

Installing a LEMP Server on RPi

The first step in this project, I thought, would be successfully installing a LEMP server. Luckily for me, someone who is very unfamiliar with this, digitalocean.com provided a [great tutorial](#).

To start, I installed the packages I would need for this: PHP (php-fpm), MySQL (mariadb), nginx. I also installed links and git for internet access and access to git. I did this by using:

```
pacman -S
```

Next, I installed and setup MySQL by running:

```
sudo systemctl start mysqld && mysql_secure_installation
```

After going through the prompted steps, I started up nginx with:

```
sudo systemctl start nginx
```

Using the same process, I started php, but where "nginx" is, I replaced it with "php-fpm."

The next step was to edit the nginx configuration file to be prepared for PHP use.

```
sudo vim /etc/nginx/nginx.conf
```

Scrolling down a bit, a block of code is commented out should be uncommented and edited to look like this:

```
location ~ /\.php$ {  
  
    fastcgi_pass    unix:/var/run/php-fpm/php-fpm.sock;  
    fastcgi_index   index.php;  
    root            /srv/http;  
    include         fastcgi.conf;  
}
```

A PHP info page was created next in /srv/http/ to show that PHP was indeed active and the webserver is ready to parse php scripts.

```
sudo vim /srv/http/info.php
```

Finally, I restarted the three daemons and enabled them to boot on startup.

```
sudo systemctl restart nginx mysqld php-fpm  
sudo systemctl enable mysqld php-fpm
```

Thus concludes the installation of the LEMP server