

Apache
HTTP SERVER PROJECT



Hands-On Apache and PHP for LAMP Stack Essentials

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What is Apache?

- ★ Apache refers to the Apache Foundation's HTTP Server Project.
- ★ It's also known as the HTTPD or http daemon.
- ★ Apache is the most widely used web server on the planet with over 50% of all Internet sites running atop it.
- ★ Apache is Free and Open Source.



What is PHP?

- ★ PHP started out as the “Personal Homepage Pre-Processor” as a personal project to avoid the complexities of the Common Gateway Interface (CGI).
- ★ PHP is an interpreted, object-oriented programming language mainly used for hypertext pre-processing.
- ★ PHP has become the most widely used server side web application environment on the planet. The perfect match for the Apache web server.

Current Versions

- ✦ Apache is currently in the 2.x branch of development although it's 1.x branch was so solid that many servers still run that version to this day.
- ✦ PHP is currently in its 5.x branch of development, and like Apache, it's previous 4.x branch is still widely used due to its reliability.

Apache in LAMP

- ✦ Apache is a key part of the LAMP foundation for web applications.
- ✦ The web server is the component that actually receives and responds to client requests.
- ✦ It's the work horse and must be maintained to ensure optimum service levels.

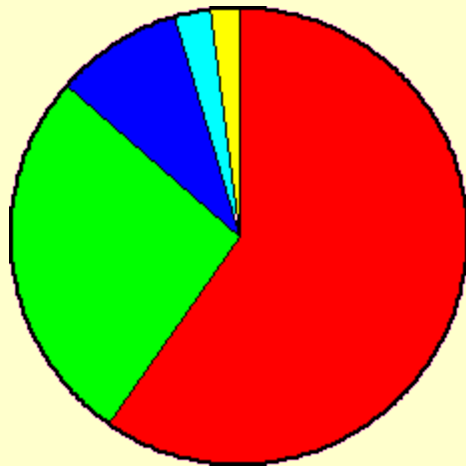
PHP in LAMP

- ✦ PHP is the “brain” of the LAMP stack.
- ✦ An organization's logic and business rules are implemented via PHP scripts.
- ✦ Once Apache has received the client request, PHP kicks in to process any dynamic elements that may be involved and then passes the results back to Apache to be sent to the client.

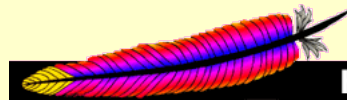
PHP and MySQL

- ✦ PHP is also the key to accessing and retrieving data from a MySQL database.
- ✦ There are extensive libraries of PHP functions to handle data retrieval, processing, and storage in a MySQL database.
- ✦ When static HTML is combined with dynamic data from the database processed by PHP scripts, a dynamic web application is born.

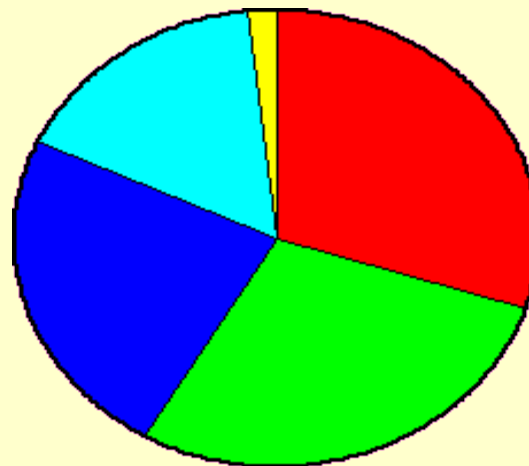
Some Statistics (Netcraft)



- Apache: 59.56%
- Microsoft-IIS: 26.84%
- Other: 8.97%
- Netscape-Enterprise: 2.61%
- Rapidsite: 2.02%



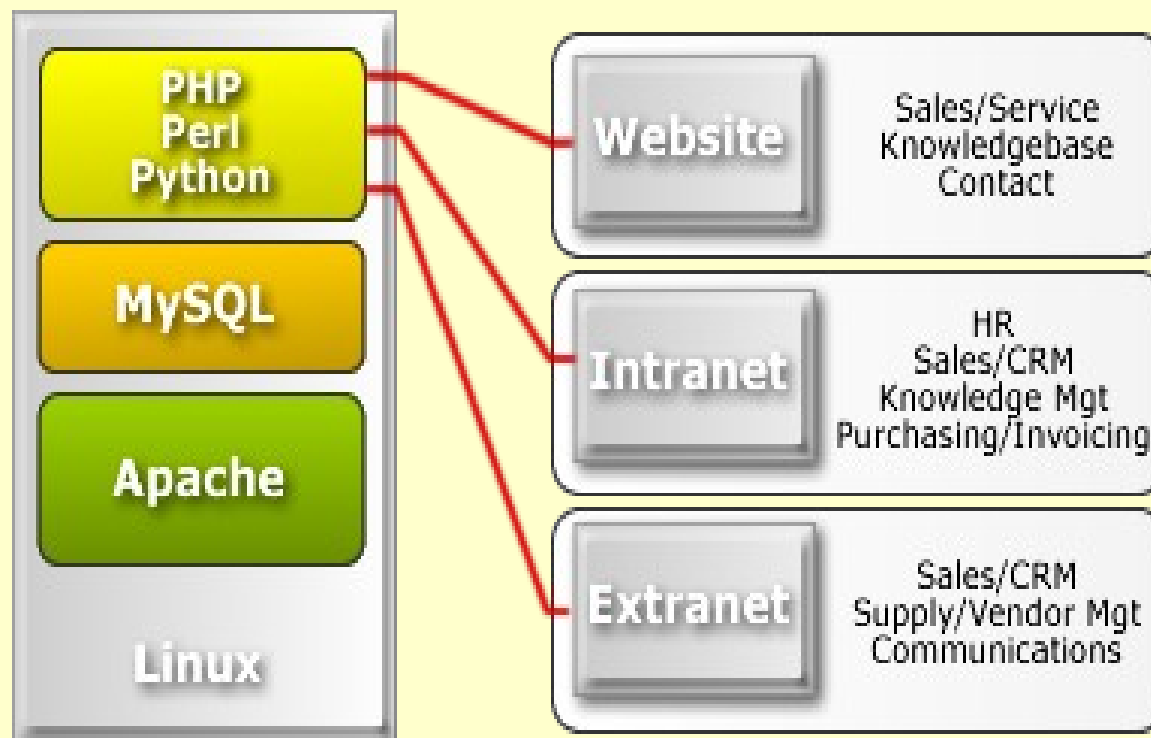
Apache
HTTP SERVER PROJECT



- Linux: 29.99%
- Microsoft: 28.32%
- Other: 23.59%
- Solaris: 16.33%
- Unknown: 1.76%

The Complete LAMP Stack

The **LAMP** Stack: Linux/Apache/MySQL/PHP



The **LAMP** Stack provides a stable, scalable enterprise backbone, replacing costly, high-maintenance operating systems & software