# PHP Installation Guide for Windows, macOS, and Linux

## 1. Installing PHP on Windows

### Method 1: Install PHP using XAMPP (Recommended)

- 1. Download XAMPP from https://www.apachefriends.org/download.html.

- 2. Install XAMPP and ensure Apache and MySQL are selected.

- 3. Start Apache and MySQL using the XAMPP Control Panel.

- 4. Verify PHP Installation by creating a PHP file in `C:\xampp\htdocs\info.php` with the following code:

|  |
| --- |
| <?php phpinfo(); ?> |

### Method 2: Install PHP Manually on Windows

- 1. Download PHP from https://windows.php.net/download/.

- 2. Extract the ZIP file to `C:\php`.

- 3. Configure Environment Variables by adding `C:\php` to the System Path.

- 4. Verify Installation using Command Prompt:

|  |
| --- |
| php -v |

## 2. Installing PHP on macOS

### Method 1: Using Homebrew (Recommended)

- 1. Install Homebrew if not installed:

|  |
| --- |
| /bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)" |

### 2. Install PHP:

|  |
| --- |
| brew install php |

### 3. Verify Installation:

|  |
| --- |
| php -v |

### Method 2: Using MAMP (Alternative)

- 1. Download MAMP from https://www.mamp.info/en/downloads/.

- 2. Install and launch MAMP.

- 3. Start the server and verify PHP installation via `http://localhost/MAMP/`.

## 3. Installing PHP on Linux (Ubuntu/Debian)

### Method 1: Using APT Package Manager

- 1. Update the Package List:

|  |
| --- |
| sudo apt update && sudo apt upgrade |

### 2. Install PHP:

|  |
| --- |
| sudo apt install php |

### 3. Verify Installation:

|  |
| --- |
| php -v |

### 4. (Optional) Install PHP Extensions:

|  |
| --- |
| sudo apt install php-cli php-mysql php-curl php-gd php-mbstring php-xml php-zip |

### Method 2: Using LAMP Stack (Apache, MySQL, PHP)

- 1. Install Apache and MySQL:

|  |
| --- |
| sudo apt install apache2 mysql-server |

### 2. Install PHP:

|  |
| --- |
| sudo apt install php libapache2-mod-php php-mysql |

### 3. Restart Apache:

|  |
| --- |
| sudo systemctl restart apache2 |

### 4. Check PHP Info

- Create a file in `/var/www/html/info.php`:

|  |
| --- |
| sudo nano /var/www/html/info.php |

### Add the following content:

|  |
| --- |
| <?php phpinfo(); ?> |

### Open in a browser:

|  |
| --- |
| http://localhost/info.php |