```
# File name : PhaseI. fkoo. website. testing
# Description: fkoo一期网站系统架构虚拟实现
 Requirement: Vmware workstation *1 (含 VMware-Tools Linux.iso)
            Windows XP PC *1
            RHEL5.1 ISO光盘文件
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 Author: Far Young Chen / fkoo (fkoo.com@gmail.com)
 URL: http://www.fkoo.net
Network Layout
{ Client LAN }
                         -- 192. 168. 1. 0 / 255. 255. 255. 0 --
         eth0 192, 168, 1, 248
                                                   eth0 192, 168, 1, 249
               Web Server
                                                   Picture Server
            Hostname WEB248
                                                   Hostname IMG249
                                              Lighttpd
                      Apache
                        PHP
                                                PHP
                      FastCgi
                                              FastCgi
                    eAccelerator
                                            eAccelerator
                      Memcach
                                              Memcach
                     Memcached
                                               Mysql
                      Sqlrelay
                                              Sqlrelay
                       Mysq1
                                              Memcached
         Mysql Master/Writer
                                                    Mysql Slave/Reader
                         |-10. 0. 0. 6-----
                                                    Mogilefs Traker & Storage
            Mogilefs Traker
                              Heartbeat/Replication
                                                    eth1 10.0.0.2
             eth1 10.0.0.1
                     ----SYNC LAN 10.0.0.0 / 255.255.255.248 ----
              -- 初始化安装,VMware虚机名为: WEB248 ------
```

```
# 缩短启动选择菜单的等待时间为 1 秒
#(单CPU、32位系统环境下)添加 clock=pit nosmp noapic nolapic; 解决Vmware下linux时间跑快及跑慢的问题
# vi /etc/grub.conf
timeout=1
kernel /vmlinuz-2.6.18-53.el5 ... rhgb quiet clock=pit nosmp noapic nolapic
# 开启VMware客户机与主机(寄主)之间的时间同步
# 启动 vmware-tools 服务,并设置为默认启动
vmware-guestd --cmd "vmx. set option synctime 0 1"
service vmware-tools start
chkconfig vmware-tools on
# 查看系统时间
# date
  # 挂载上软件代码光盘包 "PhaseII. fkoo"
mount /dev/cdrom /mnt/cdrom
# 安装mysq15.1.30 稳定版
cd /tmp
tar -zxvf /mnt/cdrom/mysql-5.1.30-linux-i686-icc-glibc23.tar.gz
groupadd mysgl
useradd -g mysql -s /sbin/nologin mysql
mv mysql-5.1.30-linux-i686-icc-glibc23 /usr/local/mysql
cd /usr/local/mysql
chown -R root .
chown -R mysql data
chgrp -R mysql.
scripts/mysql install db --user=mysql
cp /usr/local/mysql/support-files/mysql.server /etc/rc.d/init.d/mysql
#cp /usr/local/mvsql/support-files/mv-innodb-heavy-4G.cnf /etc/mv.cnf
cp /usr/local/mvsql/support-files/mv-huge.cnf /etc/mv.cnf
chmod +x /etc/rc.d/init.d/mysal
chkconfig --del mysql
chkconfig --add mysql
chkconfig mysql on
# /usr/local/mysql/bin/mysqld safe --user=mysql &
service mysql start
/usr/local/mysql/bin/mysqladmin -u root password 'rvdgi, jl'
```

```
#给 mysql 命令增加系统环境变量 /usr/local/mysql/bin
# vi /etc/profile
export PATH="$PATH:/usr/local/mysql/bin"
# 安装libunwind (64位需要安装, 32位不用)
cd /tmp/
tar zxvf /mnt/cdrom/libunwind-snap-070410.tar.gz
cd libunwind-snap-070410/
./configure
make && make install
cd ..
#安装TCMalloc (Thread-Caching Malloc),提高MySQL服务器在高并发情况下的性能.
cd /tmp/
tar zxvf /mnt/cdrom/google-perftools-1.0rc2.tar.gz
cd google-perftools-1.0rc2/
./configure
make && make install
cd ..
rm -rf google-perftools-1.0rc2
# 修改MvSQL启动脚本(根据你的MvSQL安装位置而定):
vi /usr/local/mysql/bin/mysqld safe
# 在# executing mysqld safe的下一行,加上:
export LD_PRELOAD=/usr/local/lib/libtcmalloc.so
#保存后退出,然后重启MvSQL服务器。
service mysql restart
# 使用 1sof 命令查看tcmalloc是否起效:
/usr/sbin/lsof -n | grep tcmalloc
如果发现以下信息,说明tcmalloc已经起效:
mysqld
        10847
                                         8, 5 1203756
                                                      20484960 /usr/local/lib/libtcmalloc. so. 0. 0. 0
               mysql mem
                               REG
# 定时校正服务器时钟, 定时与中国国家授时中心授时服务器同步
# crontab -e
加入一行:
15 3 * * * /usr/sbin/ntpdate 210.72.145.44 > /dev/null 2>&1
# 安装openss1
tar xvfz /mnt/cdrom/openss1-0.9.8i.tar.tar
cd openss1-0.9.8i
./config
```

```
make
make install
cd /usr/local/bin
ln -s /usr/local/ssl/bin/openssl openssl
cd ..
rm -rf openss1-0.9.8i*
# 安装 zlib
cd /tmp
tar zxvf /mnt/cdrom/zlib-1.2.3. tar. gz
cd zlib-1.2.3
./configure
make
make install
cd ..
rm -rf zlib-1.2.3*
# 安装 libpng
cd /tmp
tar -zxvf /mnt/cdrom/libpng-1.2.34.tar.gz
cd libpng-1.2.34
cp scripts/makefile.std makefile
make
make install
cd ..
rm -rf libpng-1.2.34*
# 安装 libjpeg
echo -n "Install libjpeg ..."
cd /tmp
tar zxvf /mnt/cdrom/jpegsrc.v6b.tar.gz
cd jpeg-6b
# 建立必须的目录 #
mkdir /usr/local/jpeg
mkdir /usr/local/jpeg/include
mkdir /usr/local/jpeg/lib
mkdir /usr/local/jpeg/bin
mkdir /usr/local/jpeg/man/
mkdir /usr/local/jpeg/man/man1/
#编译安装,设定安装目录为 /usr/local/jpeg #
./configure --prefix=/usr/local/jpeg --enable-shared --enable-static
make
make install
```

```
cd ..
rm -rf jpeg*
# 安装 freetype
echo -n "Install freetype ..."
cd /tmp
tar zxvf /mnt/cdrom/freetype-2.3.7.tar.gz
cd freetype-2.3.7
#编译安装,设定安装目录为 /usr/local/freetype #
./configure --prefix=/usr/local/freetype
make
make install
cd ..
rm -rf freetype-2.3.7*
# 安装 libxm12
cd /tmp
tar xzvf /mnt/cdrom/libxml2-2.7.2. tar. gz
cd libxm12-2.7.2
#编译安装,设定安装目录为 /usr/local/libxml2 #
./configure -prefix=/usr/local/libxml2
make
make install
cd ..
rm -rf libxm12-2.7.2*
# 安装 libmcrypt
cd /tmp
tar zxvf /mnt/cdrom/libmcrypt-2.5.8.tar.gz
cd libmcrypt-2.5.8
#编译安装,设定安装目录为 /usr/local/libmcrypt2 #
./configure --prefix=/usr/local/libmcrypt2
make
make install
# install libltdl
cd libltdl
./configure --enable-ltdl-install
make
make install
cd ../..
rm -rf libmcrypt-2.5.8*
# 安装 fontconfig
```

```
cd /tmp
tar zxvf /mnt/cdrom/fontconfig-2.6.0. tar.gz
cd fontconfig-2.6.0
#编译安装,设定安装目录为 /usr/local/fontconfig; 指定 freetype 的实际安装目录 /usr/local/freetype/bin/freetype-config
###########
./configure --prefix=/usr/local/fontconfig \
--with-freetype-config=/usr/local/freetype/bin/freetype-config
make
make install
cd ..
rm -rf fontconfig-2.6.0*
# 安装 gd
cd /tmp
tar jxvf /mnt/cdrom/gd-2.0.36RC1.tar.bz2
cd gd-2.0.36RC1
#编译安装,设定安装目录为 /usr/local/gd; 指定 png, jpeg, freetype, zlib, fontconfig 安装路径为实际安装目录. 如前
./configure -prefix=/usr/local/gd \
--with-png=/usr/local/lib/ \
--with-jpeg=/usr/local/jpeg/ \
--with-freetype=/usr/local/freetype/ \
--with-zlib \
--with-fontconfig=/usr/local/fontconfig
make
make install
cd ..
rm -rf gd-2.0.36RC1*
#添加 主机名-IP 的本地解析
# vi /etc/hosts
192, 168, 1, 248
                      WEB248
10. 0. 0. 1
                      WEB248
192, 168, 1, 249
                      IMG249
10. 0. 0. 2
                      IMG249
   ------ 标记安装步骤: WEB248 U1 ------- 标记安装步骤: WEB248 U1
## 安装 apache #
cd /tmp
tar ixvf /mnt/cdrom/httpd-2.2.11.tar.bz2
cd httpd-2.2.11
./configure --prefix=/usr/local/apache \
```

```
--with-mpm=worker \
--enable-rewrite \
--enable-so \
--enable-ssl --with-ssl=/usr/local/ssl/ \
--enable-cgi \
--enable-cache \
--enable-disk-cache \
--enable-mem-cache \
--enable-file-cache \
--enable-expires \
--enable-proxy \
--enable-proxy-http \
--disable-ipv6 \
--sysconfdir=/etc/httpd
make
make install
# 加载 mod rewrit 模块 ###
cd modules/mappers/
/usr/local/apache/bin/apxs -c mod_rewrite.c -lgdbm
gcc -shared -o mod rewrite. so mod rewrite. o -lgdbm
/usr/local/apache/bin/apxs -i -A -n mod rewrite mod rewrite.so
# 删除安装源文件 ###
cd ../../..
rm -rf httpd-2.2.11*
# 从主机共享目录复制 httpd 服务启动脚本到客户机的服务启动目录,设置为可执行 ###
cp /mnt/cdrom/httpd. apache /etc/rc. d/init. d/httpd
chmod 755 /etc/rc.d/init.d/httpd
#添加 httpd 服务,设定默认为关闭 ###
chkconfig --add httpd
chkconfig httpd on
service httpd start
# 测试 httpd 服务是否安装正常 ###
/usr/local/apache/bin/httpd -t
# 查看 apache 加载的模块: 版本 ###
/usr/local/apache/bin/httpd -1
/usr/local/apache/bin/httpd -v
   # 安装pcre库 (支持 lighttpd 或 nginx 的 rewrite 模块)
tar zxvf /mnt/cdrom/pcre-7.7. tar. gz
cd pcre-7.7
```

```
./configure
make && make install
cd ..
rm -rf pcre-7.7*
# 关闭 SELinux
# more /etc/sysconfig/selinux
SELINUX=disabled
# 安装 php
cd /tmp
tar -jxvf /mnt/cdrom/php-5.2.8. tar. bz2
cd php-5.2.8
patch -p1 < /mnt/cdrom/php-5.2.8-fpm-0.5.10.diff
#编译安装,设定安装目录为 /usr/local/php-fcgi; 指定各支持包的安装路径为实际安装目录. 如前
# php支持 CGI/FastCGI需要 php-cgi 命令工具,因此编译安装不能加 --disable-cli ; 不能添加为 apache2handler 支持的
./configure \
--prefix=/usr/local/php-fcgi \
--with-mysql=/usr/local/mysql \
--with-pdo-mysql=/usr/local/mysql/bin/mysql config \
--enable-fastcgi
--enable-force-cgi-redirect \
--with-config-file-path=/usr/local/php-fcgi/etc \
--with-zlib \
--with-zlib-dir \
--with-png-dir=/usr/local/lib \
--with-jpeg-dir=/usr/local/jpeg \
--with-freetype-dir=/usr/local/freetype \
--with-gd=/usr/local/gd \
--with-ttf \
--enable-gd-native-ttf \
--enable-gd-jis-conv \
--with-libxml-dir=/usr/local/libxml2 \
--with-mcrvpt=/usr/local/libmcrvpt2 \
--with-iconv \
--with-openss1 \
--enable-mbstring \
--enable-pdo \
--without-pdo-salite \
--without-salite \
--with-curl \
--with-curlwrappers \
```

```
--enable-xml \
--with-pear \
--enable-magic-quotes \
--enable-fpm \
--enable-ftp \
--with-bz2 \
--enable-sysvsem \
--enable-exif \
--with-pcre-dir \
--disable-ipv6
# 生产环境需要加载的编译参数:
# --disable-debug \
make
make install
cp php. ini-dist /usr/local/php-fcgi/etc/php. ini
cp /mnt/cdrom/phpinfo.php /mnt/hgfs/web/
cd ..
rm -rf php-5.2.8*
# 查看 php-fpm 配置
# vi /usr/local/php-fcgi/etc/php-fpm.conf
# 这个表示php的fastcgi进程监听的ip地址以及端口
<value name="listen address">127.0.0.1:9000</value>
#表示php的fastcgi进程以什么用户以及用户组来运行
# 需要手工去掉注释符 〈!-- *** -->
<value name="user">nobody</value>
<value name="group">nobody</value>
# 是否显示php错误信息
<value name="display errors">0</value>
# 最大的子进程数目
<value name="max children">5</value>
#下面运行php-fpm;现在php的fastcgi进程就已经在后台运行,并监听127.0.0.1的9000端口。
/usr/local/php-fcgi/bin/php-cgi --fpm
# 可以用ps和netstat来看看结果:
ps aux | grep php-cgi
netstat -tpnl | grep php-cgi
# php-fpm 管理程序
/usr/local/php-fcgi/sbin/php-fpm
```

该程序有如下参数: start 启动php的fastcgi进程 stop 强制终止php的fastcgi进程 quit 平滑终止php的fastcgi进程 restart 重启php的fastcgi进程 reload 重新加载php的php.ini logrotate 重新启用log文件 也就是说,在修改了php. ini之后,我们可以使用 /usr/local/php-fcgi/sbin/php-fpm reload 这样,就保持了在php的fastcgi进程持续运行的状态下,又重新加载了php.ini。 # 给 php-fpm 命令增加系统环境变量 /usr/local/php-fcgi/sbin/ # vi /etc/profile export PATH="\$PATH:/usr/local/php-fcgi/sbin/" # 重新登录 # su -#将 php-fpm 加入开机启动项 echo "/usr/local/php-fcgi/sbin/php-fpm start" >> /etc/rc.local cat /etc/rc.local # 安装 CGI/FastCGI - mod fcgid 模块支持 cp /mnt/cdrom/mod fcgid. 2. 2. gz /tmp/ cd /tmp tar zxvf mod fcgid. 2. 2. gz cd mod fcgid. 2. 2 make top dir=/usr/local/apache make install top dir=/usr/local/apache cd .. rm -rf mod fcgid. 2.2* #编辑apache配置文档,支持 mod fcgid # vi /etc/httpd/httpd.conf LoadModule fcgid module modules/mod fcgid.so # 在httpd. conf 中添加 worker 模块参数 # ServerLimit乘以ThreadsPerChild必须大于等于MaxClients。而且MaxClients必须是ThreadsPerChild的整数倍。 #实例为一个每秒并发量在3000-4000左右的网站的设置: ServerLimit乘以ThreadsPerChild正好等于MaxClients <IfModule worker.c> StartServers 10 MaxClients 4096 ServerLimit 128

```
MinSpareThreads 32
       MaxSpareThreads 64
       ThreadLimit 1024
       ThreadsPerChild 32
       MaxRequestsPerChild 0
</IfModule>
<IfModule mod fcgid.c>
       AddHandler fcgid-script .php .py .pl .fcgi
       SocketPath /tmp/fcgid.sock
       IdleTimeout 600
       ProcessLifeTime 3600
       MaxProcessCount 8
       DefaultMinClassProcessCount 3
       DefaultMaxClassProcessCount 3
       IPCConnectTimeout 20
       IPCCommTimeout 48
</IfModule>
<Directory "/usr/local/httpd/htdocs">
   # 注销掉
   #Options Indexes FollowSymLinks
   AllowOverride None
   Order allow, deny
   # 新插入下面3行
   FCGIWrapper /usr/local/php-fcgi/bin/php-cgi.php
   FCGIWrapper /usr/local/php-fcgi/bin/php-cgi .php5
   Options ExecCGI SymLinksIfOwnerMatch
   Allow from all
# 修改 httpd 主目录
DocumentRoot "/mnt/hgfs/web"
<Directory "/mnt/hgfs/web">
# 安装 libevent
cd /tmp/
tar vxzf /mnt/cdrom/libevent-1.4.9-stable.tar.gz
cd libevent-1.4.9-stable/
./configure
make
make install
#建立一个符号连接:
```

```
ln -s /usr/local/lib/libevent-1.4. so. 2 /usr/lib
rm -rf libevent-1.4.9-stable
#安装 memcached 服务器端
cd /tmp/
tar vxzf /mnt/cdrom/memcached-1.2.6. tar. gz
cd memcached-1.2.6/
./configure --prefix=/usr/local/memcached \
--with-libevent=/usr
make
make install
cd ..
rm -rf memcached-1.2.6/
# memcached 启动命令
/usr/local/memcached/bin/memcached -1 10.0.0.1 -d -p 62880 -u nobody -m 20
#表示用 daemon 的方式启动 memcached, 监听在 10.0.0.1 的 62880 端口上, 运行用户为 nobody, 为其分配 20MB 的内存。
# 查看 memcached 选项
# /usr/local/memcached/bin/memcached -h
       -t <num> number of threads to use, default 4
#添加 memcached 为服务
cp /mnt/cdrom/memcached.init /etc/rc.d/init.d/memcached
chmod 755 /etc/rc.d/init.d/memcached
# vi /etc/rc.d/init.d/memcached
       PORT1=62880
       USER=nobody
       MAXCONN=1024
       CACHESTZE=20
       IP ADDR=10.0.0.1
       OPTIONS="-t 8"
#添加绑定IP的选项 -1 $IP ADDR
 daemon $MEMDAEMON -d -p $PORT1 -u $USER -m $CACHESIZE -c $MAXCONN -1 $IP ADDR $OPTIONS
chkconfig --add memcached
chkconfig memcached on
chkconfig —list | grep mem
service memcached restart
ps aux | grep mem
#安装memcache php客户端
```

```
cd /tmp/
tar xvfz /mnt/cdrom/memcache-2.2.4.tgz
cd memcache-2.2.4
/usr/local/php-fcgi/bin/phpize
./configure \
--enable-memcache \
--with-php-config=/usr/local/php-fcgi/bin/php-config \
--with-zlib-dir
make && make install
# Installing shared extensions:
                                   /usr/local/php-fcgi/lib/php/extensions/no-debug-non-zts-20060613/
cd ...
rm -rf memcache-2.2.4*
# vi /usr/local/php-fcgi/etc/php.ini
extension dir = "/usr/local/php-fcgi/lib/php/extensions/no-debug-non-zts-20060613/"
extension=memcache.so
#安装 eAccelerator PHP加速器
cd /tmp/
tar -xvf /mnt/cdrom/eaccelerator-0.9.5.3. tar. tar
cd eaccelerator-0.9.5.3/
/usr/local/php-fcgi/bin/phpize
./configure --enable-eaccelerator=shared
--with-php-config=/usr/local/php-fcgi/bin/php-config
make
make install
        # Installing shared extensions:
                                           /usr/local/php-fcgi/lib/php/extensions/no-debug-non-zts-20060613/
cd ...
rm -rf eaccelerator-0.9.5.3/
mkdir /tmp/eaccelerator && chmod 777 /tmp/eaccelerator && touch /var/log/eaccelerator log
# 编辑php.ini , 将 eAccelerator 作为 PHP Extension 添加
# vi /usr/local/php-fcgi/etc/php.ini
# 加上:
extension="eaccelerator.so"
eaccelerator.shm size="16"
eaccelerator.cache dir="/tmp/eaccelerator"
eaccelerator.enable="1"
eaccelerator.optimizer="1"
eaccelerator.check mtime="1"
eaccelerator. debug="0"
eaccelerator.log file = "/var/log/eaccelerator log"
eaccelerator. filter=""
eaccelerator. shm max="0"
```

```
eaccelerator.shm ttl="0"
eaccelerator.shm_prune_period="0" eaccelerator.shm_only="0"
eaccelerator.compress="1"
eaccelerator.compress level="9"
# 安装SQL Relay
#安装Rudiments:
cd /tmp/
tar vxzf /mnt/cdrom/rudiments-0.31.tar.gz
cd rudiments-0.31
./configure --prefix=/usr/local/rudiments
make
make install
cd ..
rm -rf rudiments-0.31
# 安装SQL Relay:
cd /tmp/
tar vxzf /mnt/cdrom/sqlrelay-0.39.4.tar.gz
cd sqlrelay-0.39.4
./configure --prefix=/usr/local/sqlrelay --with-rudiments-prefix=/usr/local/rudiments \
--with-mysql-prefix=/usr/local/mysql \
--with-php-prefix=/usr/local/php-fcgi
make
make install
cd ..
rm -rf sqlrelay-0.39.4
# 修改 php. ini 文件
# vi /usr/local/php-fcgi/etc/php.ini
extension dir = "/usr/local/php-fcgi/lib/php/extensions/no-debug-non-zts-20060613/"
extension=sql relay. so
#修改 SQL Relay 的配置文件
cp /usr/local/sqlrelay/etc/sqlrelay.conf.example /usr/local/sqlrelay/etc/sqlrelay.conf
# 修改IP地址和路由转发参数
# rm -rf /etc/sysconfig/network-scripts/ifcfg-eth2
# vi /etc/sysctl.conf
net. ipv4. ip forward = 0
# sysctl -p
# 修改防火墙设置
vi /etc/sysconfig/system-config-securitylevel
```

```
--enabled
--trust=eth1
--port=22:tcp
--port=80:tcp
--port=443:tcp
more /etc/sysconfig/iptables
more /etc/sysconfig/selinux
# ------ 标记安装步骤: WEB248 U3 ------
# 由 安装步骤标记: WEB248 U1 克隆生成 IMG249
# 修改主机名为 IMG249
# vi /etc/sysconfig/network
HOSTNAME=IMG249
# 修改IP地址和路由转发参数
# vi /etc/sysconfig/network-scripts/ifcfg-eth0
IPADDR=192, 168, 1, 249
# vi /etc/sysconfig/network-scripts/ifcfg-eth1
IPADDR=10, 0, 0, 2
# rm -rf /etc/sysconfig/network-scripts/ifcfg-eth2
# vi /etc/sysctl.conf
net.ipv4.ip forward = 0
# sysctl -p
# 修改防火墙设置
vi /etc/sysconfig/system-config-securitylevel
--enabled
--trust=eth1
--port=22:tcp
--port=80:tcp
--port=443:tcp
more /etc/sysconfig/iptables
# 关闭 SELinux
# more /etc/sysconfig/selinux
SELINUX=disabled
# ------ 标记安装步骤: IMG249 U1 ------
```

```
# 安装pcre库 (支持 lighttpd 或 nginx 的 rewrite 模块)
cd /tmp
tar zxvf /mnt/cdrom/pcre-7.7. tar. gz
cd pcre-7.7
./configure
make && make install
cd ..
rm -rf pcre-7.7*
# 安装 php
cd /tmp
tar -jxvf /mnt/cdrom/php-5.2.8. tar. bz2
cd php-5.2.8
patch -p1 < /mnt/cdrom/php-5.2.8-fpm-0.5.10.diff
#编译安装,设定安装目录为 /usr/local/php-fcgi; 指定各支持包的安装路径为实际安装目录. 如前
#php支持 CGI/FastCGI需要 php-cgi 命令工具,因此编译安装不能加 --disable-cli ; 不能添加为 apache2handler 支持的
--with-apxs2=/usr/local/apache/bin/apxs #
# 生产环境需要加载的编译参数:#########
# --disable-debug \
./configure \
--prefix=/usr/local/php-fcgi \
--with-mysgl=/usr/local/mysgl \
--with-pdo-mysql=/usr/local/mysql/bin/mysql config \
--enable-fastcgi
--enable-force-cgi-redirect \
--with-config-file-path=/usr/local/php-fcgi/etc \
--with-zlib \
--with-zlib-dir \
--with-png-dir=/usr/local/lib \
--with-jpeg-dir=/usr/local/jpeg \
--with-freetype-dir=/usr/local/freetype \
--with-gd=/usr/local/gd \
--with-ttf \
--enable-gd-native-ttf \
--enable-gd-iis-conv \
--with-libxml-dir=/usr/local/libxml2 \
--with-mcrypt=/usr/local/libmcrypt2 \
--with-iconv \
--with-openss1 \
--enable-mbstring \
--enable-pdo \
--without-pdo-salite \
--without-salite \
```

```
--with-curl \
--with-curlwrappers \
--enable-xml \
--with-pear \
--enable-magic-quotes \
--enable-fpm \
--enable-ftp \
--with-bz2 \
--enable-sysvsem \
--enable-exif \
--with-pcre-dir \
--disable-ipv6
make
make install
cp php. ini-dist /usr/local/php-fcgi/etc/php. ini
cp /mnt/cdrom/phpinfo.php /mnt/hgfs/img/
cd ..
rm -rf php-5.2.8*
# 查看 php-fpm 配置
# vi /usr/local/php-fcgi/etc/php-fpm.conf
# 这个表示php的fastcgi进程监听的ip地址以及端口
<value name="listen address">127. 0. 0. 1:9000
#表示php的fastcgi进程以什么用户以及用户组来运行
# 需要手工去掉注释符 〈!-- *** -->
<value name="user">nobody</value>
<value name="group">nobody</value>
# 是否显示php错误信息
<value name="display errors">0</value>
# 最大的子进程数目
<value name="max children">5</value>
#下面运行php-fpm;现在php的fastcgi进程就已经在后台运行,并监听127.0.0.1的9000端口。
/usr/local/php-fcgi/bin/php-cgi --fpm
# 可以用ps和netstat来看看结果:
ps aux | grep php-cgi
netstat -tpnl | grep php-cgi
# php-fpm 管理程序
/usr/local/php-fcgi/sbin/php-fpm
# 该程序有如下参数:
```

stop 强制终止php的fastcgi进程 quit 平滑终止php的fastcgi进程 restart 重启php的fastcgi进程 reload 重新加载php的php.ini logrotate 重新启用log文件 也就是说,在修改了php. ini之后,我们可以使用 /usr/local/php-fcgi/sbin/php-fpm reload 这样,就保持了在php的fastcgi进程持续运行的状态下,又重新加载了php.ini。 #给 php-fpm 命令增加系统环境变量 /usr/local/php-fcgi/sbin/ # vi /etc/profile export PATH="\$PATH:/usr/local/php-fcgi/sbin/" # 重新登录 # su -#将 php-fpm 加入开机启动项 echo "/usr/local/php-fcgi/sbin/php-fpm start" >> /etc/rc.local cat /etc/rc.local # 安装 libevent cd /tmp/ tar vxzf /mnt/cdrom/libevent-1.4.9-stable.tar.gz cd libevent-1.4.9-stable/ ./configure make make install # 建立一个符号连接 ### ln -s /usr/local/lib/libevent-1.4.so. 2 /usr/lib cd .. rm -rf libevent-1.4.9-stable #安装 memcached 服务器端 cd /tmp/ tar vxzf /mnt/cdrom/memcached-1.2.6. tar. gz cd memcached-1.2.6/ ./configure --prefix=/usr/local/memcached \ --with-libevent=/usr make make install cd .. rm -rf memcached-1, 2, 6/

start 启动php的fastcgi进程

```
# memcached 启动命令
/usr/local/memcached/bin/memcached -1 10.0.0.2 -d -p 62880 -u nobody -m 20
#表示用 daemon 的方式启动 memcached, 监听在 10.0.0.1 的 62880 端口上, 运行用户为 nobody, 为其分配 20MB 的内存。
# 查看 memcached 选项
# /usr/local/memcached/bin/memcached -h
       -t <num> number of threads to use, default 4
#添加 memcached 为服务
cp /mnt/cdrom/memcached.init /etc/rc.d/init.d/memcached
chmod 755 /etc/rc.d/init.d/memcached
# vi /etc/rc.d/init.d/memcached
       PORT1=62880
       USER=nobody
       MAXCONN=1024
       CACHESIZE=20
       IP ADDR=10. 0. 0. 2
       OPTIONS="-t 8"
# 添加绑定IP的选项 -1 $IP ADDR
 daemon $MEMDAEMON -d -p $PORT1 -u $USER -m $CACHESIZE -c $MAXCONN -1 $IP ADDR $OPTIONS
chkconfig --add memcached
chkconfig memcached on
chkconfig --list | grep mem
service memcached restart
ps aux | grep mem
# 安装memcache php客户端
cd /tmp/
tar xvfz /mnt/cdrom/memcache-2.2.4.tgz
cd memcache-2.2.4
/usr/local/php-fcgi/bin/phpize
./configure \
--enable-memcache \
--with-php-config=/usr/local/php-fcgi/bin/php-config \
--with-zlib-dir
make && make install
                                         /usr/local/php-fcgi/lib/php/extensions/no-debug-non-zts-20060613/
       # Installing shared extensions:
cd ..
rm -rf memcache-2.2.4*
# vi /usr/local/php-fcgi/etc/php.ini
```

```
extension dir = "/usr/local/php-fcgi/lib/php/extensions/no-debug-non-zts-20060613/"
extension=memcache.so
#安装 eAccelerator PHP 加速器
cd /tmp/
tar -xvf /mnt/cdrom/eaccelerator-0.9.5.3. tar. tar
cd eaccelerator-0.9.5.3/
/usr/local/php-fcgi/bin/phpize
./configure --enable-eaccelerator=shared
--with-php-config=/usr/local/php-fcgi/bin/php-config
make
make install
       # Installing shared extensions:
                                          /usr/local/php-fcgi/lib/php/extensions/no-debug-non-zts-20060613/
cd ..
rm -rf eaccelerator-0.9.5.3/
mkdir /tmp/eaccelerator && chmod 777 /tmp/eaccelerator && touch /var/log/eaccelerator log
# 编辑php.ini , 将 eAccelerator 作为 PHP Extension 添加
# vi /usr/local/php-fcgi/etc/php.ini
# 加上:
extension="eaccelerator.so"
eaccelerator.shm size="16"
eaccelerator.cache dir="/tmp/eaccelerator"
eaccelerator. enable="1"
eaccelerator.optimizer="1"
eaccelerator.check mtime="1"
eaccelerator. debug="0"
eaccelerator.log file = "/var/log/eaccelerator log "
eaccelerator. filter=""
eaccelerator.shm max="0"
eaccelerator.shm ttl="0"
eaccelerator.shm prune period="0"
eaccelerator. shm only="0"
eaccelerator.compress="1"
eaccelerator.compress level="9"
   ----- 标记安装步骤: IMG249 U3 ------
# 在 安装步骤标记: IMG249 U3 基础上,
# 32 位系统安装 gamin-devel-0.1.7-8.el5.i386.rpm
# 64 位系统安装 gamin-devel-0.1.7-8.el5.x86 64.rpm
rpm -ivh /mnt/cdrom/gamin-devel-0.1.7-8.el5.i386.rpm
```

```
# 安装 lighttpd
tar jxvf /mnt/cdrom/lighttpd-1.4.20. tar. bz2
cd lighttpd-1.4.20/
./configure \
--prefix=/usr/local/lighttpd \
--with-webday-props \
--with-webdav-locks \
--with-pcre \
--with-gdbm \
--with-memcache \
--with-linux-aio \
--with-bzip2 \
--enable-lfs \
--with-fam \
--disable-ipv6
make
make install
groupadd lighttpd
useradd -g lighttpd -s /sbin/nologin -d /dev/null lighttpd
mkdir /etc/lighttpd/
mkdir /var/log/lighttpd
chown -R lighttpd.lighttpd/var/log/lighttpd/
chmod 750 /var/log/lighttpd/
cp ./doc/lighttpd.conf /etc/lighttpd/
cp ./doc/rc.lighttpd.redhat /etc/init.d/lighttpd
cp./doc/sysconfig.lighttpd/etc/sysconfig/lighttpd
chmod 755 /etc/init.d/lighttpd
cd ..
rm -rf lighttpd-1.4.20/
chkconfig --add lighttpd
chkconfig lighttpd on
# 修正 lighttpd 程序所在的目录
vi /etc/init.d/lighttpd
lighttpd="/usr/local/lighttpd/sbin/lighttpd"
# 编辑 lighttpd.conf , 打开如下的模块
# vi /etc/lighttpd/lighttpd.conf
server.modules
                               "mod_rewrite",
                               "mod_access", \\ 默认为打开
                               "mod fastcgi",
```

```
"mod compress",
                            "mod accesslog") \\ 默认为打开
# 修改 lighttpd 相关目录
                         = "/mnt/hgfs/img/"
server.document-root
#访问日志,以及日志格式 (combined),使用X-Forwarded-For可越过代理读取真实ip
accesslog. format = "%{X-Forwarded-For}i %v %u %t \"%r\" %s %b \"%{User-Agent}i\" \"%{Referer}i\""
# 设置禁止访问的文件扩展名
url. access-deny = ("^{\sim}", ".inc", ".tpl")
# 服务监听端口
server.port = 80
# virtual directory listings 如果没有找到index文件就列出目录。建议disable。
dir-listing.activate = "disable"
# 服务运行使用的用户及用户组
server.username = "lighttpd"
server.groupname = "lighttpd"
# 设定文件过期时间
expire.url = (
"/css/" => "access 2 hours",
''/js/'' \Rightarrow ''access 2 hours''.
# gzip压缩存放的目录以及需要压缩的文件类型
       # 可以指定某些静态资源类型使用压缩方式传输,节省带宽,
       # 对于大量AJAX应用来说,可以极大提高页面加载速度。
compress.cache-dir = "/tmp/lighttpd/cache/compress/"
compress.filetype = ("text/plain", "text/html", "text/javascript", "text/css")
#配置 fastcgi
server.modules += ("mod fastcgi")
fastcgi.server = (".php" =)
  ("localhost" \Rightarrow "
      "host"
             => "127. 0. 0. 1",
             => 1026,
       "port"
      #"socket" => "/tmp/php-fastcgi.socket".
      "bin-path" => "/usr/local/php-fcgi/bin/php-cgi",
      "idle-timeout" => 20.
      "max-procs" \Rightarrow 4,
      "bin-environment" => (
      "PHP FCGI CHILDREN" => "8"
      "PHP FCGI MAX REQUESTS" => "500"
```

```
# 使 php-cgi 能正常使用 SCRIPT FILENAME 这个变量
# vi /usr/local/php-fcgi/etc/php.ini
cgi.fix pathinfo=1
# 安装日志回滚
cd /tmp/
tar xvf /mnt/cdrom/cronolog-1.6.2. tar. tar
cd cronolog-1.6.2
./configure
make && make install
cd ..
rm -rf cronolog-1.6.2
# LogFormat "%h %l %u %t \"%r\" %>s %b" common
# vi /etc/lighttpd/lighttpd.conf
accesslog.format = "%{X-Forwarded-For}i %v %h %l %u %t \"%r\" %>s %b"
accesslog. filename = "|/usr/local/sbin/cronolog /var/log/lighttpd/access.log. %Y-%m-%d-%H"
# 优化 php-fpm
# vi /usr/local/php-fcgi/etc/php-fpm.conf
<value name="max children">128</value>
<value name="MaxSpareServers">250</value>
<value name="rlimit files">51200</value>
<value name="max requests">51200</value>
# 优化 lighttpd
# 说明: server.network-backend = "linux-sendfile" # lighttpd1.4 适用 sendfile 已经非常好了
       server.network-backend = "linux-aio-sendfile" # lighttpd1.5 适用 但不是纯粹的AIO 大部分的还是sendfile
server.max-keep-alive-requests = 0
server.max-keep-alive-idle = 30
server.max-read-idle = 60
server.max-write-idle = 360
server. max-fds = 40240
server.event-handler = \"linux-sysepoll\"
server.stat-cache-engine = \"fam\"
server.network-backend = \"linux-sendfile\"
" >> /etc/lighttpd/lighttpd.conf
```

```
echo -ne "
* soft nofile 65536
* hard nofile 65536
" >>/etc/security/limits.conf
cat /proc/sys/fs/file-max
cat /proc/sys/fs/file-nr
# tcpip调优
echo -ne
net.ipv4.ip local port range = 1024 65536
net.core.rmem \max = 16777216
net.core.wmem \max = 16777216
net.ipv4.tcp rmem = 4096 87380 16777216
net. ipv4. tcp wmem = 4096 65536 16777216
net.ipv4.tcp fin timeout = 3
net.ipv4.tcp tw recycle = 1
net. core. netdev max backlog = 30000
net.ipv4.tcp no metrics save = 1
net. core. somaxconn = 262144
net. ipv4. tcp syncookies = 0
net.ipv4.tcp max orphans = 262144
net. ipv4. tcp max syn backlog = 262144
net.ipv4.tcp synack retries = 2
net.ipv4.tcp syn retries = 2
fs. file-max = 65\overline{5}36
" >> /etc/sysct1.conf
# vi /etc/sysctl.conf
## net.ipv4.tcp syncookies = 1
# sysctl -p /etc/sysctl.conf
    ----- 标记安装步骤: IMG249 U4 ----
# 在 安装步骤标记: WEB248 U3 的基础上,继续配置 mysql master/slave
# 建立数据库复制帐号 fkoocopy 和mon的监控用户 fkoo monitor
# 复制和监控都是通过内网网卡的IP地址
# mysql -p
use mysal
grant replication slave on *. * to 'fkoocopy'@'10.0.0.2' identified by 'fkoopasswd':
grant select on *. * to 'fkoo monitor'@'10.0.0.2' identified by 'FkooMonitor':
```

```
# delete from user where user='fkoocopy';
# delete from user where user='fkoo monitor';
# 为安全考虑,删除默认生成的不用的帐号和权限
delete from user where user='';
delete from user where user='root' and host='%';
delete from user where user='root' and host='127.0.0.1';
delete from user where user='root' and host='WEB248';
use mysql
flush privileges;
select * from user;
quit;
cp /etc/my.cnf /etc/my.cnf.bak
vi /etc/my.cnf
bind-address
               = 10, 0, 0, 1
# log-bin=mysql-bin
# server-id
server-id
log-bin=WEB248-bin
binlog-do-db=fkoodb
binlog-ignore-db = mysql
binlog-ignore-db = test
auto-increment-increment = 2
auto-increment-offset = 2
replicate-same-server-id = 0
master-host=10.0.0.2
master-user=fkoocopy
master-password=fkoopasswd
master-port=3306
master-connect-retry=60
report-host=WEB248
replicate-do-db=fkoodb
log-slave-updates
expire_logs days = 10
max binlog \overline{\text{size}} = 500\text{M}
service mysql restart
mysql -p
#修正同步参数的步骤
```

```
# 根据 master status 修正 MASTER LOG FILE 和 MASTER LOG POS; (以下数值仅供参考)
mysql -p
FLUSH TABLES WITH READ LOCK;
STOP SLAVE:
show master status;
unlock tables:
CHANGE MASTER TO
 MASTER HOST=' 10. 0. 0. 2',
 MASTER USER=' fkoocopy',
 MASTER PASSWORD='fkoopasswd',
 MASTER PORT=3306,
 MASTER LOG FILE='IMG249-bin.000001',
 MASTER LOG POS=106,
 MASTER CONNECT RETRY=60;
SLAVE START;
show slave status\G;
# 重置同步日志; mysql 会删除 *-bin. 00000*; 从 *-bin. 000001重新开始记录;
STOP SLAVE;
RESET MASTER;
RESET SLAVE;
SLAVE START;
show master status;
show slave status\G;
    ------ 标记安装步骤: WEB248 U4 ------ 标记安装步骤: WEB248 U4
# 在 安装步骤标记: IMG249 U4 的基础上,继续配置 mysql master/slave
# 建立数据库复制帐号 fkoocopy 和mon的监控用户 fkoo monitor
# 复制和监控都是通过内网网卡的IP地址
# mysql -p
use mysql
grant replication slave on *. * to 'fkoocopy'@'10.0.0.1' identified by 'fkoopasswd';
grant select on *. * to 'fkoo monitor'@'10.0.0.1' identified by 'FkooMonitor':
# delete from user where user='fkoocopy';
# delete from user where user='fkoo_monitor';
# 为安全考虑,删除默认生成的不用的帐号和权限
delete from user where user='':
delete from user where user='root' and host='%':
delete from user where user='root' and host='127.0.0.1':
delete from user where user='root' and host='WEB248':
```

```
use mysql
flush privileges;
select * from user;
quit:
cp /etc/my.cnf /etc/my.cnf.bak
vi /etc/my.cnf
bind-address
                  = 10.0.0.2
log-bin=IMG249-bin
server-id
             = 1
binlog-do-db=fkoodb
binlog-ignore-db = mysql
binlog-ignore-db = test
auto-increment-increment = 2
auto-increment-offset = 1
replicate-same-server-id = 0
master-host=10.0.0.1
master-user=fkoocopy
master-password=fkoopasswd
master-port=3306
master-connect-retry=60
report-host=IMG249
replicate-do-db=fkoodb
log-slave-updates
expire logs days = 10
\max \text{ binlog size} = 500M
service mysql restart
#修正同步参数的步骤
#根据 同步关系对方的 master status 修正 MASTER LOG FILE 和 MASTER LOG POS; (以下数值仅供参考)
mvsal -p
FLUSH TABLES WITH READ LOCK:
STOP SLAVE:
show master status:
unlock tables;
CHANGE MASTER TO
 MASTER_HOST=' 10. 0. 0. 1',
 MASTER USER=' fkoocopy',
 MASTER PASSWORD=' fkoopasswd',
 MASTER PORT=3306,
```

```
MASTER LOG FILE='WEB248-bin.000002',
 MASTER LOG POS=106,
 MASTER CONNECT RETRY=60;
SLAVE START:
show slave status\G:
# 重置同步日志; mysql 会删除 *-bin. 00000*; 从 *-bin. 000001重新开始记录;
# 测试: 此时不能 FLUSH TABLES WITH READ LOCK: 锁定表, 否则 Master Log File 不更新
STOP SLAVE:
RESET MASTER;
RESET SLAVE;
SLAVE START:
show master status;
show slave status\G;
# ------ 标记安装步骤: IMG249 U5 ------
# 在 安装步骤标记: WEB248 U4 的基础上(已建立好Replication),
# 已建立好的Replication, show slave status\G; 时,在master和slave上应该显示:
mysql> show slave status\G:
           Slave IO Running: Yes
           Slave SQL Running: Yes
#接着新建将被监控的库和表,再安装mon, heartbeat
# 说明: 表单必须建立, 否则后面配置的 mon 监测不到数据库表单而触发误动作
# mysql -p
show databases:
create database fkoodb;
use fkoodb
CREATE TABLE mytable (name VARCHAR(20), sex CHAR(1), \
birth DATE, birthaddr VARCHAR(20):
show tables:
DESCRIBE mytable;
select * from mytable:
  # 安装Mon
rpm -ivh /mnt/cdrom/perl-Time-Period-1.20-2.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Net-SNPP-1.17-1.2.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Math-TrulyRandom-1.0-1.2.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/perl-Convert-BER-1.3101-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Mon-0.11-2.2.el5.rf.noarch.rpm
```

```
rpm -ivh /mnt/cdrom/perl-AOL-TOC-0.340-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Authen-PAM-0.16-1.2.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/perl-UNIVERSAL-can-1.12-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-UNIVERSAL-isa-0.06-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Test-MockObject-1.08-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Test-Mock-LWP-0.05-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-HTML-Tagset-3.20-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-HTML-Parser-3.56-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/libghttp-1.0.9-10.99 2.0.el5.i386.rpm
rpm -ivh /mnt/cdrom/libghttp-devel-1.0.9-10.99 2.0.el5.i386.rpm
rpm -ivh /mnt/cdrom/perl-HTTP-GHTTP-1.07-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/perl-libwww-perl-5.803-2 6.0.el5.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Net-Daemon-0.43-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-P1RPC-0.2020-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-DBI-1.602-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/mysqlclient15-5.0.45-1.el5.remi.i386.rpm
rpm -ivh /mnt/cdrom/perl-DBD-mysgl-4.006-1.el5.rf.i386.rpm
rpm -i /mnt/cdrom/perl-Time-HiRes-1.9712-1.rf.src.rpm
cd /usr/src/redhat/SPECS
rpmbuild -bp perl-Time-HiRes.spec
cd /usr/src/redhat/BUILD/Time-HiRes-1.9712/
perl Makefile.PL
make
make install
cd ../..
rm -rf BUILD/Time-HiRes-1.9712*
rm -rf SOURCES/Time-HiRes-1.9712.tar.gz
rm -rf SPECS/perl-Time-HiRes. spec
rpm -ivh /mnt/cdrom/mon-1.2.0-1.el5.rf.i386.rpm
cp /etc/mon/mon.cf /etc/mon/mon.cf.bak
# hostgroup 与 watch 之间必须空一行
# hostgroup MasterDB 的 IP. 是 mysql replication 同步复制关系的对方 IMG249 的私网 IP:
# vi /etc/mon/mon.cf
### group definitions (hostnames or IP addresses)
hostgroup MasterDB 10.0.0.2
watch MasterDB
    service mysal
        interval 5s
       monitor msql-mysql.monitor --mode mysql --username=fkoo monitor \
```

#编辑 mon 监测到 mysql 服务失败后的触发脚本

保证 mysql 服务为 start; 接管 heartbeat 的 漂移IP 和 主服务 chmod 755 /usr/lib/mon/alert.d/test.alert echo "service mysql start" >> /usr/lib/mon/alert.d/test.alert echo "/usr/lib/heartbeat/hb_takeover" >> /usr/lib/mon/alert.d/test.alert tail /usr/lib/mon/alert.d/test.alert

复制 msql-mysql.monitor 监控脚本给 mon 服务; 修改权限为可执行 cp /mnt/cdrom/msql-mysql.monitor /usr/lib/mon/mon.d/ chmod 755 /usr/lib/mon/mon.d/msql-mysql.monitor

重启/启动 mon 服务;添加 mon 为自启动服务;查看 mon 的监测状态 service mon restart chkconfig mon on chkconfig —list |grep mon monshow —full

GROUP STATUS ALERTS SUMMARY SERVICE LAST NEXT R MasterDB 3s mysq1 1snone ALERTS SUMMARY GROUP SERVICE STATUS LAST NEXT R MasterDB FAIL 10.0.0.2 mvsa1 0s0s

确定 mysql 服务为自启动服务 chkconfig mysql on service mysql start

安装 heartbeat 服务

useradd -g haclient hacluster

rpm -ivh /mnt/cdrom/perl-TimeDate-1.16-5.el5.noarch.rpm

rpm -ivh /mnt/cdrom/heartbeat-pils-2.1.4-2.1.i386.rpm

rpm -ivh /mnt/cdrom/heartbeat-stonith-2.1.4-2.1.i386.rpm

rpm -ivh /mnt/cdrom/heartbeat-2.1.4-2.1.i386.rpm

rpm -ivh /mnt/cdrom/libnet-1.1.2.1-2.1.i386.rpm

```
cp /usr/share/doc/packages/heartbeat/ha.cf /etc/ha.d/
cp /usr/share/doc/packages/heartbeat/authkeys /etc/ha.d/
cp /usr/share/doc/packages/heartbeat/haresources /etc/ha.d/
chkconfig --add heartbeat
chkconfig heartbeat on
chkconfig ——list | grep heartbeat
# 设置 heartbeat 密钥格式
echo "auth 1" >> /etc/ha. d/authkeys
echo "1 crc" >> /etc/ha. d/authkeys
tail /etc/ha. d/authkeys
chmod 600 /etc/ha. d/authkeys
# 配置 heartbeat 服务参数 (仅列出需要修改的地方)
# vi /etc/ha.d/ha.cf
debugfile /var/log/ha-debug
logfile
              /var/log/ha-log
keepalive 2
deadtime 30
warntime 10
initdead 120
udpport
               694
bcast eth1
auto failback off
node
        IMG249
       WEB248
node
# 配置 heartbeat 服务启动/关闭 的资源
# 设置 WEB248 为漂移地址 10.0.0.6 所在的默认的 master echo "WEB248 10.0.0.6" >> /etc/ha.d/haresources
tail /etc/ha.d/haresources
# 扩大 eth1 的掩码, 以便可以设置漂移地址
# vi /etc/sysconfig/network-scripts/ifcfg-eth1
BROADCAST=10. 0. 0. 7
IPADDR=10. 0. 0. 1
NETMASK=255, 255, 255, 248
NETWORK=10. 0. 0. 0
# 重启网络
service network restart
```

启动 heartbeat 服务

```
cd ...
rm -rf rudiments-0.31
# 安装SQL Relay:
cd /tmp/
tar vxzf /mnt/cdrom/sqlrelay-0.39.4.tar.gz
cd sqlrelay-0.39.4
./configure --prefix=/usr/local/sqlrelay --with-rudiments-prefix=/usr/local/rudiments \
--with-mysql-prefix=/usr/local/mysql \
--with-php-prefix=/usr/local/php-fcgi
make
make install
cd ..
rm -rf sqlrelay-0.39.4
# 修改 php. ini 文件
# vi /usr/local/php-fcgi/etc/php.ini
extension dir = "/usr/local/php-fcgi/lib/php/extensions/no-debug-non-zts-20060613/"
extension=sql relay.so
#修改 SQL Relay 的配置文件
cp /usr/local/sqlrelay/etc/sqlrelay.conf.example /usr/local/sqlrelay/etc/sqlrelay.conf
#配置 NFS 服务器端,并将 lighttpd 主目录 export 出来
#设置 NFS 服务为自启动
chkconfig portmap on
chkconfig nfs on
service portmap start
service nfs start
# 新建 /nfs 目录, 更改 lighttpd 主目录为 /nfs
mkdir /nfs
chmod 777 /nfs
 ls -al /nfs/
# vi /etc/lighttpd/lighttpd.conf
server.document-root
                          = "/nfs"
# 设置 NFS 服务器端将 lighttpd 主目录 /nfs 导出
# 设定为 rw (可读写):
# sync (将数据同步写入内存缓冲区与磁盘中,效率低,但可以保证数据的一致性);
# no_wdelay (若有写操作则立即执行,应与sync配合使用)
echo -ne
/nfs 10.0.0.0/30 (rw, sync, no wdelay)
" >> /etc/exports
cat /etc/exports
```

```
# 重新导出 或 重载 NFS 服务
exportfs -rv
service nfs reload
# 查看导出列表
# showmount -e
       Export list for IMG249:
       /nfs 10.0.0.0/30
# 此项还未配置, 未测试
# 修改/etc/hosts.allow和/etc/hosts.deny达到限制CLIENT的目的
echo -ne
portmap: 10.0.0.1/255.255.255.255 : allow
" >> /etc/hosts.allow
cat /etc/hosts.allow
echo -ne "
portmap: ALL: deny
" >> /etc/hosts.deny
cat /etc/hosts.deny
   ------ 标记安装步骤: IMG249 U7 ------
# 在 安装步骤标记: WEB248 U5 的基础上
# NFS 客户端,新建 mount点,加载 NFS 服务端的目录;
mkdir /img
mount -t nfs -o timeo=3, vers=3, udp, hard, bg, rsize=16384, wsize=16384 10.0.0.2:/nfs /img
# 查看 nfs 信息
mount | grep nfs
nfsstat -v
# 卸载 nfs 目录
umount /img
# 在系统启动脚本 rc. local 中加入自动 mout 命令;前面加上等待 10 秒,让系统网卡先连接上
echo -ne
sleep 10
mount -t nfs -o timeo=3, vers=3, udp, hard, bg, rsize=16384, wsize=16384 10.0.0.2:/nfs /img
" >> /etc/rc. d/rc. local
```

```
cat /etc/rc.d/rc.local
  # ----- 在 VMware 快照 IMG249 U7 的基础上, 安装 MogileFS 数据库
# 创建 MogileFS 数据库
      #一些扩展库不支持 mysql 的 new passwords; 因此这里用 "OLD PASSWORD"
      # 在更改密码前,请确定比本例中的写法更好
mysql -p
# 进入 mysql>
CREATE DATABASE mogilefs fk;
GRANT ALL ON mogilefs fk.* TO 'mogile fk'@'%';
SET PASSWORD FOR 'mogile fk'@'%' = OLD PASSWORD('mogile pw');
FLUSH PRIVILEGES:
use mysql;
select * from user;
show databases;
quit
# 配置 mysql, 同步 mogilefs fk 数据库
# vi /etc/my.cnf
binlog-do-db = mogilefs fk
replicate-do-db = mogilefs fk
# 重启 mysql 服务
service mysql restart
# 检查同步状态
mysql -p
# 进入 mysql>
show master status;
show slave status\G;
# ----- 在 VMware 快照 WEB248 U6 的基础上,安装 MogileFS 数据库
# 创建 MogileFS 数据库
      #一些扩展库不支持 mysql 的 new passwords; 因此这里用 "OLD PASSWORD"
      # 在更改密码前, 请确定比本例中的写法更好
mysql -p
# 进入 mysql>
CREATE DATABASE mogilefs fk;
GRANT ALL ON mogilefs fk. * TO 'mogile fk'@'%';
```

```
SET PASSWORD FOR 'mogile fk'@'%' = OLD PASSWORD('mogile pw');
FLUSH PRIVILEGES;
use mysql;
select * from user;
show databases:
quit
# 配置 mysql, 同步 mogilefs fk 数据库
# vi /etc/mv.cnf
binlog-do-db = mogilefs fk
replicate-do-db = mogilefs fk
# 重启 mysql 服务
service mysql restart
# 检查同步状态
mysql -p
# 进入 mysql>
show master status;
show slave status\G:
# ---- 继续在 IMG249 上, 安装 MogileFS
# 挂载上软件代码光盘包 "PhaseII. fkoo"
mount /dev/cdrom /mnt/cdrom
#安装 mogilefs 服务器
rpm -ivh /mnt/cdrom/perl-IO-stringy-2.110-1.2.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-HTML-Tagset-3.20-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-HTML-Parser-3.56-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/libghttp-1.0.9-10.99 2.0.el5.i386.rpm
rpm -ivh /mnt/cdrom/perl-HTTP-GHTTP-1.07-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/perl-libwww-perl-5.803-2 6.0.el5.noarch.rpm
rpm -ivh /mnt/cdrom/perl-MogileFS-Client-1.08-1.fc8.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Compress-Raw-Zlib-2.008-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/perl-IO-Compress-Base-2.008-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-IO-Compress-Zlib-2.008-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Compress-Zlib-2.008-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-MogileFS-Utils-2.12-1.el5.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Net-Netmask-1.9015-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Net-Daemon-0.43-1.el5.rf.noarch.rpm
```

```
rpm -ivh /mnt/cdrom/perl-P1RPC-0.2020-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-DBI-1.602-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/mysqlclient15-5.0.45-1.el5.remi.i386.rpm
rpm -ivh /mnt/cdrom/perl-DBD-mysql-4.006-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/perl-Gearman-1.09-1.el5.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Sys-Syscall-0.22-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Danga-Socket-1.58-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Gearman-Client-Async-0.94-3.el5.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Gearman-Server-1.09-1.el5.noarch.rpm
rpm -ivh /mnt/cdrom/perl-BSD-Resource-1.2901-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/perl-IO-AIO-2.51-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/Perlbal-1.59-1.el5.noarch.rpm
rpm -i /mnt/cdrom/perl-mogilefs-server-2.20-4.el5.src.rpm
cd /usr/src/redhat/SPECS
rpmbuild -bp perl-mogilefs-server.spec
cd /usr/src/redhat/BUILD/mogilefs-server-2.20/
perl Makefile. PL
make
make install
cd ../..
rm -rf BUILD/mogilefs-server-2.20
rm -rf SPECS/perl-mogilefs-server.spec
rm -rf SOURCES/mog*
# 向数据库安装 mogilefs fk 数据库表单
# dbhost=10.0.0.6, 是 mysql M-H-S 结构中的 漂移地址
mogdbsetup --dbhost=10.0.0.6 --dbname=mogilefs fk --dbuser=mogile fk --dbpass=mogile pw
# 检查 mogilefs fk 数据库同步
use mogilefs fk;
show tables:
     ------ 标记安装步骤: IMG249 U8 ------
# 新建存储目录, 生产环境应该是单独的分区
# 新建配置文件目录
mkdir /var/mogdata
mkdir /etc/mogilefs
# 生成存储节点配置文件
# server = lighttpd, 表示 mogstored 启用 lighttpd 作为 webday
```

```
# httplisten = 10.0.0.2:7500, lighttpd 绑定监听内网的 7500 端口
echo -ne "server = lighttpd
serverbin = /usr/local/lighttpd/sbin/lighttpd
daemonize = 1
maxconns = 10000
httplisten = 10.0.0.2:7500
mgmtlisten = 10.0.0.2:7501
docroot = /var/mogdata
" >> /etc/mogilefs/mogstored.conf
cat /etc/mogilefs/mogstored.conf
# 复制并设定 mogstored 存储启动文件
cp /mnt/cdrom/mogstored.init /etc/init.d/mogstored
chmod 755 /etc/rc.d/init.d/mogstored
chkconfig --add mogstored
chkconfig mogstored on
service mogstored restart
ps -ef | grep mogstored
# 查看 mogstored 调用 lighttpd 生成的临时配置文件
# cat /tmp/T20YdapiTJ
server.document-root = "/var/mogdata"
server.port = 7500
server. bind = "192.168.1.249"
server.modules = ( "mod_webdav", "mod_status" )
webdav.activate = "enable"
status.status-url = "/"
# find / -name Lighttpd.pm
/usr/lib/perl5/site perl/5.8.8/Mogstored/HTTPServer/Lighttpd.pm
# 生成 Tracker 配置文件
# listen = 10.0.0.2, 跟踪器使用 IMG249 的内网 IP
# db_dsn = 10.0.0.6, 是 MogileFS 数据库的 IP
# default mindevcoun 是默认备份在多少个 device 上备份;即备份多少份
echo -ne "daemonize = 1
db dsn = DBI:mysql:mogilefs fk:10.0.0.6
db user = mogile fk
db pass = mogile pw
listen = 0.0.0.0:6001
conf port = 6001
query jobs = 2
listener jobs = 10
```

delete jobs = 1replicate jobs = 5 reaper jobs = 1default mindevcount = 2 " >> /etc/mogilefs/mogilefsd.conf cat /etc/mogilefs/mogilefsd.conf # 复制并设定 mogilefsd Tracker服务启动文件 cp /mnt/cdrom/mogilefsd.init /etc/init.d/mogilefsd #显示启动 mogilefsd 服务的用户名 # cat /etc/init.d/mogilefsd | grep dbUser #取消执行 sudo 命令时需要终端的限制 vi /etc/sudoers # Defaults requiretty # 为运行 mogilefsd 添加运行用户 mogile fk # 此用户与 dbUser / mogilefsd.conf 和 dbUser / mogilefsd 的相同 adduser mogile fk # mogilefsd 与 syslog 有依存关系, 启动syslog服务 chkconfig syslog on service syslog start # 设置 mogilefsd Tracker服务开启状态 chmod 755 /etc/rc.d/init.d/mogilefsd chkconfig --add mogilefsd chkconfig mogilefsd on service mogilefsd restart ps -ef | grep mogilefsd # 生成 mogadm 配置文件 echo -ne "trackers = 10.0.0.2:6001 " >> /etc/mogilefs/mogilefs.conf cat /etc/mogilefs/mogilefs.conf # 生成 mogtool 配置文件 echo -ne "trackers = 10.0.0.2:6001 domain = IMG Domain class = $IMG \overline{C}lass01$ $1ib = /usr/\overline{1}ib/per15/vendor per1/5.8.8/$ gzip = 1big = 1

```
overwrite = 1
chunksize = 32M
receipt = admin@fkoo.com
verify = 1
concurrent = 3
" >> /etc/mogilefs/mogtool.conf
cat /etc/mogilefs/mogtool.conf
# 用 mogadm 添加存储节点 Mog IMG249
mogadm host add Mog IMG249 --ip=10.0.0.2 --port=7500 --status=alive
# 列出存储节点
mogadm host list
# 向存储节点 Mog IMG249 中添加编号为 1 的设备
mogadm device add Mog IMG249 1
mogadm device add Mog IMG249 2
mogadm device add Mog IMG249 3
# 列出存储设备
mogadm device list
# 为存储设备 1 添加工作目录
mkdir -p /var/mogdata/dev1
mkdir -p /var/mogdata/dev2
mkdir -p /var/mogdata/dev3
# 监测存储系统
mogadm check
#添加存储域 IMG Domain
# 向存储域 IMG Domain 中添加存储类别 IMG Class01
mogadm domain add IMG Domain
mogadm class add IMG Domain IMG Class01
vi test.pl
# 生成 MogileFS 存储系统测试文件
#======test.pl=================
use MogileFS::Client:
my $mogfs = MogileFS::Client->new(domain=>'IMG Domain', hosts=>['10.0.0.2:6001'], root=>'/var/mogdata',);
my $fh = $mogfs->new file("file key", "IMG Class01"):
die $fh unless $fh->print($mogfs->readonly);
my $content = "file.txt";
@num = $mogfs->store content("file key", "IMG Class01", $content);
print "@num \n";
my $file contents = $mogfs->get file data("file key");
print "$\overline{\text{file contents \n"}:
#$mogfs->delete("file kev"):
$fh->print($file contents);
```

```
@urls = $mogfs->get paths("file key");
print "@urls \n":
#=====E0F=======
# 执行测试
# perl test.pl
SCALAR (0x8e68b74)
http://10.0.0.2:7500/dev1/0/000/000/000000014.fid
vi dbtest.pl
# 生成 MogileFS 数据库连接测试文件
#======dbtest.pl========
#!/usr/bin/perl
# DBI is perl module used to connect to the database
use DBI:
# hostname or ip of server (for local testing, localhost should work)
$config{'dbServer'} = "10.0.0.6";
$config{'dbUser'} = "mogile_fk";
$config{'dbPass'} = "mogile_pw";
$config{'dbName'} = "mogilefs fk";
$config{'dataSource'} = "DBI:mysql:$config{'dbName'}:$config{'dbServer'}";
# Connect to MySQL
my $dbh = DBI->connect($config{'dataSource'}, $config{'dbUser'}, $config{'dbPass'}) or
die "Can't connect to $config{'dataSource'} \br>$DBI::errstr";
print "Connected successfullv (br)":
$dbh->disconnect():
#======F0F=========================
# 执行测试
# perl dbtest.pl
Connected successfully (br)
# ------ 标记安装步骤: IMG249 U9 -------
# 安装mogilefs客户端模块
mount /dev/cdrom /mnt/cdrom
cd /tmp/
tar xvf /mnt/cdrom/neon-0.28.3.tar.tar
cd_neon=0, 28, 3/
./configure
```

```
make
make install
cd ..
rm -rf neon-0.28.3
cd /tmp/
tar jxvf /mnt/cdrom/mogilefs-0.7.5b3.tar.tar
cd mogilefs-0.7.5b3/
/usr/local/php-fcgi/bin/phpize
make clean
./configure --with-php-config=/usr/local/php-fcgi/bin/php-config
make
make install
cd ..
rm -rf mogilefs-0.7.5b3
# Installing shared extensions:
                                 /usr/local/php-fcgi/lib/php/extensions/no-debug-non-zts-20060613/
# 修改 php.ini 配置文件,添加 mogilefs.so 扩展库
# 确认 extension_dir = "/usr/local/php-fcgi/lib/php/extensions/no-debug-non-zts-20060613/"
# vi /usr/local/php-fcgi/etc/php.ini
extension=mogilefs.so
# 测试 mogilefs. so 扩展库是否安装成功
/usr/local/php-fcgi/bin/php -r "var dump(extension loaded('mogilefs')):"
# 如果成功,应该显示为:
bool(true)
# ----- 标记安装步骤: IMG249 U10 ------
#给 sqlrelay 命令增加系统环境变量 /usr/local/sqlrelay/bin
# vi /etc/profile
export PATH="$PATH:/usr/local/sqlrelay/bin"
# 重新登录
# su -
#添加开机自启 sqlr-start 实例
# vi /etc/rc.local
/usr/local/sqlrelay/bin/sqlr-start -id usersdata
/usr/local/sqlrelay/bin/sqlr-start -id logsdata
   ------ 标记安装步骤: IMG249 U11 -------
# 在 WEB248 上安装 Mogilefs
```

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```
mount /dev/cdrom /mnt/cdrom
#安装 mogilefs 服务器
rpm -ivh /mnt/cdrom/perl-IO-stringy-2.110-1.2.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-HTML-Tagset-3.20-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-HTML-Parser-3.56-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/libghttp-1.0.9-10.99 2.0.el5.i386.rpm
rpm -ivh /mnt/cdrom/perl-HTTP-GHTTP-1.07-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/perl-libwww-perl-5.803-2 6.0.el5.noarch.rpm
rpm -ivh /mnt/cdrom/perl-MogileFS-Client-1.08-1.fc8.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Compress-Raw-Zlib-2.008-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/perl-IO-Compress-Base-2.008-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-IO-Compress-Zlib-2.008-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Compress-Z1ib-2.008-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-MogileFS-Utils-2.12-1.el5.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Net-Netmask-1.9015-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Net-Daemon-0.43-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-P1RPC-0.2020-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-DBI-1.602-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/mysqlclient15-5.0.45-1.el5.remi.i386.rpm
rpm -ivh /mnt/cdrom/perl-DBD-mysgl-4.006-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/perl-Gearman-1.09-1.el5.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Sys-Syscall-0.22-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Danga-Socket-1.58-1.el5.rf.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Gearman-Client-Async-0.94-3.el5.noarch.rpm
rpm -ivh /mnt/cdrom/perl-Gearman-Server-1.09-1.el5.noarch.rpm
rpm -ivh /mnt/cdrom/perl-BSD-Resource-1.2901-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/perl-IO-AIO-2.51-1.el5.rf.i386.rpm
rpm -ivh /mnt/cdrom/Perlbal-1.59-1.el5.noarch.rpm
rpm -i /mnt/cdrom/perl-mogilefs-server-2.20-4.el5.src.rpm
cd /usr/src/redhat/SPECS
rpmbuild -bp perl-mogilefs-server. spec
cd /usr/src/redhat/BUILD/mogilefs-server-2.20/
perl Makefile. PL
make
make install
cd . . / . .
rm -rf BUILD/mogilefs-server-2.20
```

挂载上软件代码光盘包 "PhaseII. fkoo"

rm -rf SPECS/perl-mogilefs-server.spec rm -rf SOURCES/mog* # 新建配置文件目录 mkdir /etc/mogilefs # 生成 Tracker 配置文件 # listen = 127.0.0.1, 跟踪器使用 WEB248 的本地 IP # db dsn = 10.0.0.6, 是 MogileFS 数据库的 IP # default mindevcoun 是默认备份在多少个 device 上备份;即备份多少份 echo -ne "daemonize = 1 db dsn = DBI:mysql:mogilefs fk:10.0.0.6 db user = mogile fk db pass = mogile pw listen = 127.0.0.1:6001 conf port = 6001query jobs = 2listener jobs = 10delete jobs = 1replicate jobs = 5 reaper jobs = 1default mindevcount = 2 " >> /etc/mogilefs/mogilefsd.conf cat /etc/mogilefs/mogilefsd.conf # 复制并设定 mogilefsd Tracker服务启动文件 cp /mnt/cdrom/mogilefsd.init /etc/init.d/mogilefsd #显示启动 mogilefsd 服务的用户名 # cat /etc/init.d/mogilefsd | grep dbUser # 取消执行 sudo 命令时需要终端的限制 vi /etc/sudoers # Defaults requiretty # 为运行 mogilefsd 添加运行用户 mogile_fk # 此用户与 dbUser / mogilefsd.conf 和 dbUser / mogilefsd 的相同 adduser mogile fk # mogilefsd 与 syslog 有依存关系, 启动syslog服务 chkconfig syslog on service syslog start # 设置 mogilefsd Tracker服务开启状态

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chmod 755 /etc/rc.d/init.d/mogilefsd
chkconfig --add mogilefsd
chkconfig mogilefsd on
service mogilefsd restart
ps -ef | grep mogilefsd
# 生成 mogadm 配置文件
echo -ne "trackers = 127.0.0.1:6001
" >> /etc/mogilefs/mogilefs.conf
cat /etc/mogilefs/mogilefs.conf
# 列出存储节点
mogadm host list
# 列出存储设备
mogadm device list
# 监测存储系统
mogadm check
# 安装mogilefs客户端模块
cd /tmp/
tar xvf /mnt/cdrom/neon-0.28.3.tar.tar
cd neon-0.28.3/
./configure
make
make install
cd ..
rm -rf neon-0.28.3
cd /tmp/
tar jxvf /mnt/cdrom/mogilefs-0.7.5b3.tar.tar
cd mogilefs-0.7.5b3/
/usr/local/php-fcgi/bin/phpize
make clean
./configure --with-php-config=/usr/local/php-fcgi/bin/php-config
make
make install
cd ..
rm -rf mogilefs-0.7.5b3
# Installing shared extensions:
                                  /usr/local/php-fcgi/lib/php/extensions/no-debug-non-zts-20060613/
#修改 php.ini 配置文件,添加 mogilefs.so 扩展库
# 确认 extension_dir = "/usr/local/php-fcgi/lib/php/extensions/no-debug-non-zts-20060613/"
# vi /usr/local/php-fcgi/etc/php.ini
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extension=mogilefs.so
# 测试 mogilefs. so 扩展库是否安装成功
/usr/local/php-fcgi/bin/php -r "var dump(extension loaded('mogilefs')):"
# 如果成功,应该显示为:
bool(true)
# ----- 标记安装步骤: WEB248 U10 ------
[root@WEB248 ~]# cat /usr/local/sqlrelay/bin/sqlr-on
#!/bin/sh
export PATH=$PATH:/usr/local/sqlrelay/bin
/usr/local/sqlrelay/bin/sqlr-start -id usersdata
/usr/local/sqlrelay/bin/sqlr-start -id logsdata
/usr/local/sqlrelay/bin/sqlr-start -id albumsdata
[root@WEB248 ~]# chmod 777 /usr/local/sqlrelay/bin/sqlr-on
[root@WEB248 ~]# vi /etc/rc.local
sleep 120
service mogilefsd restart
sleep 2
# /usr/local/sqlrelay/bin/sqlr-start.sh
/usr/local/sqlrelay/bin/sqlr-on
# 关闭不使用的 nfs 服务
chkconfig nfs off
service nfs stop
# 修改为通过 lighttpd 81端口浏览图片: lighttpd 7500端口上传图片
#将 lighttpd 服务设置为开机启动
chkconfig lighttpd on
chkconfig --list lighttpd
# 修改 lighttpd 配置文件
# vi /etc/lighttpd/lighttpd.conf
server.document-root = "/var/mogdata"
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server.port = 81
server.bind
                                                                                       = "192, 168, 1, 249"
url.rewrite
                                                                                       = ( "^{\hat{}}/fkcdn ([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/([0-9]+)/(
# 修改存储节点配置文件
# server = lighttpd, 表示 mogstored 启用 lighttpd 作为 webday
# httplisten = 192.168.1.249:7500, lighttpd 绑定监听公网的 7500 端口
echo -ne "server = lighttpd
serverbin = /usr/local/lighttpd/sbin/lighttpd
daemonize = 1
maxconns = 10000
httplisten = 192.168.1.249:7500
mgmtlisten = 0.0.0.0:7501
docroot = /var/mogdata
" >> /etc/mogilefs/mogstored.conf
cat /etc/mogilefs/mogstored.conf
# 重启 lighttpd 服务,并再重启 mogstored 服务,
             才能使得 mogstored 控制的 lighttpd 7500 端口启动
service lighttpd restart
service mogstored restart
#查看 lighttpd 进程, 应该有 2 个 lighttpd 和对应的配置启动了
# ps -ef | grep lighttpd
lighttpd -f /etc/lighttpd/lighttpd.conf
lighttpd -D -f /tmp/Vflu6p1Y17
```