



链滴

centos7 下的 FastDFS5.11 的安装与使用

作者: [centrexzj](#)

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centos7.4下的FastDFS5.11和tengine2.2.2(nginx1.8.1的安装与使用

FastDFS是一款开源的轻量级分布式文件系统，纯C实现，支持Linux、FreeBSD等Unix系统。

类google FS，不是通用的文件系统，只能通过专有API访问。

FastDFS服务端有两种角色：跟踪器(tracker)和存储节点(storage)。

tracker主要做调度工作，在访问上起负载均衡的作用，在内存中记录集群中group和storage的状态信息，是连接client和storage的枢纽。

storage存储服务器，文件和文件属性都保存到存储服务器上。

1. 安装fastdfs

- 下载libfastcommon包

<https://github.com/happyfish100/libfastcommon/releases>

- 下载fastdfs源码包

<https://github.com/happyfish100/fastdfs/releases>

- 安装libfastcommon

```
> tar xf libfastcommon-1.0.36.tar.gz
> cd libfastcommon-1.0.36
> ./make.sh
> ./make.sh install
```

- 安装fastdfs

```
> tar xf fastdfs-5.11.tar.gz
> cd fastdfs-5.11
> ./make.sh
> ./make.sh install
```

如果出现ioevent.h:82:2: #error port me这样的错误，请下载最新版的libfastcommon并安装。

2. 环境说明

创建两台虚拟主机，IP分别为192.168.1.222和192.168.1.233，分别安装fastdfs。

3. fastdfs的配置文件

配置文件默认在/etc/fdfs下

默认脚本在/etc/init.d下

创建两个目录，用来存放数据

```
> mkdir -p /data/fdfs_tracker  
> mkdir -p /data/fdfs_storage
```

复制配置文件

```
> cd /etc/fdfs  
> cp storage.conf.sample storage.conf  
> cp tracker.conf.sample tracker.conf
```

跟踪器的配置文件tracker.conf

```
#绑定IP  
bind_addr=  
#端口  
port=22122  
#连接超时时间  
connect_timeout=30  
#日志数据路径  
base_path=/data/fdfs_tracker  
#上传文件时选择group的方法  
#0:轮询, 1:指定组, 2:选择剩余空间最大  
store_lookup=2  
#如果上面的配置是1, 那么这里必须指定组名  
store_group=group2  
#上传文件时选择server的方法  
#0:轮询, 1:按IP地址排序, 2:通过权重排序  
store_server=0  
#storage上预留空间  
reserved_storage_space = 10%
```

存储节点的配置文件storage.conf

```
#storage server所属组名  
group_name=group1  
#绑定IP  
bind_addr=  
#storage server的端口  
port=23000  
#连接超时时间  
connect_timeout=30  
#日志数据路径  
base_path=/data/fdfs_storage/base  
#storage path的个数  
store_path_count=2  
#根据store_path_count的值, 就要有storage0到storage(N-1)个  
store_path0=/data/fdfs_storage/storage0  
store_path1=/data/fdfs_storage/storage1  
#跟踪服务器  
tracker_server=192.168.1.222:22122  
tracker_server=192.168.1.233:22122
```

创建目录，不然会出错

```
> mkdir -p /data/fdfs_storage/base
> mkdir -p /data/fdfs_storage/storage0
> mkdir -p /data/fdfs_storage/storage1
```

启动服务

```
> /etc/init.d/fdfs_trackerd start
> /etc/init.d/fdfs_storaged start
```

查看服务是否启动

```
> ps -ef|grep fdfs
> netstat -nltp
```

4. 测试fastdfs

配置client文件

```
> cd /etc/fdfs
> cp client.conf.sample client.conf
> vi client.conf
```

#存放日志目录

base_path=/data/client

#跟踪服务器

tracker_server=192.168.1.222:22122

tracker_server=192.168.1.233:22122

创建client目录

```
> mkdir -p /data/client
```

通过fdfs_upload_file来测试(如果发生错误, 请查看防火墙)

```
> echo "12345678" >> /data/1.txt
> fdfs_upload_file /etc/fdfs/client.conf /data/1.txt
```

通过fdfs_download_file下载我们刚上传的文件

```
> fdfs_download_file /etc/fdfs/client.conf group1/M00/00/00/wKgB3li3a2mAejYPAAAADok0
hY177.txt
```

查看文件信息

```
> fdfs_file_info /etc/fdfs/client.conf group1/M00/00/00/wKgB3li3a2mAejYPAAAADok0NhY177
txt
```

追加文件

```
> echo "hello" >> /data/2.txt
> fdfs_upload_appender /etc/fdfs/client.conf /data/1.txt
> fdfs_append_file /etc/fdfs/client.conf group1/M00/00/00/wKgB3li3bxCEAcqhAAAAAIk0NhY
69.txt /data/2.txt
```

删除文件

```
> fdfs_delete_file /etc/fdfs/client.conf group1/M00/00/00/wKgB3li3a2mAejYPAAAADok0NhY77.txt
```

查看集群

```
> fdfs_monitor /etc/fdfs/client.conf
```

5. 安装engine2.2.2支持fastdfs

下载fastdfs-nginx-module:

http://jaist.dl.sourceforge.net/project/fastdfs/FastDFS%20Nginx%20Module%20Source%20Code/fastdfs-nginx-module_v1.16.tar.gz

解压到:

```
[root@localhost modules]# ll
总用量 20
drwxrwxr-x. 3 500 500 47 5月 4 2014 fastdfs-nginx-module
-rw-r--r--. 1 root root 17510 5月 5 2014 fastdfs-nginx-module_v1.16.tar.gz
drwxr-xr-x. 3 128966 users 127 1月 26 15:32 ngx_debug_pool
drwxr-xr-x. 9 128966 users 203 1月 26 15:32 ngx_http_lua_module
drwxr-xr-x. 2 128966 users 134 1月 26 15:32 ngx_http_upstream_keepalive_module
drwxr-xr-x. 3 128966 users 121 1月 26 15:32 ngx_slab_stat
[root@localhost modules]# pwd
/usr/local/src/tengine-2.2.2/modules
[root@localhost modules]#
```

参考: [CentOS 7.1编译安装Tengine](#)

需要注意的是:

- 安装libfastcommon, fastdfs后需要copy头文件到fastdfs-nginx-module里面

```
cp -r /usr/include/fastdfs/ /usr/local/src/tengine-2.2.2/modules/fastdfs-nginx-module/src/
```

```
cp -r /usr/include/fastcommon/* /usr/local/src/tengine-2.2.2/modules/fastdfs-nginx-module/src/
```

- 编译命令, 增加ipv6

```
./configure --prefix=/usr/local/nginx --user=www --group=www --with-pcre=/usr/local/src/pcre-8.39 --with-openssl=/usr/local/src/openssl-1.0.2j --with-jemalloc=/usr/local/src/jemalloc-4.0 --with-http_gzip_static_module --with-http_realip_module --with-http_stub_status_module --with-http_concat_module --with-zlib=/usr/local/src/zlib-1.2.11 --with-ipv6 --add-module=/usr/local/src/tengine-2.2.2/modules/fastdfs-nginx-module/src
```

```
make -j8
```

```
make install
```

- 查看engine安装模块

```
[root@localhost nginx]# ./sbin/nginx -V
Engine version: Engine/2.2.2 (nginx/1.8.1)
built by gcc 4.8.5 20150623 (Red Hat 4.8.5-16) (GCC)
TLS SNI support enabled
configure arguments: --prefix=/usr/local/nginx --user=www --group=www --with-pcre=/usr/
ocal/src/pcre-8.39 --with-openssl=/usr/local/src/openssl-1.0.2j --with-jemalloc=/usr/local/src
jemalloc-4.4.0 --with-http_gzip_static_module --with-http_realip_module --with-http_stub_sta
us_module --with-http_concat_module --with-zlib=/usr/local/src/zlib-1.2.11 --with-ipv6 --add
module=/usr/local/src/engine-2.2.2/modules/fastdfs-nginx-module/src
nginx: loaded modules:
nginx:   ngx_core_module (static)
nginx:   ngx_errlog_module (static)
nginx:   ngx_conf_module (static)
nginx:   ngx_dso_module (static)
nginx:   ngx_events_module (static)
nginx:   ngx_event_core_module (static)
nginx:   ngx_epoll_module (static)
nginx:   ngx_procs_module (static)
nginx:   ngx_proc_core_module (static)
nginx:   ngx_openssl_module (static)
nginx:   ngx_regex_module (static)
nginx:   ngx_http_module (static)
nginx:   ngx_http_core_module (static)
nginx:   ngx_http_log_module (static)
nginx:   ngx_http_upstream_module (static)
nginx:   ngx_http_static_module (static)
nginx:   ngx_http_gzip_static_module (static)
nginx:   ngx_http_autoindex_module (static)
nginx:   ngx_http_index_module (static)
nginx:   ngx_http_concat_module (static)
nginx:   ngx_http_auth_request_module (static)
nginx:   ngx_http_auth_basic_module (static)
nginx:   ngx_http_access_module (static)
nginx:   ngx_http_limit_conn_module (static)
nginx:   ngx_http_limit_req_module (static)
nginx:   ngx_http_realip_module (static)
nginx:   ngx_http_geo_module (static)
nginx:   ngx_http_map_module (static)
nginx:   ngx_http_split_clients_module (static)
nginx:   ngx_http_referer_module (static)
nginx:   ngx_http_rewrite_module (static)
nginx:   ngx_http_ssl_module (static)
nginx:   ngx_http_proxy_module (static)
nginx:   ngx_http_fastcgi_module (static)
nginx:   ngx_http_uwsgi_module (static)
nginx:   ngx_http_scgi_module (static)
nginx:   ngx_http_memcached_module (static)
nginx:   ngx_http_empty_gif_module (static)
nginx:   ngx_http_browser_module (static)
nginx:   ngx_http_user_agent_module (static)
nginx:   ngx_http_upstream_hash_module (static)
nginx:   ngx_http_upstream_ip_hash_module (static)
```

```
nginx: ngx_http_upstream_consistent_hash_module (static)
nginx: ngx_http_upstream_check_module (static)
nginx: ngx_http_upstream_least_conn_module (static)
nginx: ngx_http_upstream_keepalive_module (static)
nginx: ngx_http_upstream_dynamic_module (static)
nginx: ngx_http_stub_status_module (static)
nginx: ngx_http_fastdfs_module (static)
nginx: ngx_http_write_filter_module (static)
nginx: ngx_http_header_filter_module (static)
nginx: ngx_http_chunked_filter_module (static)
nginx: ngx_http_range_header_filter_module (static)
nginx: ngx_http_gzip_filter_module (static)
nginx: ngx_http_postpone_filter_module (static)
nginx: ngx_http_ssi_filter_module (static)
nginx: ngx_http_charset_filter_module (static)
nginx: ngx_http_userid_filter_module (static)
nginx: ngx_http_footer_filter_module (static)
nginx: ngx_http_trim_filter_module (static)
nginx: ngx_http_headers_filter_module (static)
nginx: ngx_http_upstream_session_sticky_module (static)
nginx: ngx_http_reqstat_module (static)
nginx: ngx_http_copy_filter_module (static)
nginx: ngx_http_range_body_filter_module (static)
nginx: ngx_http_not_modified_filter_module (static)
[root@localhost nginx]#
```