

# what is Ascoos OS

Ascoos OS isn't a traditional operating system; it's a **PHP-based Web 5.0 kernel for building decentralized web and IoT applications**, featuring a large library of encrypted classes for AI, hardware (like Arduino/Raspberry Pi), networking, and more, using a unique Cms-in-Cms (CiC) tech and modular structure to manage libraries without API dependencies, all designed to run within a web environment. It's also associated with **Ascoos Web Extended Studio (AWES)**, a portable, multi-version PHP/web development environment for Windows.

## Key Aspects of Ascoos OS:

**PHP Kernel:** It's built on PHP, offering a robust framework for complex web and device interactions.

**Decentralized & IoT Focus:** Designed for building applications that work across decentralized web platforms and interact with IoT devices.

**Encrypted Classes:** Uses IonCube to protect its extensive code library (over 4500 classes) for security and IP protection.

**Modular & Dynamic:** Features the Extras Classes Manager and CiC technology for loading libraries, avoiding direct API calls.

**Broad Capabilities:** Supports AI (NLP), macro engines, multithreading, graphics, web services, geolocation, cryptography, and more.

## Ascoos Web Extended Studio (AWES):

**Portable Web Server:** A free, portable development environment for Windows, packing Apache, PHP (multi-version), Node.js, Python, MariaDB, etc..

**Developer Tool:** Aims to provide flexibility for testing apps across different software versions without complex setups.

In essence, Ascoos OS is a powerful, PHP-centric framework for modern web development, while AWES is its companion tool for local development environments, both from the same "Ascoos" family.

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