

# SwiftRiver System Requirements - v1.0

## The "AMP" (Apache, MySQL, PHP) Stack

To install and run SwiftRiver, the following software packages must be installed in your development or production environment:

- PHP 5.3 or greater
- Apache HTTP Server 2.x
- MySQL Database Server 5.1 or greater

## Apache Modules

SwiftRiver is bundled with a `.htaccess` file that contains URL rewriting rules. For these rewrite rules to be honored, Apache's `mod_rewrite` needs to be installed and enabled on your web server. The sections below outline how to enable `mod_rewrite` on OS X and Linux (Debian, Ubuntu and CentOS)

### CentOS and OS X

Uncomment the following line in your `httpd.conf`

```
LoadModule rewrite_module
```

### Debian/Ubuntu

Run the following command from the shell prompt:

```
$ sudo a2enmod rewrite
```

Restart your web server for the changes to take effect.

## Required PHP Extensions

In addition to the software packages outlined above, the following PHP libraries **MUST** be installed and enabled in your PHP configuration file (`php.ini`)

- [cURL](#) for accessing remote sites
- [OpenSSL](#) for secure communication
- [MySQL](#) for database access
- [mcrypt](#) for cryptography services
- [PCNTL](#) for processing control
- [GD](#) for image processing

The sections that follow outline how to install the required extension on OS X and Linux (Ubuntu, Debian and CentOS)

### OS X Installation via MacPorts

```
$ sudo port install php5-curl
$ sudo port install php5-mcrypt
$ sudo port install php5-mysql
$ sudo port install php5-pcntl
$ sudo port install php5-openssl
$ sudo port install php5-gd
```

Restart Apache:

```
$sudo /path/to/apachectl restart
```

### Debian/Ubuntu Installation

```
$ sudo apt-get install php5-curl php5-mcrypt php5-mysql php5-pcntl php5-openssl php5-gd
```

Restart Apache:

```
$ sudo service apache2 restart
```

or:

```
$ sudo /etc/init.d/apache2 restart
```

### CentOS (and other RPM-based distributions) Installation via Yum

```
$ sudo yum install php5-curl php5-mcrypt php5-mysql php5-pcntl php5-openssl php5-apc php5-gd
```

Restart Apache:

```
$ sudo service httpd restart
```