**WEB之PHP学习笔记**

**1、FastCGI介绍**

CGI：CGI全称是“通用网关接口”(Common Gateway Interface)

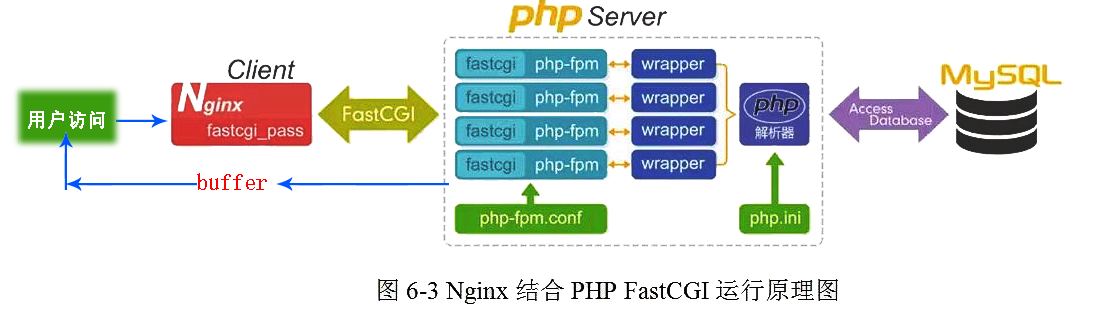
FastCGI：是一个可伸缩，高速地在HTTP服务器和动态脚本语言间通信的结构

FastCGI接口在Linux是socket，这个soket可是文件soket，也可以是ip socket

主要优点是把动态语言和HTTP服务器分离开来，多数流行的HTTP服务器都支持FastCGI，包括Apache、Nginx、lighttpd

php动态语言服务端可以启动多个FastCGI的守护进程（例如：php-fpm（fcgi process mangement））。

http服务器通过（例如：Nginx fastcgi\_pass） FastCGI客户端和动态语言FastCGI服务通信（例如php-fpm）。

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FastCGI的主要优点是把动态语言和HTTP服务器分离开来，使Nginx专一处理静态请求和向后转发动态请求

PHP/PHP-FPM服务器专一解析PHP动态请求

**2、php安装---5.5.26**

php73\_ver=7.3.0

php72\_ver=7.2.13

php71\_ver=7.1.25

php70\_ver=7.0.33

php56\_ver=5.6.39

php55\_ver=5.5.38

php54\_ver=5.4.45

php53\_ver=5.3.29

libiconv\_ver=1.15

curl\_ver=7.63.0

libmcrypt\_ver=2.5.8

mcrypt\_ver=2.6.8

mhash\_ver=0.9.9.9

libsodium\_ver=1.0.16

argon2\_ver=20171227

imagemagick\_ver=6.9.10-23

imagick\_ver=3.4.3

graphicsmagick\_ver=1.3.30

gmagick\_ver=2.0.5RC1

gmagick\_oldver=1.1.7RC3

zendopcache\_ver=7.0.5

xcache\_ver=3.2.0

apcu\_ver=5.1.16

apcu\_oldver=4.0.11

eaccelerator\_ver=0.9.6.1

phalcon\_ver=3.4.2

swoole\_ver=4.2.12

swoole\_oldver=1.10.5

xdebug\_ver=2.6.1

xdebug\_oldver=2.5.5

**安装方面优化部分---使用epel源**

**yum install zlib-devel libxml2-devel libjpeg-devel freetype-devel libpng-devel gd-devel curl-devel libxslt-devel -y**

**yum install -y libicu-devel**

**yum install patch -y**

openssl和curl根据情况来安装

libiconv 还是编译安装

wget -O /etc/yum.repos.d/epel.repo http://mirrors.aliyun.com/repo/epel-7.repo

yum -y install libmcrypt libmcrypt-devel

yum install mhash mhash-devel -y

yum install mcrypt -y

**测试php-fpm配置**

/usr/local/php/sbin/php-fpm -t

/usr/local/php/sbin/php-fpm -c /usr/local/php/etc/php.ini -y /usr/local/php/etc/php-fpm.conf -t

**启动php-fpm**

/usr/local/php/sbin/php-fpm

/usr/local/php/sbin/php-fpm -c /usr/local/php/etc/php.ini -y /usr/local/php/etc/php-fpm.conf

**必须安装的组件：**

**yum install zlib-devel libxml2-devel libjpeg-devel freetype-devel libpng-devel gd-devel curl-devel libxslt-devel -y**

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libjpeg-devel====>libjpeg-turbo-devel-1.2.1-3.el6\_5.x86\_64

curl-devel ====>libcurl-devel-7.19.7-40.el6\_6.4.x86\_64

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**rpm -qa zlib-devel libxml2-devel libjpeg-turbo-devel freetype-devel libpng-devel gd-devel libcurl-devel libxslt-devel**

freetype-devel-2.8-12.el7.x86\_64

libxml2-devel-2.9.1-6.el7\_2.3.x86\_64

libpng-devel-1.5.13-7.el7\_2.x86\_64

gd-devel-2.0.35-26.el7.x86\_64

libxslt-devel-1.1.28-5.el7.x86\_64

libcurl-devel-7.29.0-51.el7.x86\_64

zlib-devel-1.2.7-18.el7.x86\_64

libjpeg-turbo-devel-1.2.90-6.el7.x86\_64

**yum install -y libicu-devel**

[root@web01 /server/tools/php-5.3.29]# **rpm -qa libicu-devel**

libicu-devel-50.1.2-17.el7.x86\_64

**yum install patch -y**

**安装openssl--**

wget <http://distfiles.macports.org/openssl/openssl-1.0.2q.tar.gz>

tar zxvf openssl-1.0.2q.tar.gz

cd openssl-1.0.2q

make clean

./config -Wl,-rpath=/usr/local/openssl/lib -fPIC --prefix=/usr/local/openssl --openssldir=/usr/local/openssl

make depend

make

make install

cd ..

ll

**安装libiconv库**

1.14

wget [http://10.10.10.100/src/libiconv-1.14.tar.gz](http://106.14.199.213/sm/src/libiconv-1.14.tar.gz)

wget [http://10.10.10.100/src/libiconv-glibc-2.16.patch](http://106.14.199.213/sm/src/libiconv-glibc-2.16.patch)

tar zxvf libiconv-1.14.tar.gz

patch -d libiconv-1.14 -p0 < libiconv-glibc-2.16.patch

cd libiconv-1.14

./configure --prefix=/usr/local/libiconv

make && make install

cd ..

ll

1.15

wget [http://10.10.10.100/src/libiconv-1.15.tar.gz](http://106.14.199.213/sm/src/libiconv-1.15.tar.gz)

tar zxvf libiconv-1.15.tar.gz

cd libiconv-1.15

./configure --prefix=/usr/local/libiconv

make && make install

cd ..

ll

注：libiconv-1.15.tar.gz不需要打补丁

#1.14需要打补丁，否则报错

make[2]: \*\*\* [progname.o] Error 1

make[2]: \*\*\* Waiting for unfinished jobs....

make[2]: Leaving directory `/opt/sources/libiconv-1.14/srclib'

make[1]: \*\*\* [all] Error 2

make[1]: Leaving directory `/opt/sources/libiconv-1.14/srclib'

make: \*\*\* [all] Error 2

如下报错

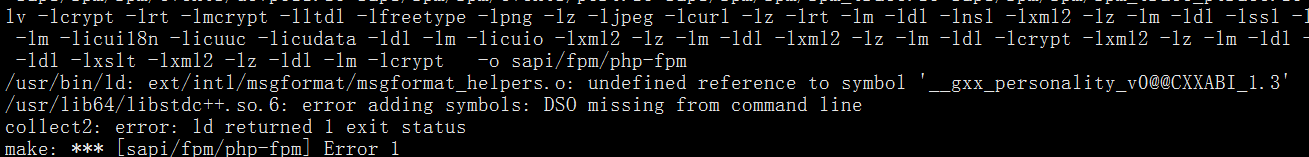
php编译的时候需要指定路径 --with-iconv-dir=/usr/local/libiconv

/usr/bin/ld: ext/intl/msgformat/msgformat\_helpers.o: undefined reference to symbol '\_\_gxx\_personality\_v0@@CXXABI\_1.3'

/usr/lib64/libstdc++.so.6: error adding symbols: DSO missing from command line

collect2: error: ld returned 1 exit status

make: \*\*\* [sapi/fpm/php-fpm] Error 1



**curl-安装**

#异步DNS解析需要的软件

yum install c-ares-devel -y

wget <http://10.10.10.100>/src/curl-7.54.1.tar.gz

tar zxvf curl-7.54.1.tar.gz

cd curl-7.54.1

./configure --enable-threaded-resolver --prefix=/usr/local/curl --with-ssl=/usr/local/openssl/

make

make install

cd ..

ll

后来经过验证：

yum -y install c-ares-devel

./configure --prefix=/usr/local/curl --with-ssl=/usr/local/openssl/

不用加其他参数也可以

#说明 openssl需要安装

CentOS编译安装libcurl/curl添加异步DNS解析c-ares

在使用curl异步并发请求时如果有大量域名解析会长时间阻塞程序IO

可以编译升级libcurl以支持异步DNS解析。

Centos7自带libcurl已支持异步DNS支持 --enable-threaded-resolver

可以使用curl-config --configure查看curl编译参数。

查看Libcurl是否已支持异步DNS解析，包含AsynchDNS为支持：

**/usr/local/bin/curl –version**

curl 7.19.7 (x86\_64-redhat-linux-gnu) libcurl/7.40.0 OpenSSL/1.0.1e zlib/1.2.3

Protocols: dict file ftp ftps gopher http https imap imaps pop3 pop3s rtsp smb smbs smtp smtps telnet tftp

Features: AsynchDNS IPv6 Largefile NTLM SSL libz

yum install c-ares-devel

编译libcurl库：如上述操作步骤

将libcurl动态库添加到动态链接库

echo '/usr/local/curl/lib' > /etc/ld.so.conf.d/libcurl.conf

ldconfig

phpinfo查看信息：



**安装libmcrypt 库**

wget http://10.10.10.100/src/libmcrypt-2.5.8.tar.gz

tar zxvf libmcrypt-2.5.8.tar.gz

cd libmcrypt-2.5.8

./configure

make && make install

ldconfig

cd libltdl/

./configure --enable-ltdl-install

make && make install

cd ../../

ll

**from-one没执行也可以编译安装成功**

ln -s /usr/local/bin/libmcrypt-config /usr/bin/libmcrypt-config

[ ! -e '/usr/include/freetype2/freetype' ] && ln -s /usr/include/freetype2 /usr/include/freetype2/freetype

**安装mhash** **----Mhash为PHP提供了多种哈希算法**

备用下载连接：

wget <https://nchc.dl.sourceforge.net/project/mhash/mhash/0.9.9.9/mhash-0.9.9.9.tar.gz>

wget <https://sourceforge.net/projects/mhash/files/mhash/0.9.9.9/mhash-0.9.9.9.tar.gz>

wget [http://10.10.10.100/src/mhash-0.9.9.9.tar.gz](http://106.14.199.213/sm/src/mhash-0.9.9.9.tar.gz)

tar zxvf mhash-0.9.9.9.tar.gz

cd mhash-0.9.9.9

./configure

make && make install

cd ..

ll

#一些库的设置，搞不懂啥j8意思

grep /usr/local/lib /etc/ld.so.conf.d/\*.conf

/etc/ld.so.conf.d/local.conf:/usr/local/lib

[root@web01 /server/tools/mhash-0.9.9.9]# cat /etc/ld.so.conf.d/local.conf

/usr/local/lib

如果grep或者cat没有/usr/local/lib

[ -z "`grep /usr/local/lib /etc/ld.so.conf.d/\*.conf`" ] && echo '/usr/local/lib' > /etc/ld.so.conf.d/local.conf

暂不懂什么j8意思

**ls -l /lib64/libpcre.so.1**

**lrwxrwxrwx 1 root root 16 Jan 13 18:37 /lib64/libpcre.so.1 -> libpcre.so.1.2.0**

**安装mcrypt ----mcrypt 是php里面重要的加密支持扩展库**

wget [http://10.10.10.100/src/mcrypt-2.6.8.tar.gz](http://106.14.199.213/sm/src/mcrypt-2.6.8.tar.gz)

tar zxvf mcrypt-2.6.8.tar.gz

cd mcrypt-2.6.8

ldconfig

./configure

make && make install

cd ..

ll

./configure错误：

checking for libmcrypt - version >= 2.5.0... yes

checking for mhash\_keygen in -lmhash... yes

checking whether mhash >= 0.8.15... no

configure: error: "You need at least libmhash 0.8.15 to compile this program. http://mhash.sf.net/"

解决：

ldconfig

**安装php-5.3**

php-fpm.log里大量报错

[24-Aug-2013 04:29:05] ERROR: unable to read what child say: Bad file descriptor (9)

[24-Aug-2013 04:29:05] ERROR: unable to read what child say: Bad file descriptor (9)

php-fpm.conf的配置文件里catch\_workers\_output = yes造成的，把yes改成no就好了，不报错了

存在这个bug的版本有3个，分别是：5.3.27, 5.4.17, 5.5.1 或者打补丁 fpm-race-condition.patch

**php-5.3-29安装步骤**

wget [http://10.10.10.100/src/[php-5.3.29.tar.gz](http://10.10.10.100/src/php-5.3.29.tar.gz)](http://106.14.199.213/sm/src/fpm-race-condition.patch)

wget http://10.10.10.100/src/php5.3patch

wget [http://10.10.10.100/src/debian\_patches\_disable\_SSLv2\_for\_openssl\_1\_0\_0.patch](http://106.14.199.213/sm/src/debian_patches_disable_SSLv2_for_openssl_1_0_0.patch)

wget [http://10.10.10.100/src/fpm-race-condition.patch](http://106.14.199.213/sm/src/fpm-race-condition.patch)

tar zxvf php-5.3.29.tar.gz

patch -d php-5.3.29 -p0 < fpm-race-condition.patch

cd php-5.3.29

patch -p1 < ../php5.3patch

patch -p1 < ../debian\_patches\_disable\_SSLv2\_for\_openssl\_1\_0\_0.patch

./configure ............

sed -i '/^BUILD\_/ s/\$(CC)/\$(CXX)/g' Makefile

make ZEND\_EXTRA\_LIBS='-liconv'

make install

ln -s /server/application/php-5.3.29/ /server/application/php53

[ -z "`grep ^'export PATH=' /etc/profile`" ] && echo "export PATH=/server/application/php/bin:\$PATH" >> /etc/profile

[ -n "`grep ^'export PATH=' /etc/profile`" -a -z "`grep /server/application/php /etc/profile`" ] && sed -i "s@^export PATH=\(.\*\)@export PATH=/server/application/php/bin:\1@" /etc/profile

source /etc/profile

cp /server/tools/php-5.3.29/php.ini-production /server/application/php53/etc/php.ini

sed -i "s@^memory\_limit.\*@memory\_limit = 192M@" /server/application/php53/etc/php.ini

sed -i 's@^output\_buffering =@output\_buffering = On\noutput\_buffering =@' /server/application/php53/etc/php.ini

sed -i 's@^short\_open\_tag = Off@short\_open\_tag = On@' /server/application/php53/etc/php.ini

sed -i 's@^expose\_php = On@expose\_php = Off@' /server/application/php53/etc/php.ini

sed -i 's@^request\_order.\*@request\_order = "CGP"@' /server/application/php53/etc/php.ini

sed -i "s@^date.timezone.\*@date.timezone = Asia/Shanghai@" /server/application/php53/etc/php.ini

sed -i 's@^post\_max\_size.\*@post\_max\_size = 100M@' /server/application/php53/etc/php.ini

sed -i 's@^upload\_max\_filesize.\*@upload\_max\_filesize = 50M@' /server/application/php53/etc/php.ini

sed -i 's@^max\_execution\_time.\*@max\_execution\_time = 5@' /server/application/php53/etc/php.ini

sed -i 's@^disable\_functions.\*@disable\_functions = passthru,exec,system,chroot,chgrp,chown,shell\_exec,proc\_open,proc\_get\_status,ini\_alter,ini\_restore,dl,openlog,syslog,readlink,symlink,popepassthru,stream\_socket\_server,fsocket,popen@' /server/application/php53/etc/php.ini

修改php.ini

date.timezone = Asia/Shanghai

[ -e /usr/sbin/sendmail ] && sed -i 's@^;sendmail\_path.\*@sendmail\_path = /usr/sbin/sendmail -t -i@' /server/application/php53/etc/php.ini

cat > /server/application/php53/etc/php-fpm.conf <<EOF

[global]

pid = run/php-fpm.pid

error\_log = log/php-fpm.log

log\_level = warning

emergency\_restart\_threshold = 30

emergency\_restart\_interval = 60s

process\_control\_timeout = 5s

daemonize = yes

[www]

listen = /dev/shm/php-cgi-53.sock

listen.backlog = -1

listen.allowed\_clients = 127.0.0.1

listen.owner = www

listen.group = www

listen.mode = 0666

user = www

group = www

pm = dynamic

pm.max\_children = 12

pm.start\_servers = 8

pm.min\_spare\_servers = 6

pm.max\_spare\_servers = 12

pm.max\_requests = 2048

pm.process\_idle\_timeout = 10s

request\_terminate\_timeout = 120

request\_slowlog\_timeout = 0

pm.status\_path = /php-fpm\_status

slowlog = log/slow.log

rlimit\_files = 51200

rlimit\_core = 0

catch\_workers\_output = yes

;env[HOSTNAME] = web01

env[PATH] = /usr/local/bin:/usr/bin:/bin

env[TMP] = /tmp

env[TMPDIR] = /tmp

env[TEMP] = /tmp

EOF

**特别说明：****make ZEND\_EXTRA\_LIBS='-liconv' 和make的区别**

**libiconv的安装目录为/usr/local 则可以使用make ZEND\_EXTRA\_LIBS='-liconv'**

**如果为：/usr/local/libiconv 则使用make**

**取决于libiconv 安装方式**

如果不加make ZEND\_EXTRA\_LIBS='-liconv' ，在编译php的时候，config可能没有问题，但在make的时候可能出现undefined reference to `libiconv\_open'  
collect2: ld returned 1 exit status  
make: \*\*\* [sapi/cli/php] Error 1  
所以为了解决这个问题，需要使用make ZEND\_EXTRA\_LIBS='-liconv'

**php-5.4.45安装步骤**

wget http://10.10.10.100/src/php-5.4.45.tar.gz

tar php-5.4.45.tar.gz

tar zxvf php-5.4.45.tar.gz

wget http://10.10.10.100/src/fpm-race-condition.patch

patch -d php-5.4.45 -p0 < fpm-race-condition.patch

cd php-5.4.45

./configure ............

make

make install

ln -s /server/application/php-5.4.45/ /server/application/php54

echo 'export PATH=/server/application/php54/bin:$PATH' >>/etc/profile

source /etc/profie

cp /server/tools/php-5.4.45/php.ini-production /server/application/php54/etc/php.ini

sed -i "s@^memory\_limit.\*@memory\_limit = 192M@" /server/application/php54/etc/php.ini

sed -i 's@^output\_buffering =@output\_buffering = On\noutput\_buffering =@' /server/application/php54/etc/php.ini

sed -i 's@^short\_open\_tag = Off@short\_open\_tag = On@' /server/application/php54/etc/php.ini

sed -i 's@^expose\_php = On@expose\_php = Off@' /server/application/php54/etc/php.ini

sed -i 's@^request\_order.\*@request\_order = "CGP"@' /server/application/php54/etc/php.ini

sed -i "s@^date.timezone.\*@date.timezone = Asia/Shanghai@" /server/application/php54/etc/php.ini

sed -i 's@^post\_max\_size.\*@post\_max\_size = 100M@' /server/application/php54/etc/php.ini

sed -i 's@^upload\_max\_filesize.\*@upload\_max\_filesize = 50M@' /server/application/php54/etc/php.ini

sed -i 's@^max\_execution\_time.\*@max\_execution\_time = 5@' /server/application/php54/etc/php.ini

sed -i 's@^disable\_functions.\*@disable\_functions = passthru,exec,system,chroot,chgrp,chown,shell\_exec,proc\_open,proc\_get\_status,ini\_alter,ini\_restore,dl,openlog,syslog,readlink,symlink,popepassthru,stream\_socket\_server,fsocket,popen@' /server/application/php54/etc/php.ini

修改php.ini

date.timezone = Asia/Shanghai

[ -e /usr/sbin/sendmail ] && sed -i 's@^;sendmail\_path.\*@sendmail\_path = /usr/sbin/sendmail -t -i@' /server/application/php54/etc/php.ini

cat > /server/application/php54/etc/php-fpm.conf <<EOF

[global]

pid = run/php-fpm.pid

error\_log = log/php-fpm.log

log\_level = warning

emergency\_restart\_threshold = 30

emergency\_restart\_interval = 60s

process\_control\_timeout = 5s

daemonize = yes

[www]

listen = /dev/shm/php-cgi-54.sock

listen.backlog = -1

listen.allowed\_clients = 127.0.0.1

listen.owner = www

listen.group = www

listen.mode = 0666

user = www

group = www

pm = dynamic

pm.max\_children = 12

pm.start\_servers = 8

pm.min\_spare\_servers = 6

pm.max\_spare\_servers = 12

pm.max\_requests = 2048

pm.process\_idle\_timeout = 10s

request\_terminate\_timeout = 120

request\_slowlog\_timeout = 0

pm.status\_path = /php-fpm\_status

slowlog = log/slow.log

rlimit\_files = 51200

rlimit\_core = 0

catch\_workers\_output = yes

;env[HOSTNAME] = web01

env[PATH] = /usr/local/bin:/usr/bin:/bin

env[TMP] = /tmp

env[TMPDIR] = /tmp

env[TEMP] = /tmp

EOF

**php-5.5.38安装步骤**

wget http://10.10.10.100/src/php-5.5.38.tar.gz

tar php-5.5.38.tar.gz

tar zxvf php-5.5.38.tar.gz

wget http://10.10.10.100/src/fpm-race-condition.patch

patch -d php-5.5.38 -p0 < fpm-race-condition.patch

cd php-5.5.38

./configure ............

make

make install

ln -s /server/application/php-5.5.38/ /server/application/php55

echo 'export PATH=/server/application/php55/bin:$PATH' >>/etc/profile

cp /server/tools/php-5.5.38/php.ini-production /server/application/php55/etc/php.ini

sed -i "s@^memory\_limit.\*@memory\_limit = 192M@" /server/application/php55/etc/php.ini

sed -i 's@^output\_buffering =@output\_buffering = On\noutput\_buffering =@' /server/application/php55/etc/php.ini

sed -i 's@^short\_open\_tag = Off@short\_open\_tag = On@' /server/application/php55/etc/php.ini

sed -i 's@^expose\_php = On@expose\_php = Off@' /server/application/php55/etc/php.ini

sed -i 's@^request\_order.\*@request\_order = "CGP"@' /server/application/php55/etc/php.ini

sed -i "s@^date.timezone.\*@date.timezone = Asia/Shanghai@" /server/application/php55/etc/php.ini

sed -i 's@^post\_max\_size.\*@post\_max\_size = 100M@' /server/application/php55/etc/php.ini

sed -i 's@^upload\_max\_filesize.\*@upload\_max\_filesize = 50M@' /server/application/php55/etc/php.ini

sed -i 's@^max\_execution\_time.\*@max\_execution\_time = 5@' /server/application/php55/etc/php.ini

sed -i 's@^disable\_functions.\*@disable\_functions = passthru,exec,system,chroot,chgrp,chown,shell\_exec,proc\_open,proc\_get\_status,ini\_alter,ini\_restore,dl,openlog,syslog,readlink,symlink,popepassthru,stream\_socket\_server,fsocket,popen@' /server/application/php55/etc/php.ini

修改php.ini

date.timezone = Asia/Shanghai

[ -e /usr/sbin/sendmail ] && sed -i 's@^;sendmail\_path.\*@sendmail\_path = /usr/sbin/sendmail -t -i@' /server/application/php55/etc/php.ini

cat > /server/application/php55/etc/php-fpm.conf <<EOF

[global]

pid = run/php-fpm.pid

error\_log = log/php-fpm.log

log\_level = warning

emergency\_restart\_threshold = 30

emergency\_restart\_interval = 60s

process\_control\_timeout = 5s

daemonize = yes

[www]

listen = /dev/shm/php-cgi-55.sock

listen.backlog = -1

listen.allowed\_clients = 127.0.0.1

listen.owner = www

listen.group = www

listen.mode = 0666

user = www

group = www

pm = dynamic

pm.max\_children = 12

pm.start\_servers = 8

pm.min\_spare\_servers = 6

pm.max\_spare\_servers = 12

pm.max\_requests = 2048

pm.process\_idle\_timeout = 10s

request\_terminate\_timeout = 120

request\_slowlog\_timeout = 0

pm.status\_path = /php-fpm\_status

slowlog = log/slow.log

rlimit\_files = 51200

rlimit\_core = 0

catch\_workers\_output = yes

;env[HOSTNAME] = web01

env[PATH] = /usr/local/bin:/usr/bin:/bin

env[TMP] = /tmp

env[TMPDIR] = /tmp

env[TEMP] = /tmp

EOF

**php-5.6.39安装步骤**

wget http://10.10.10.100/src/php-5.6.39.tar.gz

tar php-5.6.39.tar.gz

tar zxvf php-5.6.39.tar.gz

cd php-5.6.39

./configure ............

make

make install

ln -s /server/application/php-5.6.39/ /server/application/php56

echo 'export PATH=/server/application/php56/bin:$PATH' >>/etc/profile

cp /server/tools/php-5.6.39/php.ini-production /server/application/php56/etc/php.ini

sed -i "s@^memory\_limit.\*@memory\_limit = 192M@" /server/application/php56/etc/php.ini

sed -i 's@^output\_buffering =@output\_buffering = On\noutput\_buffering =@' /server/application/php56/etc/php.ini

sed -i 's@^short\_open\_tag = Off@short\_open\_tag = On@' /server/application/php56/etc/php.ini

sed -i 's@^expose\_php = On@expose\_php = Off@' /server/application/php56/etc/php.ini

sed -i 's@^request\_order.\*@request\_order = "CGP"@' /server/application/php56/etc/php.ini

sed -i "s@^date.timezone.\*@date.timezone = Asia/Shanghai@" /server/application/php56/etc/php.ini

sed -i 's@^post\_max\_size.\*@post\_max\_size = 100M@' /server/application/php56/etc/php.ini

sed -i 's@^upload\_max\_filesize.\*@upload\_max\_filesize = 50M@' /server/application/php56/etc/php.ini

sed -i 's@^max\_execution\_time.\*@max\_execution\_time = 5@' /server/application/php56/etc/php.ini

sed -i 's@^disable\_functions.\*@disable\_functions = passthru,exec,system,chroot,chgrp,chown,shell\_exec,proc\_open,proc\_get\_status,ini\_alter,ini\_restore,dl,openlog,syslog,readlink,symlink,popepassthru,stream\_socket\_server,fsocket,popen@' /server/application/php56/etc/php.ini

修改php.ini

date.timezone = Asia/Shanghai

[ -e /usr/sbin/sendmail ] && sed -i 's@^;sendmail\_path.\*@sendmail\_path = /usr/sbin/sendmail -t -i@' /server/application/php56/etc/php.ini

cat > /server/application/php56/etc/php-fpm.conf <<EOF

[global]

pid = run/php-fpm.pid

error\_log = log/php-fpm.log

log\_level = warning

emergency\_restart\_threshold = 30

emergency\_restart\_interval = 60s

process\_control\_timeout = 5s

daemonize = yes

[www]

listen = /dev/shm/php-cgi-56.sock

listen.backlog = -1

listen.allowed\_clients = 127.0.0.1

listen.owner = www

listen.group = www

listen.mode = 0666

user = www

group = www

pm = dynamic

pm.max\_children = 12

pm.start\_servers = 8

pm.min\_spare\_servers = 6

pm.max\_spare\_servers = 12

pm.max\_requests = 2048

pm.process\_idle\_timeout = 10s

request\_terminate\_timeout = 120

request\_slowlog\_timeout = 0

pm.status\_path = /php-fpm\_status

slowlog = log/slow.log

rlimit\_files = 51200

rlimit\_core = 0

catch\_workers\_output = yes

;env[HOSTNAME] = web01

env[PATH] = /usr/local/bin:/usr/bin:/bin

env[TMP] = /tmp

env[TMPDIR] = /tmp

env[TEMP] = /tmp

EOF

**php-7.0.30安装步骤**

wget http://10.10.10.100/src/php-7.0.30.tar.gz

tar php-7.0.30.tar.gz

tar zxvf php-7.0.30.tar.gz

cd php-7.0.30

./configure ............

make

make install

ln -s /server/application/php-7.0.30/ /server/application/php70

echo 'export PATH=/server/application/php70/bin:$PATH' >>/etc/profile

cp /server/tools/php-7.0.30/php.ini-production /server/application/php70/etc/php.ini

sed -i "s@^memory\_limit.\*@memory\_limit = 192M@" /server/application/php70/etc/php.ini

sed -i 's@^output\_buffering =@output\_buffering = On\noutput\_buffering =@' /server/application/php70/etc/php.ini

sed -i 's@^short\_open\_tag = Off@short\_open\_tag = On@' /server/application/php70/etc/php.ini

sed -i 's@^expose\_php = On@expose\_php = Off@' /server/application/php70/etc/php.ini

sed -i 's@^request\_order.\*@request\_order = "CGP"@' /server/application/php70/etc/php.ini

sed -i "s@^date.timezone.\*@date.timezone = Asia/Shanghai@" /server/application/php70/etc/php.ini

sed -i 's@^post\_max\_size.\*@post\_max\_size = 100M@' /server/application/php70/etc/php.ini

sed -i 's@^upload\_max\_filesize.\*@upload\_max\_filesize = 50M@' /server/application/php70/etc/php.ini

sed -i 's@^max\_execution\_time.\*@max\_execution\_time = 5@' /server/application/php70/etc/php.ini

sed -i 's@^disable\_functions.\*@disable\_functions = passthru,exec,system,chroot,chgrp,chown,shell\_exec,proc\_open,proc\_get\_status,ini\_alter,ini\_restore,dl,openlog,syslog,readlink,symlink,popepassthru,stream\_socket\_server,fsocket,popen@' /server/application/php70/etc/php.ini

sed -i 's@^;realpath\_cache\_size.\*@realpath\_cache\_size = 2M@' /server/application/php70/etc/php.ini

sed -i "s@^;curl.cainfo.\*@curl.cainfo = /usr/local/openssl/cert.pem@" /server/application/php70/etc/php.ini

sed -i "s@^;openssl.cafile.\*@openssl.cafile = /usr/local/openssl/cert.pem@" /server/application/php70/etc/php.ini

修改php.ini

date.timezone = Asia/Shanghai

[ -e /usr/sbin/sendmail ] && sed -i 's@^;sendmail\_path.\*@sendmail\_path = /usr/sbin/sendmail -t -i@' /server/application/php56/etc/php.ini

cat > /server/application/php70/etc/php-fpm.conf <<EOF

[global]

pid = run/php-fpm.pid

error\_log = log/php-fpm.log

log\_level = warning

emergency\_restart\_threshold = 30

emergency\_restart\_interval = 60s

process\_control\_timeout = 5s

daemonize = yes

[www]

listen = /dev/shm/php-cgi-70.sock

listen.backlog = -1

listen.allowed\_clients = 127.0.0.1

listen.owner = www

listen.group = www

listen.mode = 0666

user = www

group = www

pm = dynamic

pm.max\_children = 12

pm.start\_servers = 8

pm.min\_spare\_servers = 6

pm.max\_spare\_servers = 12

pm.max\_requests = 2048

pm.process\_idle\_timeout = 10s

request\_terminate\_timeout = 120

request\_slowlog\_timeout = 0

pm.status\_path = /php-fpm\_status

slowlog = log/slow.log

rlimit\_files = 51200

rlimit\_core = 0

catch\_workers\_output = yes

;env[HOSTNAME] = web01

env[PATH] = /usr/local/bin:/usr/bin:/bin

env[TMP] = /tmp

env[TMPDIR] = /tmp

env[TEMP] = /tmp

EOF

**编译参数部分说明**

由于php打开fileinfo（php参数–enable-fileinfo）需要大量系统资源才能编译通过，考虑到小内存机器，因此默认fileinfo不支持，需额外再安装

如果需要支持fileinfo，如下：  
开始编译

cd /root/oneinstack/src  
tar zxvf php-5.6.20.tar.gz # 解压已经安装的php版本  
cd php-5.6.20/ext/fileinfo  
/usr/local/php/bin/phpize  
./configure --with-php-config=/usr/local/php/bin/php-config  
make && make install  
cd /usr/local/php/lib/php/extensions  
ls #看到no-debug-non-zts-20131226类似文件夹  
cd no-debug-non-zts-20131226  
ls #查看有没有 fileinfo.so,如果有，证明编译成功  
加载fileinfo  
echo 'extension=fileinfo.so' > /usr/local/php/etc/php.d/ext-fileinfo.ini

自己扩展加的

--disable-fileinfo 内存小会报错 后期补安装的话和gettext一样

--enable-intl Enable internationalization support （bt和one都有）

没加可以加的

--enable-exif 启用EXIF支持（从图片中获取元数据）

--disable-debug 关闭调试模式 生产环境可以关闭，

老男孩老师推荐有的但是未使用，one和bt都没加

--enable-static PKGS Build static libraries default=yes 生成静态链接库

--with-curlwrappers  运用curl工具打开url流

老男孩老师推荐加，实验中加上了，one和bt都没加

--enable-zend-multibyte //支持zend的多字节 （5.3以后好像不需要了）

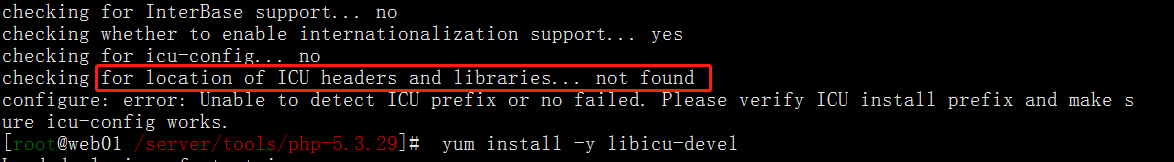
--enable-short-tags PHP 也允许使用短标记 <? 和 ?>，但不鼓励使用。只有通过激活 php.ini 中的 [short\_open\_tag](http://php.net/manual/zh/ini.core.php#ini.short-open-tag) 配置指令或者在编译 PHP 时使用了配置选项 --enable-short-tags 时才能使用短标记。

#bt有one没有老男孩没有 --enable-magic-quotes 启用 magic quotes。本特性已自 PHP 5.3.0 起废弃并将自 PHP 5.4.0 起移除

#bt有，老男孩有 --enable-safe-mode 默认启用安全模式。本特性已自 PHP 5.3.0 起废弃并将自 PHP 5.4.0 起移除

#老男孩有 BT没有 --with-xsl 打开XSLT 文件支持，扩展了libXML2库 ，需要libxslt软件

常见错误：



如果不加make ZEND\_EXTRA\_LIBS='-liconv' ，在编译php的时候，config可能没有问题，但在make的时候可能出现undefined reference to `libiconv\_open'  
collect2: ld returned 1 exit status  
make: \*\*\* [sapi/cli/php] Error 1  
所以为了解决这个问题，需要使用make ZEND\_EXTRA\_LIBS='-liconv'

**发电房**

**./configure --编译参数**

**–prefix=/application/php5.3.27**--指定php的安装路径为/application/php5.3.27

**–with-mysql=/application/mysql/**  
--需要指定mysql的安装路径,安装PHP需要的MySQL相关内容。当然如果没有MySQL软件包，也可以不单独安装，这样的情况可使用**–with-mysql=mysqlnd**替代–with-mysql=/application/mysql,因为PHP软件里面已经自带连接MySQL的客户端工具。

–with-iconv-dir=/usr/local/libiconv    --libiconv库,各种字符集间的转换

–with-freetype-dir    --打开对freetype字体库支持

–with-jpeg-dir --打开对jpeg图片的支持

–with-png-dir --打开对png图片的支持

–with-zlib --打开zlib库的支持,用于http压缩传输

–with-libxml-dir=/usr --打开libxml2库的支持

–enable-xml    --

–disable-rpath --关闭额外的运行库文件

–enable-safe-mode --打开安全模式

–enable-bcmath --打开图片大小调整,用zabbix监控时会用到该模块

–enable-shmop --

–enable-sysvsem --使用sysv信号机制,则打开此选项

–enable-inline-optimization --优化线程

–with-curl --打开curl浏览工具的支持

–with-curlwrappers --运维curl工具打开url流

–enable-mbregex --

–enable-mbstring --支持mbstring

–with-mcrypt --编码函数库

–with-gd --打开gd库的支持

–enable-gd-native-ttf --支持TrueType字符串函数库

–with-openssl --openssl的支持,加密传输时用到

–with-mhash --mhash算法的扩展

–enable-pcntl --freeTDS需要用到,可能是链接mssql

–enable-sockets --打开sockets支持

–with-xmlrpc --打开xml-rpc的c语言

–enable-zip --打开对zip的支持

–enable-soap --soap模块的扩展

–enable-short-tags --开始和标记函数

–enable-zend-multibyte --支持zend的多字节

–enable-static --生成静态链接库

–with-xsl --打开XSLT文件支持,扩展libXML2库,需要libxslt软件

–enable-ftp    --打开ftp的支持

**–enable-fpm**    --表示激活PHP-FPM方式服务,即FactCGI方式运行PHP服务。

**–with-fpm-user=www**    --指定PHP-FPM进程管理的用户为www,此处最好和Nginx服务用户统一。

**–with-fpm-group=www**    --指定PHP-FPM进程管理用户组为www,此处最好和Nginx服务用户组统一。

[root@lnmp01 php]# ln -s /application/mysql/lib/libmysqlclient.so.18  /usr/lib64/--软链接

[root@lnmp01 php]# touch ext/phar/phar.phar --创建php安装需要文件  
[root@lnmp01 php]# make && make install --编译安装

[root@lnmp01 php]# ln -s /application/php5.3.27/ /application/php --链接去版本(方便升级及后续维护)

[root@lnmp01 php]# cp /application/tools/php-5.3.27/php.ini-production /application/php/lib/php.ini --拷贝php.ini需要配置文件

[root@lnmp01 php]# cp /application/php/etc/php-fpm.conf.default /application/php/etc/php-fpm.conf --拷贝php-fpm配置文件

[root@lnmp01 php]# /application/php/sbin/php-fpm --启动php-fpm

**#源码包里含有配开发环境 和生产环境的php.ini**

[root@web02 php-5.3.29]# diff php.ini-\*

php.ini-development php.ini-production

开发环境把错误打开，生成环境把错误关闭

**关于php支持mysql**

当php和mysql不在一台服务器的时候编译参数

--with-mysql=mysqlnd \ # php7.0以后 --enable-mysqlnd

--with-mysqli=mysqlnd \

--with-pdo-mysql=mysqlnd \

当在一台机器的时候两种方法都可以

--with-mysql=/application/mysql/