GNU/Linux Administration - Support #839

Install a Linux, Apache2, MySQL, PHP Web Server on Arch Linux

08/06/2016 11:15 AM - Daniel Curtis

Status:	Closed		Start date:	08/07/2016
Priority:	Normal		Due date:	
Assignee:	Daniel Curtis		% Done:	100%
Category:	Web Server		Estimated time:	1.50 hour
Target version:	Arch Linux		Spent time:	1.50 hour

Description

This is a guide on how to set up a LAMP Web Server on Arch Linux.

Prepare the Environment

- Switch to the root user:

```
sudo -s
```

- Make sure the system is up to date:

```
pacman -Syu
```

Install MySQL

- Install mariadb:

```
pacman -S mariadb
```

- Run the following command before starting the mariadb.service to create the database:

```
mysql_install_db --user=mysql --basedir=/usr --datadir=/var/lib/mysql
```

- Start and enable mariadb at boot:

```
systemctl enable mariadb
systemctl start mariadb
```

- The run the initial configuration script:

```
mysql_secure_installation
```

Create a new MySQL database

- Log into the MySQL console:

```
mysql -h localhost -u root -p
```

  - Create the **webappuser** user with the **SuperSecretPassword** password and the **webappdb** database:

```
CREATE USER 'webappuser'@'localhost' IDENTIFIED BY 'SuperSecretPassword';
CREATE DATABASE IF NOT EXISTS  `webappdb` CHARACTER SET utf8 COLLATE utf8_general_ci;
GRANT ALL PRIVILEGES ON `webappdb`.* TO 'webbappuser'@'localhost';

flush privileges;
exit
```

Install Apache

- Install apache:

```
pacman -S apache
```

- Start and enable apache at boot:

```
systemctl enable httpd
systemctl start httpd
```

Install PHP

- Install php and php-apache:

```
pacman -S php php-apache
```

- Edit the php config file:

```
nano /etc/php/php.ini
```

  - Set your timezone:

```
date.timezone = America/Los_Angeles
```

  - Change display_errors to Off:

```
display_errors=On
```

  - Limit the paths that can be accessed by PHP:

```
open_basedir = /srv/http/:/home/:/tmp/:/usr/share/pear/:/usr/share/webapps/
```

  - Uncomment the following lines to enable the mysql extension:

```
extension=pdo_mysql.so
extension=mysqli.so
```

- Edit the main apache config file again:

```
nano /etc/httpd/conf/httpd.conf
```

  - Comment the following line:

```
#LoadModule mpm_event_module modules/mod_mpm_event.so
```

- Then uncomment the following line:

```
LoadModule mpm_prefork_module modules/mod_mpm_prefork.so
```

- Place this in the LoadModule list anywhere after LoadModule dir_module modules/mod_dir.so:

```
LoadModule php7_module modules/libphp7.so
```

- Place the following line at the end of the Include list:

```
Include conf/extra/php7_module.conf
```

- Restart apache:

```
systemctl restart httpd
```

- Create a file called test.php in your Apache DocumentRoot directory:

```
nano /srv/http/test.php
```

- And add the following contents:

```
<?php phpinfo(); ?>
```

- To see if it works, open a web browser and go to http://localhost/test.php

Resources

- https://wiki.archlinux.org/index.php/Apache_HTTP_Server
- https://wiki.archlinux.org/index.php/PHP
- https://wiki.archlinux.org/index.php/MySQL

History

#1 - 08/06/2016 11:17 AM - Daniel Curtis

- Status changed from New to In Progress

- Start date changed from 08/06/2016 to 08/07/2016

- % Done changed from 0 to 30

#2 - 08/06/2016 09:13 PM - Daniel Curtis

- Description updated

- Status changed from In Progress to Resolved

- % Done changed from 30 to 100

#3 - 09/12/2016 07:29 PM - Daniel Curtis

- Status changed from Resolved to Closed