安装FastDFS

资源

```
FastDFS相关资源在：中公教育\第四阶段授课资料--视频2019-6-5\优乐选课件--2019-6-13\资源
\fastDFS
```

上传文件

```
[root@container ~]# ll
总用量 1944
-rw-------. 1 root root   1229 2月  27 2019 anaconda-ks.cfg
-rw-r--r--. 1 root root 421773 7月  10 23:28 fastdfs-5.11.zip
-rw-r--r--. 1 root root  75491 7月  10 23:28 fastdfs-client-java-master.zip
-rw-r--r--. 1 root root  22192 7月  10 23:28 fastdfs-nginx-module-master.zip
-rw-r--r--. 1 root root 478888 7月  10 23:28 libfastcommon-master.zip
-rw-r--r--. 1 root root 980831 7月  10 23:28 nginx-1.12.0.tar.gz
```

安装libfastcommon

安装unzip，zip

```
[root@container ~]# yum -y install unzip zip
```

安装GCC

```
[root@container ~]# yum -y install gcc-c++
```

解压

```
[root@container ~]# unzip libfastcommon-master.zip
```

进入目录

```
[root@container ~]# cd libfastcommon-master
```

编译

```
[root@container libfastcommon-master]# ./make.sh
```

安装

```
[root@container libfastcommon-master]# ./make.sh install
```

创建快捷方式

```
[root@container libfastcommon-master]# ln -s /usr/lib64/libfastcommon.so
/usr/local/lib/libfastcommon.so
[root@container libfastcommon-master]# ln -s /usr/lib64/libfdfsclient.so
/usr/local/lib/libfdfsclient.so
[root@container libfastcommon-master]# ln -s /usr/lib64/libfdfsclient.so
/usr/lib/libfdfsclient.so
```

安装FastDFS

安装Perl支持

```
[root@container fastdfs-5.11]# yum install perl -y
```

解压

```
[root@container ~]# unzip fastdfs-5.11.zip
```

进入目录

```
[root@container ~]# cd fastdfs-5.11
```

编译

```
[root@container fastdfs-5.11]# ./make.sh
```

安装

```
[root@container fastdfs-5.11]# ./make.sh install
```

进入目录

```
[root@container fastdfs-5.11]# cd /etc/fdfs/
```

创建配置文件

```
[root@container fdfs]# ll
总用量 24
-rw-r--r--. 1 root root 1461 12月 26 11:31 client.conf.sample
-rw-r--r--. 1 root root 7927 12月 26 11:31 storage.conf.sample
-rw-r--r--. 1 root root  105 12月 26 11:31 storage_ids.conf.sample
-rw-r--r--. 1 root root 7389 12月 26 11:31 tracker.conf.sample
[root@container fdfs]# cp client.conf.sample client.conf
[root@container fdfs]# cp storage.conf.sample storage.conf
[root@container fdfs]# cp storage_ids.conf.sample storage_ids.conf
[root@container fdfs]# cp tracker.conf.sample tracker.conf
[root@container fdfs]# ll
总用量 48
```

```
-rw-r--r--. 1 root root 1461 12月 26 11:33 client.conf
-rw-r--r--. 1 root root 1461 12月 26 11:31 client.conf.sample
-rw-r--r--. 1 root root 7927 12月 26 11:33 storage.conf
-rw-r--r--. 1 root root 7927 12月 26 11:31 storage.conf.sample
-rw-r--r--. 1 root root  105 12月 26 11:33 storage_ids.conf
-rw-r--r--. 1 root root  105 12月 26 11:31 storage_ids.conf.sample
-rw-r--r--. 1 root root 7389 12月 26 11:33 tracker.conf
-rw-r--r--. 1 root root 7389 12月 26 11:31 tracker.conf.sample
```

安装tracker

创建ctracker工作目录

```
[root@container fdfs]# mkdir -p  /usr/local/fdfs/tracker
```

进入目录

```
[root@container fdfs]# cd /etc/fdfs
```

关注以下内容

```
[root@container fdfs]# cat tracker.conf
1.disabled=false #默认开启
2.port=22122 #默认端口号
3.base_path=/usr/local/fdfs/tracker  #我刚刚创建的目录
4.http.server_port=6666  #默认端口是8080
```

启动

```
[root@container fdfs]# service fdfs_trackerd start
Reloading systemd:                                         [  确定  ]
Starting fdfs_trackerd (via systemctl):                    [  确定  ]
```

设置开机启动

进入目录

```
[root@container fdfs]# cd /etc/rc.d/
[root@container rc.d]# ll
总用量 4
drwxr-xr-x. 2 root root 112 12月 26 11:31 init.d
drwxr-xr-x. 2 root root  45 8月   9 07:52 rc0.d
drwxr-xr-x. 2 root root  45 8月   9 07:52 rc1.d
drwxr-xr-x. 2 root root  45 8月   9 07:52 rc2.d
drwxr-xr-x. 2 root root  45 8月   9 07:52 rc3.d
drwxr-xr-x. 2 root root  45 8月   9 07:52 rc4.d
drwxr-xr-x. 2 root root  45 8月   9 07:52 rc5.d
drwxr-xr-x. 2 root root  45 8月   9 07:52 rc6.d
-rw-r--r--. 1 root root 473 10月 19 00:48 rc.local
```

添加执行权限

```
[root@container rc.d]# chmod +x rc.local
[root@container rc.d]# ll
总用量 4
drwxr-xr-x. 2 root root 112 12月 26 11:31 init.d
drwxr-xr-x. 2 root root  45 8月   9 07:52 rc0.d
drwxr-xr-x. 2 root root  45 8月   9 07:52 rc1.d
drwxr-xr-x. 2 root root  45 8月   9 07:52 rc2.d
drwxr-xr-x. 2 root root  45 8月   9 07:52 rc3.d
drwxr-xr-x. 2 root root  45 8月   9 07:52 rc4.d
drwxr-xr-x. 2 root root  45 8月   9 07:52 rc5.d
drwxr-xr-x. 2 root root  45 8月   9 07:52 rc6.d
-rwxr-xr-x. 1 root root 473 10月 19 00:48 rc.local
```

修改rc.local

```
[root@container rc.d]# vi  /etc/rc.d/rc.local
```

追加

```
service fdfs_trackerd start
```

：wq保存退出

安装网络工具包

```
[root@container rc.d]# yum install net-tools -y
```

检查端口

```
[root@container fdfs]# netstat -antp |grep fdfs
tcp        0      0 0.0.0.0:22122           0.0.0.0:*               LISTEN
 44848/fdfs_trackerd
```

安装storage

配置工作目录

```
[root@container fdfs]# mkdir -p /usr/local/fdfs/storage
[root@container fdfs]# mkdir -p  /usr/local/fdfs/storage_data
```

修改storage配置文件

```
[root@container fdfs]# vi /etc/fdfs/storage.conf
```

修改以下内容：

```
disabled=false
group_name=group1 #组名，根据实际情况修改
port=23000 #设置storage的端口号，默认是23000，同一个组的storage端口号必须一致
base_path=/usr/local/fdfs/storage  #设置storage数据文件和日志目录
store_path_count=1 #存储路径个数，需要和store_path个数匹配
store_path0=/usr/local/fdfs/storage_data  #实际文件存储路径
tracker_server=192.168.122.133:22122  #我CentOS7的ip地址
http.server_port=8888  #设置 http 端口号
```

创建快捷方式

```
[root@container fdfs]# ln -s /usr/bin/fdfs_storaged  /usr/local/bin/
```

启动服务

```
[root@container fdfs]# service fdfs_storaged start
Starting fdfs_storaged (via systemctl):                    [  确定  ]
```

开机启动

修改rc.local

```
[root@container fdfs]# vi /etc/rc.d/rc.local
```

追加

```
service fdfs_storaged start
```

：wq保存

检查端口

```
[root@container fdfs]# netstat -antp|grep fdfs
tcp        0      0 0.0.0.0:22122           0.0.0.0:*               LISTEN
 44848/fdfs_trackerd
tcp        0      0 0.0.0.0:23000           0.0.0.0:*               LISTEN
 45016/fdfs_storaged
tcp        0      0 192.168.122.133:60508   192.168.122.133:22122   ESTABLISHED
45016/fdfs_storaged
tcp        0      0 192.168.122.133:22122   192.168.122.133:60508   ESTABLISHED
44848/fdfs_trackerd
```

校验整合

```
[root@container fdfs]# /usr/bin/fdfs_monitor /etc/fdfs/storage.conf
[2019-12-26 12:04:06] DEBUG - base_path=/usr/local/fdfs/storage,
connect_timeout=30, network_timeout=60, tracker_server_count=1,
anti_steal_token=0, anti_steal_secret_key length=0, use_connection_pool=0,
g_connection_pool_max_idle_time=3600s, use_storage_id=0, storage server id
count: 0
```

```
server_count=1, server_index=0

tracker server is 192.168.122.133:22122

group count: 1

Group 1:
group name = group1
disk total space = 17394 MB
disk free space = 15685 MB
trunk free space = 0 MB
storage server count = 1
active server count = 1
storage server port = 23000
storage HTTP port = 8888
store path count = 1
subdir count per path = 256
current write server index = 0
current trunk file id = 0

        Storage 1:
                id = 192.168.122.133
                ip_addr = 192.168.122.133 (container)  ACTIVE
                http domain =
                version = 5.11
                join time = 2019-12-26 12:01:51
                up time = 2019-12-26 12:01:51
                total storage = 17394 MB
                free storage = 15685 MB
                upload priority = 10
                store_path_count = 1
                subdir_count_per_path = 256
                storage_port = 23000
                storage_http_port = 8888
                current_write_path = 0
                source storage id =
                if_trunk_server = 0
                connection.alloc_count = 256
                connection.current_count = 0
                connection.max_count = 0
                total_upload_count = 0
                success_upload_count = 0
                total_append_count = 0
                success_append_count = 0
                total_modify_count = 0
                success_modify_count = 0
                total_truncate_count = 0
                success_truncate_count = 0
                total_set_meta_count = 0
                success_set_meta_count = 0
                total_delete_count = 0
                success_delete_count = 0
                total_download_count = 0
                success_download_count = 0
                total_get_meta_count = 0
                success_get_meta_count = 0
                total_create_link_count = 0
                success_create_link_count = 0
```

```
                total_delete_link_count = 0
                success_delete_link_count = 0
                total_upload_bytes = 0
                success_upload_bytes = 0
                total_append_bytes = 0
                success_append_bytes = 0
                total_modify_bytes = 0
                success_modify_bytes = 0
                stotal_download_bytes = 0
                success_download_bytes = 0
                total_sync_in_bytes = 0
                success_sync_in_bytes = 0
                total_sync_out_bytes = 0
                success_sync_out_bytes = 0
                total_file_open_count = 0
                success_file_open_count = 0
                total_file_read_count = 0
                success_file_read_count = 0
                total_file_write_count = 0
                success_file_write_count = 0
                last_heart_beat_time = 2019-12-26 12:03:55
                last_source_update = 1970-01-01 08:00:00
                last_sync_update = 1970-01-01 08:00:00
                last_synced_timestamp = 1970-01-01 08:00:00
[root@container fdfs]#
```

测试文件上传

配置客户端

```
[root@container fdfs]# vi /etc/fdfs/client.conf
```

修改

```
base_path=/usr/local/fdfs/tracker  #tracker服务器文件路径
tracker_server=192.168.188.146:22122 #tracker服务器IP地址和端口号
http.tracker_server_port=6666 # tracker 服务器的http端口号,必须和tracker的设置对应起来
```

：wq保存退出

模拟上传

```
[root@container fdfs]# /usr/bin/fdfs_upload_file  /etc/fdfs/client.conf /root/50.jpg
group1/M00/00/00/wKh6hV4ERD6AbRMcAAGl7NHhRM4664.jpg
```

查找

```
[root@container 00]# pwd
/usr/local/fdfs/storage_data/data/00/00
[root@container 00]# ll
总用量 108
-rw-r--r--. 1 root root 108012 12月 26 13:25 wKh6hV4ERD6AbRMcAAGl7NHhRM4664.jpg
```

安装nginx及插件

安装依赖

```
[root@container 00]# yum -y install pcre pcre-devel
[root@container 00]# yum -y install zlib zlib-devel
[root@container 00]# yum -y install openssl openssl-devel
```

解压nginx文件

```
[root@container ~]# tar -zxvf nginx-1.12.0.tar.gz
```

解压nginx插件

```
[root@container ~]# unzip fastdfs-nginx-module-master.zip
```

进入目录

```
[root@container nginx-1.12.0]# cd /root/nginx-1.12.0
```

配置nginx安装的插件

```
[root@container nginx-1.12.0]# ./configure --prefix=/usr/local/nginx --add-
module=/root/fastdfs-nginx-module-master/src
```

编译，安装

```
[root@container nginx-1.12.0]# make
[root@container nginx-1.12.0]# make install
```

配置storage nginx

进入目录

```
[root@container nginx]# cd /usr/local/nginx/conf
```

修改配置

```
[root@container conf]# vi nginx.conf
```

配置

```
server {
        listen       9999;
        server_name  localhost;

        location / {
            root   html;
            index  index.html index.htm;
        }

        location ~/group1/M00 {
            root /usr/local/fdfs/storage_data/data;
            ngx_fastdfs_module;
        }

        location = /50x.html {
            root   html;
        }
}
```

：wq保存退出

拷贝http.conf,mime.types

```
[root@container conf]# cd /root/fastdfs-5.11/conf
[root@container conf]# cp http.conf /etc/fdfs/
[root@container conf]# cp mime.types /etc/fdfs/
```

拷贝mod_fastdfs.conf

```
[root@container conf]# cd /root/fastdfs-nginx-module-master/src
[root@container src]# cp mod_fastdfs.conf /etc/fdfs/
```

修改mod_fastdfs.conf

```
[root@container src]# vi /etc/fdfs/mod_fastdfs.conf
```

修改

```
base_path=/usr/local/fdfs/storage  #保存日志目录
tracker_server=192.168.188.146:22122 #tracker服务器的IP地址以及端口号
storage_server_port=23000 #storage服务器的端口号
url_have_group_name = true #文件 url 中是否有 group 名
store_path0=/usr/local/fdfs/storage_data   #存储路径
group_count = 1  #设置组的个数，事实上这次只使用了group1
```

追加

```
[group1]
group_name=group1
storage_server_port=23000
store_path_count=1
store_path0=/usr/local/fdfs/storage_data
```

创建M00至storage存储目录的符号连接

```
[root@container src]# ln  -s  /usr/local/fdfs/storage_data/data/
/usr/local/fdfs/storage_data/data/M00
```

启动nginx

```
[root@container src]# /usr/local/nginx/sbin/nginx
ngx_http_fastdfs_set pid=47828
```

设置开机自动启动nginx

```
[root@container src]# vi /etc/rc.d/rc.local
#!/bin/bash
# THIS FILE IS ADDED FOR COMPATIBILITY PURPOSES
#
# It is highly advisable to create own systemd services or udev rules
# to run scripts during boot instead of using this file.
#
# In contrast to previous versions due to parallel execution during boot
# this script will NOT be run after all other services.
#
# Please note that you must run 'chmod +x /etc/rc.d/rc.local' to ensure
# that this script will be executed during boot.

touch /var/lock/subsys/local
service fdfs_trackerd start
service fdfs_storaged start
/usr/local/nginx/sbin/nginx
```

停止并禁用防火墙

```
[root@container src]# systemctl stop firewalld.service
[root@container src]# systemctl disable  firewalld.service
Removed symlink /etc/systemd/system/multi-user.target.wants/firewalld.service.
Removed symlink /etc/systemd/system/dbus-org.fedoraproject.FirewallD1.service.
```

访问

```
http://192.168.122.133:9999/
```

安装第二个nginx

解压nginx

```
[root@container src]# cd ~
[root@container ~]# mkdir nginx2
[root@container ~]# tar -xvf nginx-1.12.0.tar.gz -C /root/nginx2
```

配置

```
[root@container ~]# cd /root/nginx2/nginx-1.12.0
[root@container nginx-1.12.0]# ./configure --prefix=/usr/local/nginx2 --add-module=/root/fastdfs-nginx-module-master/src
```

编译并安装

```
[root@container nginx-1.12.0]# make
[root@container nginx-1.12.0]# make install
```

修改配置

```
[root@container nginx-1.12.0]# cd /usr/local/nginx2/conf
[root@container conf]# vi nginx.conf
```

修改

```
http {
    #新增
    upstream fdfs_group1 {
        server 127.0.0.1:9999;
    }
    server {
        listen       80;
        server_name  localhost;

        #charset koi8-r;

        #access_log  logs/host.access.log  main;

        #location / {
        #    root   html;
        #    index  index.html index.htm;
        #}
        #新增
        location /group1/M00 {
            proxy_pass http://fdfs_group1;
        }

        #error_page  404              /404.html;
```

启动nginx

```
[root@container conf]# /usr/local/nginx2/sbin/nginx
```

添加开机启动

```
[root@container src]# vi /etc/rc.d/rc.local
```

追加

```
/usr/local/nginx2/sbin/nginx
```

：wq退出

访问

```
http://192.168.122.133/
```

HTTP验证

```
http://192.168.122.133/group1/M00/00/00/wKh6hV4ERD6AbRMcAAGl7NHhRM4664.jpg
```