

❏ XAMPP Download & Installation Guide

XAMPP is a free and open-source cross-platform web server solution package developed by Apache Friends, consisting of Apache HTTP Server, MariaDB (MySQL), and interpreters for scripts written in PHP and Perl.

Official Website

Go to the official XAMPP download page:

👉 <https://www.apachefriends.org/index.html>

For Windows Users

✓ Steps:

1. Open your browser and go to:
<https://www.apachefriends.org/index.html>
2. Click on "**XAMPP for Windows**".
3. The .exe setup file (e.g., xampp-windows-x64-8.2.4-0-VS16-installer.exe) will start downloading.

Installation Process:

1. **Double-click** the downloaded file to launch the installer.
2. You may get a **User Account Control (UAC)** prompt — click **Yes**.
3. The XAMPP installer wizard will open — click **Next**.
4. Select components to install (default is fine):
 - Apache ☒
 - MySQL ☒
 - PHP ☒
 - phpMyAdmin ☒
(Leave others unchecked unless needed)
5. Choose installation folder (default: C:\xampp) → Click **Next**.

6. You might be prompted about Bitnami — uncheck the box and click **Next**.
7. Click **Next** again to start the installation.
8. Wait for it to install (~a few minutes), then click **Finish**.

Launching XAMPP:

- The **XAMPP Control Panel** will open.
- Start services:
 - Click **Start** next to **Apache**.
 - Click **Start** next to **MySQL**.

□ If both Apache and MySQL show green, everything is working fine.

For macOS Users

Steps:

1. Visit <https://www.apachefriends.org/index.html>
2. Click on “**XAMPP for macOS**”.
3. A .dmg file will be downloaded.

Installation:

1. Open the .dmg file.
 2. Drag and drop the XAMPP icon into the **Applications** folder.
 3. Open the **XAMPP app** from Applications.
 4. Click on **Manage Servers** → Start **Apache** and **MySQL**.
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For Linux Users (Ubuntu/Debian/Fedora etc.)

Steps:

1. Go to <https://www.apachefriends.org/index.html>
2. Click on “**XAMPP for Linux**”.

3. Download the .run file (e.g., xampp-linux-x64-8.2.4-0-installer.run).

Installation:

1. Open terminal and navigate to the directory where the .run file is saved.
2. Run the following commands:

```
bash
```

```
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```

```
chmod +x xampp-linux-x64-8.2.4-0-installer.run
```

```
sudo ./xampp-linux-x64-8.2.4-0-installer.run
```

3. The installer will launch. Follow the GUI instructions.
4. After installation, to start XAMPP:

```
bash
```

```
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```

```
sudo /opt/lampp/lampp start
```

To open the XAMPP dashboard, go to browser and type:

```
arduino
```

```
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```

```
http://localhost
```