GNU/Linux Administration - Support #573

Install Piwik on a Debian LAMP Server

02/24/2015 01:34 PM - Daniel Curtis

Status:	Closed	**Start date:**	02/21/2015
Priority:	Normal	**Due date:**	
Assignee:	Daniel Curtis	**% Done:**	100%
Category:	Web Server	**Estimated time:**	1.50 hour
Target version:	Debian	**Spent time:**	1.50 hour

Description

This is a simple guide for setting up Piwik on a LAMP server on Debian 7 (wheezy).

Prepare The Server

This guide is assumed that a Bare Debian install with only SSH Server access, a user that has sudo access.

- Obtain a root shell and upgrade the server:

```
sudo -s
apt-get update && apt-get upgrade
```

- Set the hostname in the hosts:

```
vi /etc/hosts
```

  - And add/modify the following:

```
127.0.1.1     piwik.example.com piwik
```

- And also edit the hostname file:

```
vi /etc/hostname
```

  - And add/modify the following:

```
piwik
```

- Reboot to apply the hostname settings:

```
reboot
```

Install Apache 2

- Install apache:

```
apt-get install apache2
```

Configure Apache 2

- Edit the default apache2 Vhost config:

```
vi /etc/apache2/sites-available/default
```

  - And add/modify the following VirtualHost block:

```
<VirtualHost *:80>
    ServerName piwik.example.com

    DocumentRoot /var/www
    <Directory /var/www>
        Options -Indexes FollowSymLinks MultiViews
        AllowOverride All
        Order allow,deny
        allow from all
    </Directory>
</VirtualHost>
```

  - **NOTE**: Make sure AllowOverride is set to ALL, or else the .htaccess file will not work.

- Restart apache2:

```
service apache2 restart
```

- Now navigate to http://piwik.example.com and the default **It Works!** should be displayed.

Securing Apache with SSL

- Install openssl:

```
apt-get install openssl
```

- Generate a strong SSL key and a CSR to send for signing by a CA:

```
mkdir /etc/apache2/ssl && cd /etc/apache2/ssl
openssl req -sha512 -out piwik.example.com.csr -new -newkey rsa:4096 -nodes -keyout piwik.exam
ple.com.key
```

- Make sure to securely copy the SSL certificate to www.example.com.crt
- Edit the apache2 default ssl Vhost config file:

```
vi /etc/apache2/sites-available/default-ssl
```

  - And Add the following:

```
<VirtualHost *:443>
    ServerName piwik.example.com

    DocumentRoot /var/www
    <Directory /var/www>
        Options FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>

    SSLEngine on
```

```
    SSLCertificateFile /etc/apache2/ssl/piwik.example.com.crt
    SSLCertificateKeyFile /etc/apache2/ssl/piwik.example.com.key

    <FilesMatch "\.(cgi|shtml|phtml|php)$">
        SSLOptions +StdEnvVars
    </FilesMatch>

    BrowserMatch "MSIE [2-6]" nokeepalive ssl-unclean-shutdown downgrade-1.0 force-respons
e-1.0
    BrowserMatch "MSIE [17-9]" ssl-unclean-shutdown
</VirtualHost>
```

- Change the SSL certificate and key ownership to the apache user:

```
chown www-data:www-data /etc/apache2/ssl/piwik.example.com.{crt,key}
chmod o-rwx /etc/apache2/ssl/piwik.example.com.key
```

- Enable the ssl apache modules:

```
a2enmod ssl
```

Forcing SSL on a Website

- Enable forced SSL connection by setting the two lines from earlier in the .htaccess file. Open the file for editing:

```
vi /var/www/.htaccess
```

  - Look for the following two lines, and remove the # characters before them:

```
RewriteCond %{HTTPS} !=on
RewriteRule ^ https://%{HTTP_HOST}%{REQUEST_URI} [L,R=301]
```

- Restart apache2:

```
service apache2 restart
```

- Now the website will be accessible from https://piwik.example.com

Install MySQL 5.5

- Install MySQL server and client:

```
apt-get install mysql-server mysql-client
```

  - **NOTE**: During the setup a prompt will appear to set the **root** MySQL user password. Set a strong password and do not forget it.

Configure a new MySQL database

- Log into the MySQL console:

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

- Create the **piwikuser** user with the **SuperSecretPassword** password and the **piwikdb** database:

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

flush privileges;
exit
```

Install PHP 5

- Install PHP 5 with the apache-php module and a few common PHP extensions:

```
apt-get install php5 php5-dev libapache2-mod-php5 curl php5-cli php5-mysql php5-mcrypt php5-gd
 php5-curl
```

  - PHP has many extensions, run the following to get a list of all available extensions:

```
apt-cache search php5-
```

- Restart apache for the php module to take effect:

```
service apache2 restart
```

Install Piwik

- Install git

```
apt-get install git
```

- Install Piwik:

```
rm /var/www/*
git clone https://github.com/piwik/piwik /var/www
```

- Install composer:

```
cd /var/www
curl -sS https://getcomposer.org/installer | php
php composer.phar install
```

- Set correct permissions:

```
chown -R www-data:www-data /var/www
chmod -R 0755 /var/www/tmp
chmod -R 0755 /var/www/tmp/assets/
chmod -R 0755 /var/www/tmp/cache/
chmod -R 0755 /var/www/tmp/logs/
chmod -R 0755 /var/www/tmp/tcpdf/
chmod -R 0755 /var/www/tmp/templates_c/
```

Related issues:			
Copied from GNU/Linux Administration - Support #568: Install a Linux, Apache2...	**Closed**	**02/21/2015**	

History

#1 - 02/24/2015 01:34 PM - Daniel Curtis

- Copied from Support #568: Install a Linux, Apache2, MySQL, PHP Web Server on Debian added

#2 - 02/24/2015 02:47 PM - Daniel Curtis

- Description updated

- Status changed from New to Resolved

- % Done changed from 0 to 100

#3 - 02/28/2015 03:57 PM - Daniel Curtis

- Status changed from Resolved to Closed