

# How to Set Up (PHP) Composer

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#### Warning:

cPanel support does **not** provide assistance with the instructions in this document.

## Overview

Composer is a dependency and package manager for PHP. For more information about Composer, read the [Composer documentation](#). You can search for packages to download at the [packagist.org](#) website.

#### Notes:

- Your cPanel account **must** possess SSH access in order to use Composer.
- We added Composer in cPanel & WHM version 58.

## How to set up Composer

In order to use Composer, you **must** install several PHP modules. You must also verify that you have properly configured your server's `php.ini` file to allow Composer to run.

By default, when you call Composer, it **only** uses the server's `php.ini` file. The system stores this file in the `/opt/cpanel/ea-*/root/etc/php.ini` location.

## Required PHP modules

#### Note:

You **must** perform these steps as the `root` user.

To use Composer, you **must** enable several PHP modules in EasyApache. For more information about EasyApache 4, read our [EasyApache documentation](#).

PHP Module	Description
Phar	This module provides a way to store entire PHP applications into a single "phar" file (PHP Archive) for easy distribution and installation.  <b>Note:</b> EasyApache4 installs this module by default.

Iconv	<p>This module provides a Character Set Conversion</p> <div style="border: 1px solid #f0e68c; padding: 5px;"> <p><b>Note:</b> If you install this module, the <code>MBstring</code> module is <b>not</b> required.</p> </div>
Mbstring	<p>This module provides enhanced Chinese, Japanese, and other language support.</p> <div style="border: 1px solid #f0e68c; padding: 5px;"> <p><b>Note:</b> If you install this module, the <code>Iconv</code> module is <b>not</b> required.</p> </div>

## Required PHP directives

You **must** update the following PHP directives in the `php.ini` file:

**Note:**  
For more information about how to edit your `php.ini` file, read our [How to Edit Your `php.ini` File](#) documentation.

Directive	Required value
<code>allow_url_fopen</code>	On
<code>zend.detect_unicode</code>	Off

**Note:**  
For servers that use PHP version 5.3 and earlier, use the `detect_unicode` directive instead of the `zend.detect_unicode` directive.

## Servers that use Suhosin

If you use Suhosin, you **must** add the Phar PHP module to the Suhosin whitelist in the server's `php.ini` file. Add the following line to your server's `php.ini` file:

```
suhosin.executor.include.whitelist=phar
```

**Note:**  
For more information about how to edit your `php.ini` file, read our [How to Edit Your `php.ini` File](#) documentation.

## What if I cannot edit the `php.ini` file?

If you cannot make changes to the `php.ini` file, you **must** manually run the following command each time you run Composer:

- With Suhosin:

```
php -d allow_url_fopen=1 -d zend.detect_unicode=0 -d
suhosin.executor.include.whitelist=phar $(which composer)
```

- Without Suhosin:

```
php -d allow_url_fopen=1 -d zend.detect_unicode=0 $(which composer)
```

If you use Composer often, you can create a Bash alias to perform this step for you. If you add an alias, you can run the `composer` command without any additional flags or options. Add the following line to your `.bashrc` file to create this alias each time that you log in to the server :

- With Suhosin:

```
alias composer="php -d allow_url_fopen=1 -d zend.detect_unicode=0 -d suhosin.executor.include.whitelist=phar $(which composer) "
```

- Without Suhosin:

```
alias composer="php -d allow_url_fopen=1 -d zend.detect_unicode=0 $(which composer) "
```

## Troubleshoot Composer

### Command not found

If you receive the `command not found` error message, you may need to add the proper path to your account's `.bash_profile` file.

Add the following lines to your account's `.bash_profile` file:

```
source /etc/profile.d/cpanel-php-composer.sh
```

If you experience problems with the `source` option, add the `PATH` option to the `.bash_profile` file instead:

```
PATH=$PATH:/opt/cpanel/composer/bin
```

**Note:**

You **must** log into the server again for any changes to the `.bash_profile` file to take effect.

### The Composer self-diagnostic tool

Composer contains a self-diagnostic tool to ensure that you have properly configured PHP.

Run the diagnostic tool with the following command:

```
composer diagnose
```

The `Checking platform setting` section provides feedback about your server's PHP configuration. It will also inform you of any PHP configuration failures.

The following example demonstrates this section:

```
$ composer diagnose
Checking platform settings: OK
Checking git settings: OK
Checking http connectivity to packagist: Warning: Accessing packagist.org
over http which is an insecure protocol.
OK
Checking https connectivity to packagist: OK
Checking github.com rate limit: OK
Checking disk free space: OK
Checking pubkeys: FAIL
Missing pubkey for tags verification
Missing pubkey for dev verification
Run composer self-update --update-keys to set them up
Checking composer version: FAIL
You are not running the latest stable version, run `composer self-update`
to update (1.1.1 => 1.1.2)
```

## Alternative diagnostic tools

If you require an alternate diagnostic tool, use the diagnostic tool from Composer's Github account. Run the following command:

```
curl
https://raw.githubusercontent.com/composer/getcomposer.org/master/web/installer | php -- --check
```

This utility only checks the server's PHP configuration, as in the following example:

```
# curl
https://raw.githubusercontent.com/composer/getcomposer.org/master/web/installer | php -- --check
  % Total    % Received % Xferd  Average Speed   Time    Time     Time
Current                                  Dload  Upload  Total   Spent    Left
Speed
100 286k 100 286k    0    0 466k      0 --:--:-- --:--:-- --:--:--
1002k
All settings correct for using Composer
#
```

## Additional documentation

Suggested documentation [For cPanel users](#) [For WHM users](#) [For developers](#)

- [How to Set Up \(PHP\) Composer](#)
- [Additional Security Software](#)
- [CVE-2016-3714 ImageMagick](#)

- [Third-Party Software End Of Life Policy](#)
- [How to Manually Migrate Accounts to cPanel from Unsupported Control Panels](#)
  
- [Connect to Web Disk with Third-Party Software](#)
- [Third Party Software Guide](#)
- [PHP](#)
  
- [How to Set Up \(PHP\) Composer](#)
- [Additional Security Software](#)
- [CVE-2016-3714 ImageMagick](#)
- [Third-Party Software End Of Life Policy](#)
- [How to Manually Migrate Accounts to cPanel from Unsupported Control Panels](#)
  
- [Guide to Third-Party AutoSSL Provider Modules](#)
- [WHM API 1 Functions - installed\\_versions](#)
- [WHM API 1 Functions - php\\_set\\_vhost\\_versions](#)
- [Guide to the LiveAPI System - LiveAPI Methods](#)
- [Tutorial - Call UAPI's SSL::install\\_ssl Function in Custom Code](#)