Building the LAMP stack

Lesson Objectives

In this lesson we will:

- Install Apache and set up our web site
- Install MySQL and do first-time configuration
- Install PHP and adjust its configuration
- Prove that all the pieces work!

- **We will briefly consider other installation solutions**
  - One-stop shopping
  - Windows, Mac OS X and Cloud

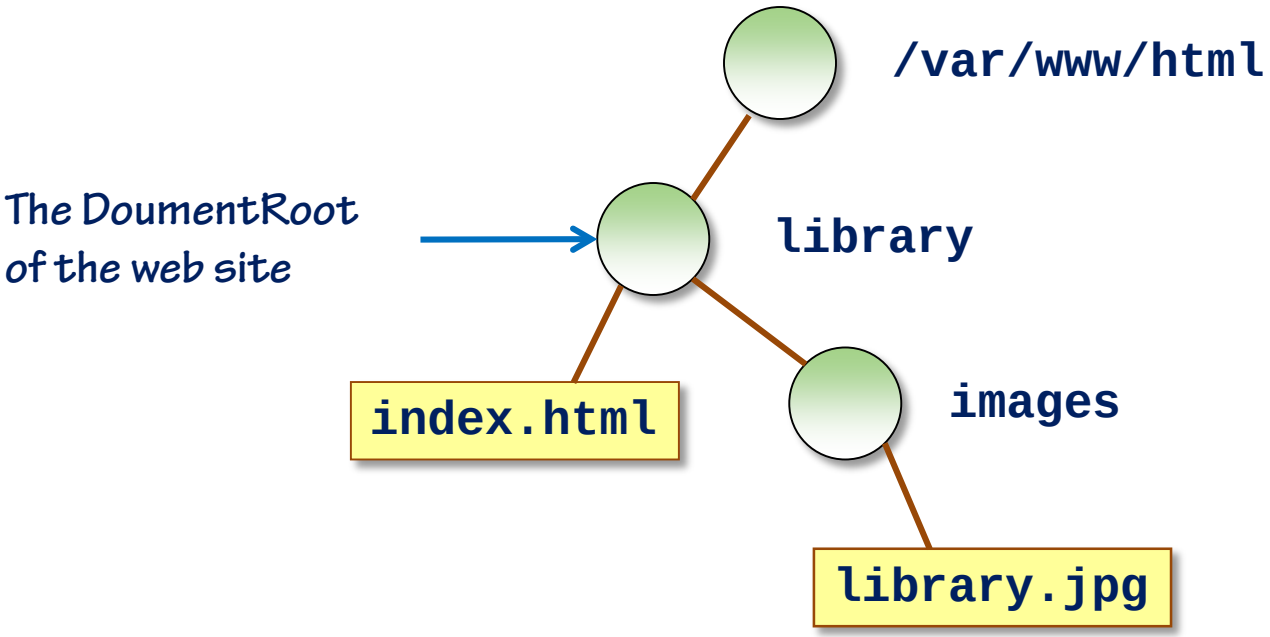
Packages

- Almost all the software we need is in the CentOS repositories
- Starting from a standard CentOS 6 system, we will install:

Package	Purpose
`httpd`	The apache web server
`httpd-manual`	Apache user guides and reference documentation
`kdewebdev`	A collection of web development tools including Quanta+
`mysql`	The MySQL command-line client and other tools
`mysql-server`	The MySQL server
`php`	The apache module containing the php interpreter
`php-mysql`	The PHP library for connecting to a MySQL database

Home page

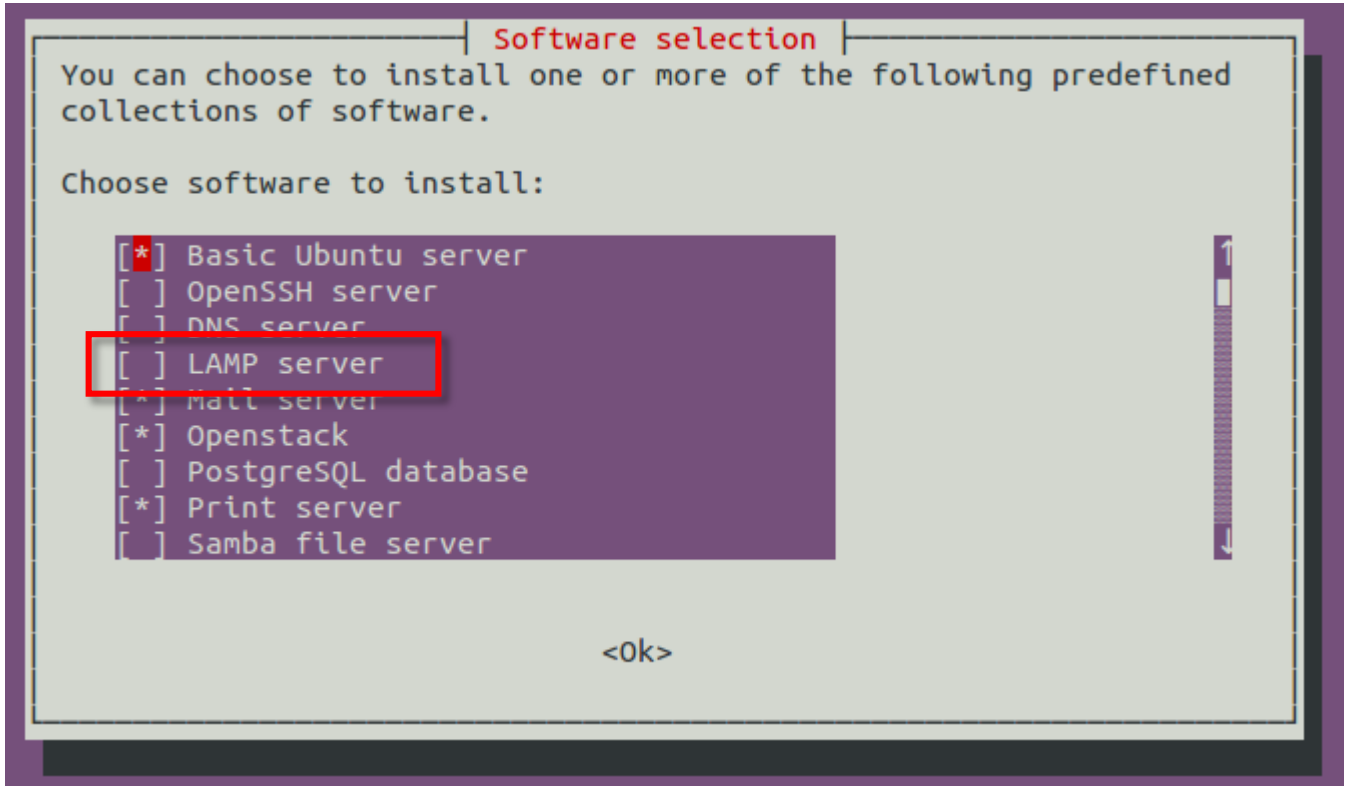
- We will create a simple home page for our library



Demonstration: Installation

All-in-one installation

- **Linux installer may allow selection of LAMP stack at install time**
  - This example is from Debian's `tasksel` running on Ubuntu



LAMP in the Cloud

- **Bitnami (among others) provide pre-built LAMP stacks**

To install onto an existing installation

As a virtual machine image

As a cloud image

Installing onto other Operating Systems

- **Mac OS X**
  - MAMP – Mac OS X, Apache, MySQL and PHP (`http://www.mamp.info`)
- **Windows**
  - WAMP server (`http://sourceforge.net/projects/wampserver`)
  - EasyPHP Web Server (`easyphp.org`)

Coming up in Lesson 3 …