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## SETTING UP AN APACHE WEB SERVER ON A RASPBERRY PI

Apache is a popular web server application you can install on the Raspberry Pi to allow it to serve web pages.

On its own, Apache can serve HTML files over HTTP, and with additional modules can serve dynamic web pages using scripting languages such as PHP.

#### **INSTALL APACHE**

First install the apache2 package by typing the following command in to the Terminal:

sudo apt-get install apache2 -y

### TEST THE WEB SERVER

By default, Apache puts a test HTML file in the web folder. This default web page is served when you browse to http://lo
calhost/ on the Pi itself, or http://log.log.log
(whatever the Pi's IP address is) from another computer on the
network. To find the Pi's IP address, type hostname -I at the command line (or read more about finding your IP address).

Browse to the default web page either on the Pi or from another computer on the network and you should see the following:

← → C 👬 🗋 192.168.0.163

# It works!

This is the default web page for this server.

The web server software is running but no content has been added, yet.

This means you have Apache working!

#### CHANGING THE DEFAULT WEB PAGE

This default web page is just a HTML file on the filesystem. It is located at /var/www/index.html. navigate to this directory in the Terminal and have a look at what's inside:

cd /var/www ls -al

This will show you:

total 12								
drwxr-xr-x	2	root	root	4096	Jan	8	01:29	
drwxr-xr-x	12	root	root	4096	Jan	8	01:28	
-rw-rr	1	root	root	177	Jan	8	01:29	index.html

This shows that there is one file in /var/www/ called index.html. The . refers to the directory itself /var/www/ and the ... refers to the parent directory /var/.

#### WHAT THE COLUMNS MEAN

- 1. The permissions of the file or directory
- 2. The number of files in the directory (or 1 if it's a file).
- 3. The user which owns the file or directory
- 4. The group which owns the file or directory
- 5. The file size
- 6. The last modification date & time

As you can see, by o	default the	www	director	y and	index.htm	nl fi	e are	both	owned	by the	root	L U	ser. In o	rder	to edit the
file, you must gain	root perm	nissior	ns. Eithe	r chan	ige the ow	ner to	o your	own	user (	sudo (	chown	pi:	index.h	tml )	before
editing, or edit with	sudo , e.g	. sudo	o nano i	ndex.	ntml.										

Try editing this file and refreshing the browser to see the web page change.

#### YOUR OWN WEBSITE

If you know HTML you can put your own HTML files and other assets in this directory and serve them as a website on your local network.

#### ADDITIONAL - INSTALL PHP

To allow your Apache server to process PHP files, you'll need to install PHP5 and the PHP5 module for Apache. Type the following command to install these:

sudo apt-get install php5 libapache2-mod-php5 -y
Now move the index.html file to index.php :
sudo mv index.html index.php
and edit the file:
sudo nano index.php

to put some PHP content in it:

<?php echo "hello world";

Now save and refresh your browser. You should see "hello world". This is not dynamic but still served by PHP. Try something dynamic:

```
<?php echo date('Y-m-d H:i:s');
```

or show your PHP info:

<?php phpinfo();

#### FURTHER - WORDPRESS

Now you have Apache and PHP installed you can progress to setting up a WordPress site on your Pi. Continue to <u>WordPress usage</u>.

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http://www.raspberrypi.org/documentation/remote-access/web-server/apache.md