FreeBSD Administration - Support #767

Install WordPress on FreeBSD

03/03/2016 12:24 PM - Daniel Curtis

Status:	Closed	**Start date:**	03/03/2016
Priority:	Normal	**Due date:**	
Assignee:	Daniel Curtis	**% Done:**	100%
Category:	Web Server	**Estimated time:**	1.00 hour
Target version:	FreeBSD 9	**Spent time:**	1.00 hour

Description

This is a guide on setting up WordPress with Nginx on FreeBSD 9.

Prepare the Environment

- Before installation of the components, make sure everything is up to date using the following command:

```
pkg update -f && pkg upgrade
```

- Create the wordpress user:

```
pw user add -n wordpress -m -s /sbin/nologin -c "WordPress"
```

Install Nginx

- Install Nginx

```
pkg install nginx
```

- Start and enable nginx at boot:

```
echo 'nginx_enable="YES"' >> /etc/rc.conf
service nginx start
```

- Create a configuration directory to make managing individual server blocks easier

```
mkdir /usr/local/etc/nginx/conf.d
```

- Edit the main nginx config file:

```
vi /usr/local/etc/nginx/nginx.conf
```

  - And strip down the config file and add the include statement at the end to make it easier to handle various server blocks:

```
worker_processes  1;
error_log  /var/log/nginx-error.log;

events {
    worker_connections  1024;
```

```
}

http {
    include       mime.types;
    default_type  application/octet-stream;
    sendfile        on;
    keepalive_timeout  65;

    # Load config files from the /etc/nginx/conf.d directory
    include /usr/local/etc/nginx/conf.d/*.conf;
}
```

Install MySQL Server

- Start by installing the mysql56-server and mysql56-client packages:

```
pkg install mysql56-{server,client}
```

- Copy a base MySQL configuration to use:

```
cp /usr/local/share/mysql/my-default.cnf /var/db/mysql/my.cnf
```

- Enable and start mysql at boot:

```
echo 'mysql_enable="YES"' >> /etc/rc.conf
service mysql-server start
```

- Prepare the database for use by running the secure installation:

```
mysql_secure_installation
```

  - **NOTE**: Choose a strong root password and answer yes to all questions.

Create MySQL Databases and Users

- Login to MySQL and create appropriate databases and users.

```
mysql -u root -p
```

  - and run the following SQL queries to create the **wordpressdb** database and **wordpressuser** user:

```
CREATE DATABASE wordpressdb CHARACTER SET utf8;

CREATE USER 'wordpressuser'@'localhost' IDENTIFIED BY 'SuperSecretPassword';

GRANT ALL PRIVILEGES ON wordpressdb.* TO 'wordpressuser'@'localhost';

FLUSH PRIVILEGES;

quit
```

Install PHP

- Install PHP 5.6 and a few extensions:

```
pkg install php56
```

- Configure the default PHP settings

```
cp /usr/local/etc/php.ini-production /usr/local/etc/php.ini
```

- Create a directory for the php-fpm configs:

```
mkdir /usr/local/etc/php-fpm.d
```

- Edit /usr/local/etc/php-fpm.conf:

```
vi /usr/local/etc/php-fpm.conf
```

  - Make the following changes:

```
include=/usr/local/etc/php-fpm.d/*.conf
```

- Enable PHP-FPM at boot:

```
echo 'php_fpm_enable="YES"' >> /etc/rc.conf
```

Install WordPress

- Install wordpress:

```
pkg install wordpress
```

- Create a temporary directory for wordpress:

```
mkdir /usr/local/www/wordpress/tmp
```

- Create an **wordpress.example.com server block** config file:

```
vi /usr/local/etc/nginx/conf.d/wordpress.example.com.conf
```

  - Add the following:

```
upstream wordpress-handler {
  server unix:/var/run/wordpress.example.com-php-fpm.sock;
}

server {
  listen 80;
  server_name wordpress.example.com;
  root /usr/local/www/wordpress/;
```

```
  index index.php;

  location = /robots.txt {
    allow all;
    log_not_found off;
    access_log off;
  }

  location ~ ^/(?:CHANGELOG\.md|config|README.md|tmp/){
    deny all;
  }

  location / {
    try_files $uri $uri/ =404;
  }

  location ~ \.php(?:$|/) {
    fastcgi_split_path_info ^(.+\.php)(/.+)$;
    include fastcgi_params;
    fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
    fastcgi_param PATH_INFO $fastcgi_path_info;
    fastcgi_pass wordpress-handler;
    fastcgi_intercept_errors on;
  }
}
```

- Create the **wordpress php-fpm pool** config file:

```
vi /usr/local/etc/php-fpm.d/wordpress.example.com.conf
```

  - And add the following:

```
[wordpress.example.com]
user = wordpress
group = www
listen = /var/run/wordpress.example.com-php-fpm.sock
listen.owner = wordpress
listen.group = www
pm = dynamic
pm.max_children = 5
pm.start_servers = 2
pm.min_spare_servers = 1
pm.max_spare_servers = 3
php_admin_value[session.save_path] = "/usr/local/www/wordpress/tmp"
```

- Change the ownership of the wordpress directory:

```
chown -R wordpress:www /usr/local/www/wordpress
```

- Restart nginx and start php-fpm:

```
service nginx restart
service php-fpm start
```

- Now open up a web browser and go to http://wordpress.example.com to finish the setup process.

History

#1 - 03/03/2016 12:39 PM - Daniel Curtis

- Description updated

#2 - 03/03/2016 12:54 PM - Daniel Curtis

- Description updated

- Status changed from New to Resolved

- % Done changed from 0 to 100

#3 - 03/03/2016 12:54 PM - Daniel Curtis

- Description updated

#4 - 03/12/2016 02:16 PM - Daniel Curtis

- Status changed from Resolved to Closed