Usage

[\[Help\]](#) [\[Upload Profile\]](#) [\[About Profiles\]](#) [\[Build Log Manager\]](#) [\[Archives/Backups\]](#)



Standard Usage: Log Manager

Easy Apache Log Manager

- Check/Uncheck All
- Mon May 5 14:26:04 2008 (1210015564) [[Download](#)] [[View](#)]
- Mon May 5 14:31:50 2008 (1210015910) [[Download](#)] [[View](#)]
- Mon May 5 15:45:26 2008 (1210020326) [[Download](#)] [[View](#)]
- Mon May 5 15:50:07 2008 (1210020607) [[Download](#)] [[View](#)]



Standard Usage

Welcome to Easy::Apache v3.2.0 Build 4183

This tool will guide you through the available options for updating your Apache web server, PHP, and optional modules. [[Read the documentation for further information](#)]

! Before using EasyApache please be sure to read over the documentation. To avoid losing custom modifications to your apache configuration, you will need to move them to include files that the new configuration system uses. For more specific information on includes please visit [this page](#).



Standard Usage

Begin by selecting a profile to load:

- Previously Saved Config (** DEFAULT **) [[Hide Info](#)]
↑ This option loads the last saved configuration. If the configuration is missing, then default values will be provided.

[\[Click here to view details\]](#) [\[Raw\]](#) [\[Download profile\]](#) [\[About Profiles\]](#)

- Basic (If your previous build has failed, please use this option) [[More Info](#)]
- No PHP [[More Info](#)]
- PHP Encryption / E-commerce [[More Info](#)]
- PHP Encryption and Image Manipulation [[More Info](#)]
- PHP Image Manipulation [[More Info](#)]
- PHP Security [[More Info](#)]

[Build Profile Now](#)

or

[Start customizing based on profile](#)



Standard Usage :: Apache Version

Your profile has **Apache 2** chosen to build.
Your currently running apache is **Apache 2**.

Please choose which apache to build:

Apache 1.3 [[More Info](#)]

Apache 2.0 [[Hide Info](#)]

↑ Apache gone modular, everything can be compiled as a module. Improved multi-threading support. Not recommended for PHP 4.

Apache 2.2 [[More Info](#)]

[Next Step](#)



Standard Usage :: PHP Major

For more information about PHP configuration, capabilities, and limitations please see <http://www.php.net>.

You currently have PHP **5** installed.

The [EasyApache 3 documentation](#) contains detailed information about installing PHP 4 and 5 simultaneously.

You can customize how PHP pages are served after the build by running the `/usr/local/cpanel/bin/rebuild_phpconf` script or in the WebHostManager under Service Configuration >> [Configure PHP and Suexec](#)

Please choose which main PHP versions (if any) to build::

PHP 4 [[More Info](#)]

PHP 5 [[Hide Info](#)]

↑ *The current as recommended by the PHP Project. Performance and Security improvements over PHP 4.x*

[Next Step](#)



Standard Usage :: PHP Minor

You currently have PHP **5.2.6** installed.

Please choose which specific PHP version(s) to build:

PHP 5 [[More Info ↑](#)]

- 5.2.3
- 5.2.4
- 5.2.5
- 5.2.6

[Next Step](#)



Standard Usage :: PHP Minor

You currently have PHP **5.2.6** installed.

Please choose which specific PHP version(s) to build:

PHP 4 [[More Info](#) ↑]

- 4.4.5
- 4.4.6
- 4.4.7
- 4.4.8

PHP 5 [[More Info](#) ↑]

- 5.2.3
- 5.2.4
- 5.2.5
- 5.2.6

[Next Step](#)



Standard Usage :: Short Options

Please choose specific options:

Frontpage [[More Info ↑](#)]

Mod SuPHP [[More Info ↑](#)]

This option will make the following changes to your profile prior to the build:

Enables:

CGI (PHP v4)

CGI (PHP v5)

EAccelerator for PHP [[More Info ↑](#)]

v0.9.5.2 - caches compiled PHP pages ONLY when running in a persistent (DSO/FCGID) manner

IonCube Loader for PHP [[More Info ↑](#)]

3.1.32 - please read documentation that can found by clicking "More Info" to fully understand this option



Standard Usage :: Exhaustive List

Apache Built-in Modules

Options in **this color** are enabled by default in Apache. That means that you won't see anything added to Apache's configure line unless it is unchecked.

Imagemap [[More Info ↑](#)]

Options in **this color** are enabled by default in php 5.2.6. That means that you won't see anything added to php's configure line unless it is unchecked.

CGI [[More Info ↑](#)]



Standard Usage :: Exhaustive List

Save my profile with appropriate PHP 5 options set so that it is compatible with cpphp

This option will make the following changes to your profile prior to the build:

Enables:

- CurLSSL
- FTP
- GD
- Gettext
- Imap
- Mbstring
- Mysql
- Mysql of the system
- PGsql
- Sockets
- Zlib

Disables:

Iconv



Standard Usage :: Preferences

Preferences

- Always do latest PHP (forces newest minor version of any major versions chosen)
- Archive Backup (this session only)
- After each "post restart" test check that apache is still running
- If httpd.conf generation fails or apache can not be restarted after conf generation, leave build in-place so I can manually resolve httpd.conf issues.
- Report Errors to cPanel
- Reset Apache Config to default - any customizations will be lost (this session only)

[Back to top](#)



Standard Usage :: Save Profile

Save selections as custom profile (optional)

Tip:

When you "save" your choices in this interface it is referred to as the "Previously Saved Config". Here, you can additionally "Save As" a specific name for reuse.

File name

(Maximum 64 letters, numbers, and underscores only)

Display Name

Description



Getting more from EA3

More than the GUI

»» /scripts/easyapache

»» Software >> Apache Update



`/scripts/easyapache --help`



/scripts/easyapache --help

- General
- Preferences
- Development and Testing



General

»» --version

»» --latest-versions

»» --show-apache-defaults

»» --profile

»» --build

»» --skip-cpanel-version-check



General: --version

```
root@f9 [~]# /scripts/easyapache --version  
Easy::Apache v3.2.0 Build 4110
```

```
[cpanel]  
11.18.3-RELEASE_21703
```

```
[apache]  
Server version: Apache/2.2.8 (Unix)  
Server built: Apr 16 2008 15:01:42  
Cpanel::Easy::Apache v3.2.0 rev4108
```

```
[server]  
Linux f9.cpanel.com 2.6.25-0.218.rc8.git7.fc9.i686 #1 SMP Wed Apr 9 20:35:56 EDT  
2008 i686 athlon i386 GNU/Linux
```



General: --latest-versions

```
root@f9 [~]# /scripts/easyapache --latest-versions  
Easy::Apache v3.2.0 Build 4110
```

[Apache]

1.3.41, 2.0.63, 2.2.8

[PHP 4]

4.4.5, 4.4.6, 4.4.7, 4.4.8

[PHP 5]

5.2.2, 5.2.3, 5.2.4, 5.2.5



General: --show-apache-defaults

```
root@f9 [~]# /scripts/easyapache --show-apache-defaults
Easy::Apache v3.2.0 Build 4110
```

Using a cPanel profile (with no changes in the UI or manually) the following modules are built for Apache by default:

[1.3]

```
Compiled in (IE /usr/local/apache/bin/httpd -l)
  http_core.c
  mod_env.c
  mod_log_config.c
  mod_mime.c
  mod_negotiation.c
```

...

[2.0]

```
Compiled in (IE /usr/local/apache/bin/httpd -l)
  core.c
  mod_access.c
```

...

[2.2]

```
Compiled in (IE /usr/local/apache/bin/httpd -l)
```

...



General: --profile

```
--profile=profile_name
```

'profile_name' is one of:

a) absolute path to yaml file to use as profile

b) name relative to /var/cpanel/easy/apache/profile/custom/ without

the .yaml extension

These would all be the same profile:

```
--profile=cpanel_no_php
```

```
--profile=cpanel_no_php.yaml
```

```
--profile=/var/cpanel/easy/apache/profile/custom/cpanel_no_php.yaml
```



General: --build

--build

Skip configuration and go straight to the build.

It builds 'last saved' profile if none specified with --profile.

If there is not last saved profile it used cpanel_default

```
/scripts/easyapache --profile=/srv/profiles/standard.yaml --build
```



General: --skip-cpanel-version-check

Interactive

»» Bypass update dialog



Preferences

➤➤ --do_not_revert_on_conf_failure

➤➤ --always_do_the_latest_phps



Preferences: --do not revert....

Design Goal:

Do not break the system

Syntax error deemed fatal



Preferences: --always-do-the-latest-phps

Ensures newest version of PHP is built

» Allows updating without UI

Current Profile:

PHP 5.2.5

--latest-versions reports 5.2.6 available

```
/scripts/easyapache --profile=/srv/profiles/standard.yaml --  
build --always-do-the-latest-phps
```



Development and Testing

»» --debug

»» --output-syspkg-details



Development: --debug

```
!! DEBUG: Package 'Cpanel::Easy::Utils' calling 'Cpanel::Easy::Utils::Pr
362' at mark '1211208885' with argument list of:
    "argument list" N/A for this debug() !!
!! Found old IMAP library at /usr/lib/libc-client.so.1 !!
!! DEBUG: Package 'Cpanel::Easy::Utils' calling 'Cpanel::Easy::Utils::Pr
383' at mark '1211208885' with argument list of:
    "argument list" N/A for this debug() !!
!! Could not remove obsolete IMAP libraries. They will be hidden during
```



Development: --output-syspkg- details

```
checking that all packages are present and up to date  
!! ensure() system was '/scripts/ensurepkg zlib1-devel expat-devel get  
bstdc++ zlib bison autoconf261 gmake libstdc++-devel openssl-devel aut  
tdc++-dev libz-devel libltdl libltdl3-devel libopenssl0.9.7-static-dev  
ed lsof krb5-dev flex glibc-dev expat-dev krb5-devel glib20 libtool-lt  
autoconf' !!
```



WHM?



Standard Usage

[\[Help\]](#) [\[Upload Profile\]](#) [\[About Profiles\]](#) [\[Build Log Manager\]](#) [\[Archives/Backups\]](#)



Easy::Apache Help

Below are some additional tools and options you might find useful.
Detailed EasyApache documentation can be found [here](#).

[Report version info of ea3, cpanel, and apache]

[List latest version of Apache, PHP, etc that this installs]

[Show default apache module information]

[Cpanel::Easy Framework POD]

- Do not check to see that the server's cPanel is the latest available
- Include detailed debug data in output
- Output debug information about calculating the profile `_meta->revision` key
- Use test branch
- Do not use raw opts support
- Do not use raw env support
- Output details about Cpanel::SysPkgs calls
- Turn on stack trace in clog messages
- Include process profile data in output

Submit



Not Persistent



WHM: Preferences

Preferences

- Always do latest PHP (forces newest minor version of any major versions chosen)
- Archive Backup (this session only)
- After each "post restart" test check that apache is still running
- If httpd.conf generation fails or apache can not be restarted after conf generation, leave build in-place so I can manually resolve httpd.conf issues.
- Report Errors to cPanel
- Reset Apache Config to default - any customizations will be lost (this session only)

[Back to top](#)



Updating PHP

```
/scripts/easyapache --profile=/srv/profiles/standard.yaml --  
build --always-do-the-latest-phps
```

```
/scripts/phpup - update PHP to the latest  
  --help          - this screen  
  --force         - rebuild PHP even if its already the  
latest  
  --dryrun       - don't actually do anything just report  
what would be done  
  --only-do=[4|5] - only work with PHP 4 or PHP 5
```



Updating suPHP

```
/scripts/suphpup - update suPHP to the latest
  --help           - this screen
  --force          - rebuild suPHP even if its already the
latest
  --dryrun         - don't actually do anything just report
what would be done
  --verbose        - don't hide any output
  --version        - show version info and exit
```



Remaining EA3 Presentations

» Build

» Configuration

» PHP



Questions?