FreeBSD Administration - Support #738

Install a F-Droid Repo Server on FreeBSD

01/30/2016 09:20 PM - Daniel Curtis

Status:	Suspended	Start date:	01/31/2016
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	30%
Category:	Package Management	Estimated time:	2.00 hours
Target version:	FreeBSD 9	Spent time:	1.50 hour

Description

This is a guide on installing the F-Droid server to serve a local android package repository on FreeBSD 9.

NOTE: Due to the lack of support for the Android SDK on FreeBSD, the F-Droid Repo does not work as expected. -3/12/16

Prepare the Environment

- Make sure the system is up to date:

```
pkg update && pkg upgrade
```

- Install a few dependencies:

```
pkg install git python2 py27-pip py27-virtualenv bash jpeg openjdk
```

- Add the fdroid user

```
pw add user -n fdroid -m -s /bin/sh -c "F-Droid"
```

Install Android SDK

<u>WARNING</u>: The Android SDK is not supported on FreeBSD. Don't expect it to work out of the box.

- Download Android SDK:

```
fetch http://dl.google.com/android/android-sdk_r24.4.1-linux.tgz
```

Install F-Droid Server

- Switch to the fdroid user:

```
su - fdroid
```

- Clone the fdroid source:

```
git clone https://gitlab.com/fdroid/fdroidserver.git
```

- Install the fdroid server:

```
cd fdroidserver
virtualenv env/
source env/bin/activate
pip install -e .
python2 setup.py install
```

- Exit from the fdroid user back into the root user:

```
exit
```

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;
}
```

Setup F-Droid Repo

- Create the fdroid repository directory:

```
mkdir -p /usr/local/www/fdroid.example.com/fdroid
```

```
chown -R fdroid:www /usr/local/www/fdroid.example.com
```

- Create the fdroid server block config file:

```
vi /etc/nginx/conf.d/fdroid.example.com.conf
```

  - And add the following:
    server {
    listen   80 default_server;
    server_name fdroid.example.com;
    autoindex   on;
    access_log /var/log/fdroid.example.com.log main;

    location / {
    root   /usr/local/www/fdroid.example.com;
    index index.html index.htm;
    }
    }

Initialize the F-Droid Repo

- Switch to the fdroid user:

```
su - fdroid
```

- Initialize a bare F-Droid repository:

```
cd /usr/local/www/fdroid.example.com/fdroid
fdroid init
```

Resources

- https://github.com/f-droid/fdroidserver
- https://f-droid.org/wiki/page/Setup_an_FDroid_App_Repo
- https://f-droid.org/manual/fdroid.html#Simple-Binary-Repository

History

#1 - 01/31/2016 08:40 AM - Daniel Curtis

- Description updated

- Status changed from New to In Progress

- % Done changed from 0 to 30

#2 - 03/12/2016 01:53 PM - Daniel Curtis

- Description updated

- Status changed from In Progress to Suspended