

Topic

• Notes• for final image

- sudo nano /etc/apt/sources.list
- sudo apt-get update
- sudo apt-get -dy install build-essential
- sudo apt-get install -dy libxml2-dev
- sudo apt-get install -dy libssl-dev
- sudo apt-get install -dy libmcrypt-dev
- sudo apt-get install -dy libmysql++-dev
- sudo apt-get update && sudo apt-get -dy install build-essential && sudo apt-get install -dy libxml2-dev && sudo apt-get install -dy libssl-dev && sudo apt-get install -dy libmcrypt-dev && sudo apt-get install -dy libmysql++-dev
- remove php5-mysqld
- sudo apt-get update && sudo apt-get -y install build-essential && sudo apt-get install -y libxml2-dev && sudo apt-get install -y libssl-dev && sudo apt-get install -y libmcrypt-dev && sudo apt-get install -y libmysql++-dev

• Main Topics• Why?

- Have full control over your LAMP environment.
- Get binaries custom-compiled to your hardware.
- Don't rely on some random source for your production software.

• Why not?

- You only need the basics.
- Don't want to learn how to read error output.
- The "make" command gives you hives.

• What you need

- Tools
 - wget
 - locate
 - Frequently /usr/bin/updatedb
 - compiler
 - OSX - Install developer tools
 - Ubuntu
 - apt-get update
 - apt-get install build-essential
- Sources
 - PHP
 - Apache
 - Optional
 - CURL
 - PECL
 - MySQL
 - many others...

• Basic install

- untar files
- move tars into subdir
- RTFM
 - PHP_ Apache 2.0 on Unix systems - Manual
- Install Apache:
 - cd {apache}/
 - ./configure --enable-so
 - *oops!*
 - make
 - *Talk more about handling problems*
 - sudo make install
 - *usually pretty fast*
 - Start Apache!
 - *sudo /usr/local/apache2/bin/apachectl start*
 - *ubuntu710server*
 - Modify index.html
 - */usr/local/apache2/htdocs*
 - Stop apache
- Install PHP
 - Talk about automation
 - Store your configure scripts outside of the source
 - Bundle your configure scripts for quick recompiles
 - symlink those scripts into place
 - ~/install_scripts/php5-configure.sh
 - Get your configure options
 - phpinfo()
 - ./configure \
 - --with-mysql \

Topic

```
--with-apxs2=/usr/local/apache2/bin/apxs \  
--with-xmlrpc \  
--with-openssl \  
--with-mysql \  
--enable-mbstring \  
--with-mcrypt \  
--enable-soap \  
--disable-cgi \  
--enable-bcmath \  
--with-config-file-path=/etc/php5/apache2/ \  
--with-curl \  
--enable-sockets
```

- Solve problems
- make
- make install
- httpd.conf
 - LoadModule php5_module modules/libphp5.so
 - AddType application/x-httpd-php .php .html
- Start Apache!

```
sudo /usr/local/apache2/bin/apachectl start  
ubuntu710server
```

• PECL

- APC
- pecl_http
- memcache

• Automating for the future

• Best practices recap

• Scaling up

• Alternatives to compiling

- Packages
 - apt
 - ports
 - rpm
- LAMP in a box
 -