

Basics of LAMP - How it Works?

LAMP is acronym for Linux , Apache , MySql , PHP/Perl/Python(CGI)..Its a solution stack of opensource programmes and its a platform Wherein each component plays a specific and important role..

Components

- **L**inux - Linux Provides the basic Operating System and Environments
- **A**pache - Apache replies to HTTP Requests or passes them to PHP interpreter..
- **M**ySQL - It serves as a data storage functionality
- **P**HP - PHP interpreter parses PHP Code and executes..

How it works

When user requests for a page like :-

<http://localhost/index.php>

The request is received by the Operating System I.e Linux and then the request is handed over to apache..

Apache handling the request check if the url requested is a PHP or a CGI page.. If yes it hands over the request to the PHP interpreter.. Now it replies with the requested resource eg :- index.html etc..

The PHP interpreter parses the requested file , executes the PHP Code .. If the code includes database queries the request is handed over to MySQL ... Mysql deals with the requests received and executes them...

Once the script interpreter has completed executing the program it returns the result to the browser..

The figure below will give a better understanding :-

Code:

```

_____
 / Client /
 / Web-Browser /
 /_____ /
 ||
Initiates || http://go4expert.com/index.php
request  ||

_____
 /      / Hands over to apache /      / ----->/      /
 / Linux / =====> / Apache / PHP Parsing / PHP /
 /_____ / <-----/_____ / <-----/_____ /
                HTTP RESPONSE                                ||
                                                           ||SQL QUERY

_____
                                                           /      /
                                                           / MySql /
                                                           /_____ /
                                                           -

```

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