## **Step 1 — Installing PHP and Additional Dependencies**

In addition to dependencies that should be already included within your Ubuntu 22.04 system, such as git and curl, Composer requires php-cli in order to execute PHP scripts in the command line, and unzip to extract zipped archives. We’ll install these dependencies now.

First, update the package manager cache by running:

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sudo apt update

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Next, run the following command to install the required packages:

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sudo apt install php-cli unzip

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You will be prompted to confirm installation by typing Y and then ENTER.

Once the prerequisites are installed, you can proceed to installing Composer.

## **Step 2 — Downloading and Installing Composer**

Composer provides an [installer](https://getcomposer.org/installer) script written in PHP. We’ll download it, verify that it’s not corrupted, and then use it to install Composer.

Make sure you’re in your home directory, then retrieve the installer using curl:

Run these commands

1- cd ~

**2- sudo apt update && sudo apt upgrade**

**3- sudo apt install curl**

**4- curl --version**

5- curl -sS https://getcomposer.org/installer -o /tmp/composer-setup.php

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Next, we’ll verify that the downloaded installer matches the SHA-384 hash for the latest installer found on the [Composer Public Keys / Signatures](https://composer.github.io/pubkeys.html) page. To facilitate the verification step, you can use the following command to programmatically obtain the latest hash from the Composer page and store it in a shell variable:

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HASH=`curl -sS https://composer.github.io/installer.sig`

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If you want to verify the obtained value, you can run:

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echo $HASH

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Output

906a84df04cea2aa72f40b5f787e49f22d4c2f19492ac310e8cba5b96ac8b64115ac402c8cd292b8a03482574915d1a8

Now execute the following PHP code, as provided in the Composer [download page](https://getcomposer.org/download/), to verify that the installation script is safe to run:

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php -r "if (hash\_file('SHA384', '/tmp/composer-setup.php') === '$HASH') { echo 'Installer verified'; } else { echo 'Installer corrupt'; unlink('composer-setup.php'); } echo PHP\_EOL;"

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You’ll see the following output:

Output

Installer verified

If the output says Installer corrupt, you’ll need to download the installation script again and double check that you’re using the correct hash. Then, repeat the verification process. When you have a verified installer, you can continue.

To install composer globally, use the following command which will download and install Composer as a system-wide command named composer, under /usr/local/bin:

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sudo php /tmp/composer-setup.php --install-dir=/usr/local/bin --filename=composer

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You’ll see output similar to this:



Output

All settings correct for using Composer

Downloading...

Composer (version 2.3.5) successfully installed to: /usr/local/bin/composer

Use it: php /usr/local/bin/composer

To test your installation, run:

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composer

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Output

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Composer version 2.3.5 2022-04-13 16:43:00

Usage:

command [options] [arguments]

Options:

-h, --help Display help for the given command. When no command is given display help for the list command

-q, --quiet Do not output any message

-V, --version Display this application version

--ansi|--no-ansi Force (or disable --no-ansi) ANSI output

-n, --no-interaction Do not ask any interactive question

--profile Display timing and memory usage information

--no-plugins Whether to disable plugins.

--no-scripts Skips the execution of all scripts defined in composer.json file.

-d, --working-dir=WORKING-DIR If specified, use the given directory as working directory.

--no-cache Prevent use of the cache

-v|vv|vvv, --verbose Increase the verbosity of messages: 1 for normal output, 2 for more verbose output and 3 for debug

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This verifies that Composer was successfully installed on your system and is available system-wide.