

FreeBSD Administration - Support #436

Installing Diaspora* on FreeBSD

08/12/2014 07:32 PM - Daniel Curtis

Status:	Closed	Start date:	08/12/2014
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	100%
Category:	Web Server	Estimated time:	6.00 hours
Target version:	FreeBSD 9	Spent time:	15.50 hours

Description

This is a simple guide for setting up Diaspora* on FreeBSD 9.

Prerequisites

- Update the system and ports tree

```
pkg update && pkg upgrade
portsnap fetch extract
```

- Install ca_root_nss

```
cd /usr/ports/security/ca_root_nss
make config
make reinstall clean
```

- **NOTE:** Make sure to enable **[X] ETCSYMLINK** when running make config. This is to prevent an error later when running bundle install.

- Install portmaster:

```
cd /usr/ports/ports-mgmt/portmaster
make install clean
pkg2ng
```

- It is **vitaly important** that you do not use tabs in make.conf. This will break your system! The settings here are in addition to any others you already have, and are required to prevent conflicts.

```
echo 'WITHOUT="X11"' >> /etc/make.conf
echo 'OPTIONS_UNSET=X11' >> /etc/make.conf
echo 'DEFAULT_VERSIONS= perl5=5.16 ruby=2.2 python=2.7 postgresql=9.4 mysql=5.5' >> /etc/make.conf
echo 'PERL5_DEFAULT=5.16' >> /etc/make.conf
echo 'RUBY_VER=2.2' >> /etc/make.conf
echo 'WANT_PGSQL_VER=94' >> /etc/make.conf
```

- The following packages are optional but recommended before you begin building Diaspora* on FreeBSD:

```
portmaster shells/bash security/sudo devel/gmake devel/git devel/subversion lang/python27 ftp/curl
devel/automake graphics/ImageMagick-nox11 print/ghostscript9-nox11 lang/ruby22 www/node
www/npm devel/libtool devel/bison devel/readline textproc/rubygem-nokogiri databases/redis sys
utils/rubygem-bundler
```

- Enable and start Redis

```
echo 'redis_enable="YES"' >> /etc/rc.conf  
service redis start
```

- Add the diaspora user

```
pw add user -n diaspora -m -s /usr/local/bin/bash -c "Diaspora*"
```

Install PostgreSQL

- Install PostgreSQL 9.4:

```
portmaster databases/postgresql94-server databases/postgresql94-client
```

- Connect to the default database:

```
su - postgres  
psql
```

- Set a password for the postgres user:

```
\password postgres
```

- The postgres admin console will show postgres=#, create a new diaspora database user and database:

```
CREATE USER diasporauser WITH PASSWORD 'diasporapass';  
CREATE DATABASE diasporadb OWNER diasporauser;
```

- Quit from the database

```
\q
```

- Exit from the postgres user

```
exit
```

Install Diaspora*

- Download Diaspora* as the diaspora user run:

```
su - diaspora  
git clone git://github.com/diaspora/diaspora.git  
cd diaspora
```

- Copy the example configuration files

```
cp config/database.yml.example config/database.yml
cp config/diaspora.yml.example config/diaspora.yml
```

- Start by setting bundler to use the system nokogiri gem. This is to prevent an error during install:

```
bundle config build.nokogiri "--use-system-libraries --with-xml2-include=/usr/local/include/libxml2"
```

- Install the Ruby libraries required by Diaspora:

```
bundle install --without test development --path vendor/bundle
```

Setup the Database

- Double check that the database.yml looks right:

```
vi config/database.yml
```

- Run the following to setup the database:

```
RAILS_ENV=production bundle exec rake db:create db:schema:load
```

- Edit the diaspora config:

```
vi config/diaspora.yml
```

- And modify the certificate_authority parameter to the following:

```
certificate_authorities: '/usr/local/etc/ssl/cert.pem'
```

Start Diaspora

- Edit the production environment config:

```
vi config/environments/production.rb
```

- And modify the following parameter:

```
config.assets.compile = true
```

- Precompile the assets used by Diaspora:

```
RAILS_ENV=production bundle exec rake assets:precompile
```

- Start Diaspora:

```
./script/server
```

Install Nginx

- Install Nginx with Passenger

```
portmaster www/nginx
```

NOTE: Make sure to enable **[X]PASSENGER** during the configuration

- Install Passenger

```
portmaster www/rubygem-passenger
```

NOTE: Make sure to enable **NGINX** during the configuration

NOTE: Enabling the **[X] SYMLINK** option will make upgrading passenger easier later on

- Start and enable nginx at boot:

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

Configure Nginx

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

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

- Configuring Nginx and Passenger, edit the /usr/local/etc/nginx/nginx.conf file:

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

- And add/modify the following

```
user www www;  
worker_processes 4;  
error_log /var/log/nginx/error.log notice;  
pid /var/run/nginx.pid;  
  
events {  
    worker_connections 1024;  
}  
  
http {  
    passenger_root /usr/local/lib/ruby/gems/2.2/gems/passenger;  
    passenger_ruby /usr/local/bin/ruby;  
    passenger_max_pool_size 15;  
    passenger_pool_idle_time 300;  
  
    # Load config files from the /etc/nginx/conf.d directory  
    include /usr/local/etc/nginx/conf.d/*.conf;  
  
    include mime.types;  
    default_type application/octet-stream;  
    sendfile on;  
    tcp_nopush on;  
    keepalive_timeout 65;  
    tcp_nodelay on;
```

```
}
```

NOTE: The above configuration will set the ruby used by passenger to the system default ruby.

- Create a server block for diaspora

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

- And add the following:

```
server {  
    listen      80;  
    server_name diaspora.example.com;  
  
    passenger_enabled on;  
    passenger_user   diaspora;  
    passenger_group  diaspora;  
  
    access_log /var/log/nginx-diaspora.log;  
    root /home/diaspora/diaspora/public;  
}
```

- Restart nginx:

```
service nginx restart
```

Resources

- <https://wiki.diasporafoundation.org/Installation/FreeBSD>

History

#1 - 08/12/2014 07:33 PM - Daniel Curtis

- Status changed from *New* to *In Progress*
- % Done changed from 0 to 30

#2 - 08/28/2014 04:32 PM - Daniel Curtis

- Description updated
- % Done changed from 30 to 70

#3 - 08/28/2014 04:34 PM - Daniel Curtis

- Description updated

#4 - 10/22/2014 06:18 PM - Daniel Curtis

- Description updated

#5 - 02/15/2015 08:36 PM - Daniel Curtis

- Project changed from 101 to *FreeBSD Administration*
- Subject changed from *Installing Diaspora* on FreeBSD 9.2-RELEASE* to *Installing Diaspora* on FreeBSD*
- Category set to *Web Server*
- Target version set to *FreeBSD 9*

#6 - 02/25/2015 04:24 PM - Daniel Curtis

- Description updated
- % Done changed from 70 to 80

#7 - 02/25/2015 05:04 PM - Daniel Curtis

- Description updated

#8 - 02/25/2015 05:11 PM - Daniel Curtis

- Description updated

#9 - 02/25/2015 08:49 PM - Daniel Curtis

- Description updated

#10 - 02/25/2015 08:51 PM - Daniel Curtis

- % Done changed from 80 to 90

#11 - 03/03/2015 04:50 PM - Daniel Curtis

- Description updated

#12 - 05/03/2015 05:22 PM - Daniel Curtis

- Description updated

- % Done changed from 90 to 50

#13 - 05/03/2015 05:25 PM - Daniel Curtis

- Description updated

#14 - 06/14/2015 04:43 PM - Daniel Curtis

- Description updated

#15 - 06/14/2015 05:33 PM - Daniel Curtis

- Description updated

#16 - 06/14/2015 07:34 PM - Daniel Curtis

- Description updated

#17 - 06/14/2015 08:48 PM - Daniel Curtis

- Description updated

#18 - 06/15/2015 06:43 AM - Daniel Curtis

- Description updated

#19 - 06/15/2015 07:06 AM - Daniel Curtis

- Description updated

#20 - 06/15/2015 08:15 AM - Daniel Curtis

- Description updated

- % Done changed from 50 to 70

#21 - 06/15/2015 10:37 AM - Daniel Curtis

- Description updated

- % Done changed from 70 to 90

#22 - 06/15/2015 09:42 PM - Daniel Curtis

- Description updated

- Status changed from In Progress to Resolved

- % Done changed from 90 to 100

#23 - 06/15/2015 09:46 PM - Daniel Curtis

- Description updated

#24 - 06/04/2017 09:09 PM - Daniel Curtis

- Status changed from Resolved to Closed