一、环境

```
linux: centos-release-7-5.1804.el7.centos.x86_64
```

fastdfs: group1:192.168.238.160

二、安装

1.安装编译环境

```
yum install git gcc gcc-c++ make automake vim wget libevent -y
```

2. 安装libfastcommon 基础库

```
mkdir /root/fastdfs

cd /root/fastdfs/
git clone https://github.com/happyfish100/libfastcommon.git --depth 1

cd libfastcommon/
./make.sh && ./make.sh install
```

3.安装fastdfs

```
cd /root/fastdfs/
wget https://github.com/happyfish100/fastdfs/archive/V5.11.tar.gz
tar -zxvf V5.11.tar.gz
cd fastdfs-5.11
./make.sh && ./make.sh install
```

4.修改配置

```
#配置文件准备
```

- cp /etc/fdfs/tracker.conf.sample /etc/fdfs/tracker.conf
- cp /etc/fdfs/storage.conf.sample /etc/fdfs/storage.conf
- cp /etc/fdfs/client.conf.sample /etc/fdfs/client.conf
- cp /root/fastdfs/fastdfs-5.11/conf/http.conf /etc/fdfs
- cp /root/fastdfs/fastdfs-5.11/conf/mime.types /etc/fdfs

```
vim /etc/fdfs/tracker.conf
#需要修改的内容如下
port=22122
base_path=/home/fastdfs
```

```
vim /etc/fdfs/storage.conf
#需要修改的内容如下
port=23000
group_name=group1
base_path=/home/fastdfs
# 数据和日志文件存储根目录
store_path0=/home/fastdfs
# 第一个存储目录 tracker_server=192.168.238.160:22122
# http访问文件的端口(默认8888,看情况修改,和nginx中保持一致)
http.server_port=8888
```

5.启动

```
mkdir /home/fastdfs -p
/usr/bin/fdfs_trackerd /etc/fdfs/tracker.conf restart
/usr/bin/fdfs_storaged /etc/fdfs/storage.conf restart
查看所有运行的端口
netstat -ntlp
```

6.安装fastdfs-nginx-module

```
cd /root/fastdfs
wget https://github.com/happyfish100/fastdfs-nginx-module/archive/V1.20.tar.gz
##解压
tar -zxvf V1.20.tar.gz
cd fastdfs-nginx-module-1.20/src
vim config
##修改第5行和15行 修改成
ngx_module_incs="/usr/include/fastdfs /usr/include/fastcommon/"
CORE_INCS="$CORE_INCS /usr/include/fastdfs /usr/include/fastcommon/"
```

```
cp mod_fastdfs.conf /etc/fdfs/

vim /etc/fdfs/mod_fastdfs.conf
#需要修改的內容如下
tracker_server=192.168.238.160:22122
url_have_group_name=true
store_path0=/home/fastdfs
```

```
mkdir -p /var/temp/nginx/client
```

7.安装nginx

```
cd /root/fastdfs
wget http://nginx.org/download/nginx-1.15.6.tar.gz
tar -zxvf nginx-1.15.6.tar.gz
cd nginx-1.15.6/
```

```
yum -y install pcre-devel openssl openssl-devel

# 添加fastdfs-nginx-module模块

./configure --add-module=/root/fastdfs/fastdfs-nginx-module-1.20/src

#编译安装

make && make install

#查看模块是否安装上

/usr/local/nginx/sbin/nginx -V
```

```
vim /usr/local/nginx/conf/nginx.conf

#添加如下配置
server {
    listen 8888;
    server_name localhost;
    location ~/group[0-9]/ {
        ngx_fastdfs_module;
    }
}
```

/usr/local/nginx/sbin/nginx

三、测试

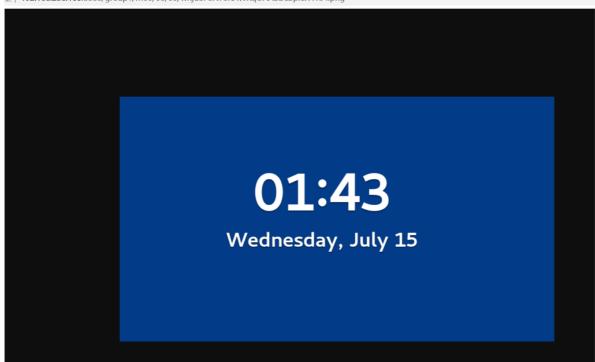
1.测试上传

```
vim /etc/fdfs/client.conf
#需要修改的内容如下
base_path=/home/fastdfs
#tracker服务器IP和端口
tracker_server=192.168.238.160:22122
#保存后测试,返回ID表示成功 如: group1/M00/00/0xxx.png
/usr/bin/fdfs_upload_file /etc/fdfs/client.conf /root/fastdfs/1.png
```

[root@localhost logs]# vim /etc/fdfs/client.conf
[root@localhost logs]# /usr/bin/fdfs_upload_file /etc/fdfs/client.conf /root/fastdfs/1.png
group1/M00/00/00/WKjuoF8N73KAWKq0AABDL5pi8X4134.png

2.测试http下载

http://192.168.238.160:8888/group1/M00/00/00/wKjuoF8N73KAWKqOAABDL5pi8X4134.png



四、GraphicsMagick生成缩略图

1.编译安装-LuaJIT

```
wget http://luajit.org/download/LuaJIT-2.0.4.tar.gz
tar -zxvf LuaJIT-2.0.4.tar.gz
mv LuaJIT-2.0.4 /usr/local
cd /usr/local/LuaJIT-2.0.4/
make && make install
```

```
vim /etc/profile
export LUAJIT_LIB=/usr/local/lib
export LUAJIT_INC=/usr/local/include/luajit-2.0
source /etc/profile
```

ln -s /usr/local/lib/libluajit-5.1.so.2 /lib64/libluajit-5.1.so.2

2.编译安装-Lua

```
wget http://www.lua.org/ftp/lua-5.3.3.tar.gz
tar -zxvf lua-5.3.3.tar.gz
mv lua-5.3.3 /usr/local
cd /usr/local/lua-5.3.3/
make linux && make install
```

3.编译安装-GraphicsMagick

#安裝graphicsmagick支持的图片格式 yum install libjpeg libjpeg-devel libpng libpng-devel giflib giflib-devel freetype freetype-devel -y

```
##安装-GraphicsMagick
wget
https://sourceforge.net/projects/graphicsmagick/files/graphicsmagick/1.3.35/Grap
hicsMagick-1.3.35.tar.gz
tar -zxvf GraphicsMagick-1.3.35.tar.gz
cd GraphicsMagick-1.3.35/
./configure --prefix=/usr/local/GraphicsMagick --enable-shared
make && make install
```

/usr/local/GraphicsMagick/bin/gm version

4.编译安装-nginx

```
#先查看nginx编译安装时安装了哪些模块
/usr/local/nginx/sbin/nginx -V
nginx version: nginx/1.15.6
built by gcc 4.8.5 20150623 (Red Hat 4.8.5-39) (GCC)
configure arguments: --add-module=/root/fastdfs/fastdfs-nginx-module-1.20/src
```

```
mv ngx_devel_kit/ /usr/local
tar -zxvf zlib-1.2.11.tar.gz
mv zlib-1.2.11 /usr/local
tar -zxvf v0.10.9rc7.tar.gz
mv lua-nginx-module-0.10.9rc7/ /usr/local
```

```
#在nginx的源码目录下,通过-add-module=xxx的方式,追加模块
./configure --add-module=/root/fastdfs/fastdfs-nginx-module-1.20/src --
prefix=/usr/local/nginx --with-zlib=/usr/local/zlib-1.2.11 --add-
module=/usr/local/lua-nginx-module-0.10.9rc7 --add-
module=/usr/local/ngx_devel_kit

make && make install
/usr/local/nginx/sbin/nginx -V
```

5.nginx配置

```
##从github上下载lua脚本nginx-lua-fastdfs-GraphicsMagick
git clone https://github.com/hpxl/nginx-lua-fastdfs-GraphicsMagick.git
cd nginx-lua-fastdfs-GraphicsMagick/lua
cp ./* /usr/local/nginx/conf/lua

#修改脚本中的tracker ip信息和gm的命令变量
vim /usr/local/nginx/conf/lua/fastdfs.lua

fdfs:set_tracker("192.168.238.160", 22122)
local command = "/usr/local/GraphicsMagick/bin/gm convert"
```

```
[root@localhost lua]# vim fastdfs.lua
      cal rars = rastars:new()
    fdfs:set_tracker('
    fdfs:set_timeout(1000)
fdfs:set_tracker_keepalive((
    fdfs:set_storage_keepalive(
    local data = fdfs:do_download(fileid)
    if data then
        if not is_dir(ngx.var.image_dir) then
                                   ' .. ngx.var.image_dir)
        writefile(originalFile, data)
end
 - 创建缩略图
local image_sizes =
function table.contains(table, element)
        _, value in pairs(table) do
        if value == element then
            return
    end
end
   table.contains(image_sizes, area) then
   local command =
                                                                      originalFile .. " -thum
   os.execute(command):
 #修改nginx配置
```

```
vim /usr/local/nginx/conf/nginx.conf
server {
   listen
               8888;
   server_name localhost;
   location /lua {
       default_type 'text/plain';
       content_by_lua 'ngx.say("Hello, Lua!")';
   }
   location /group1/M00 {
       alias /home/fastdfs/data;
       set $image_root "/home/fastdfs/data";
       9]+)/(.*)") {
          set $image_dir "$image_root/$3/$4/";
          set $image_name "$5";
          set $file "$image_dir$image_name";
       }
       if (!-f $file) {
          # 关闭lua代码缓存,方便调试lua脚本
          #lua_code_cache off;
          content_by_lua_file "/usr/local/nginx/conf/lua/fastdfs.lua";
       ngx_fastdfs_module;
   }
}
```

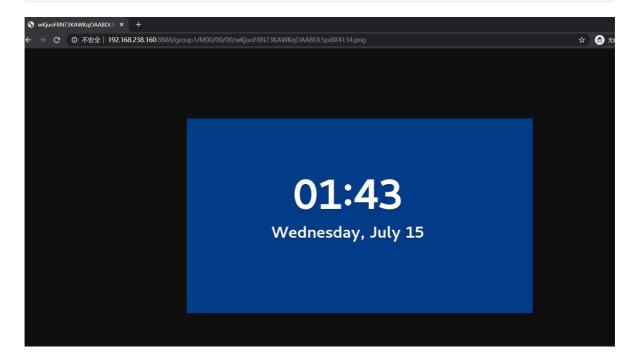
chmod -R 777 /home/fastdfs/data/

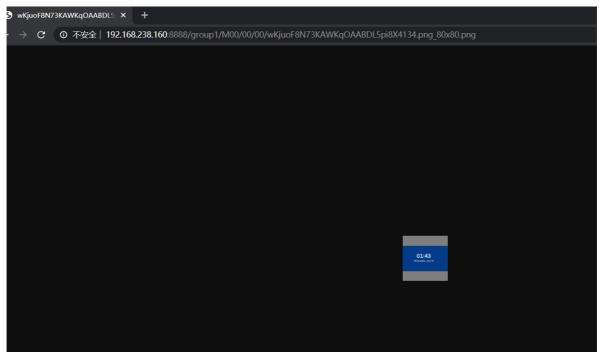
/usr/local/nginx/sbin/nginx -s reload ##访问测试 http://192.168.238.160:8888/lua



Hello, Lua!

http://192.168.238.160:8888/group1/M00/00/00/wKjuoF8N73KAWKqOAABDL5pi8X4134.png http://192.168.238.160:8888/group1/M00/00/00/wKjuoF8N73KAWKqOAABDL5pi8X4134.png_ 80x80.png





安装过程遇到的问题

解决:

1.编译安装Lua出现:lua.c:80:31: fatal error: readline/readline.h: No such file or directory

```
yum install readline-devel
```