

Linux 下安装 apache+PHP 环境

安装环境：CentOS-7.6

Apache 的相关软件包下载地址：

<http://httpd.apache.org/download.cgi#apache24>

我这里使用的相关软件：

1 Apache HTTP Server：

<http://mirrors.tuna.tsinghua.edu.cn/apache//httpd/httpd-2.4.39.tar.gz>

2 Apr 和 Apr-Util：

<http://mirror.bit.edu.cn/apache//apr/apr-1.6.5.tar.gz>

<http://mirror.bit.edu.cn/apache//apr/apr-util-1.6.1.tar.gz>

3 Pcre：

<https://ftp.pcre.org/pub/pcre/pcre-8.32.tar.gz>

4 PHP：

<http://cn.php.net/distributions/php-7.2.19.tar.gz>

安装相关依赖包：

安装 gcc：

```
yum install -y gcc-c++
```

安装依赖包 expat-devel、zlib-devel、openssl-devel

```
yum install -y expat-devel zlib-devel openssl-devel
```

安装 apr：

```
tar -zxvf apr-1.6.5.tar.gz
```

```
cd apr-1.6.5
```

```
./configure --prefix=/usr/local/apr
```

```
make && make install
```

安装 apr-util：

```
tar -zxvf apr-util-1.6.1.tar.gz
```

```
cd apr-util-1.6.1
```

```
./configure --prefix=/usr/local/apr-util --with-apr=/usr/local/apr
```

```
make && make install
```

安装依赖包 pcre

```
tar zxvf pcre-8.32.tar.gz
```

```
cd pcre-8.32
```

```
./configure --prefix=/usr/local/pcre
```

```
make && make install
```

解压 Apache 安装包:

```
tar zxvf httpd-2.4.39.tar.gz
```

```
cd httpd-2.4.39
```

```
./configure --prefix=/usr/local/server/apache \
```

```
--with-apr=/usr/local/apr \
```

```
--with-apr-util=/usr/local/apr-util \
```

```
--with-pcre=/usr/local/pcre \
```

```
--with-mysql=shared,mysqlnd \
```

```
--enable-so \
```

```
--enable-ssl \
```

```
--enable-deflate \
```

```
--enable-rewrite \
```

```
--enable-headers \
```

```
--enable-expire \
```

```
--disable-cgid \
```

```
--disable-cgi
```

```
make && make install
```

修改配置文件 httpd.conf:

```
vim /usr/local/server/apache/conf/httpd.conf
```

找到如下图 去掉#注释, 修改为 ServerName localhost:80 , 可以找到 Listen
修改端口

```
# ServerName gives the name and port that the server uses to identify its
# This can often be determined automatically, but we recommend you specify
# it explicitly to prevent problems during startup.
#
# If your host doesn't have a registered DNS name, enter its IP address here
#
#ServerName www.example.com:80

#
# prevent Apache from glomming onto all bound ports
#
#Listen 12.34.56.78:80
Listen 80
#
```

将 httpd 加入系统服务并设置开机自启:

1 将 httpd 加入系统服务

```
cp /usr/local/server/apache/bin/apachectl /etc/init.d/httpd
```

2 修改/etc/init.d/httpd

```
vim /etc/init.d/httpd
```

在第 3 行加入以下内容

```
# chkconfig: 345 85 15
```

```
# description: Activates/Deactivates Apache Web Server
```

(ps: '#' 不可去掉)

如需设置系统服务开机自启 (我这里就不设置了)

```
systemctl enable httpd
```

启动 Apache 服务:

```
service httpd start
```

重启:

```
service httpd restart
```

停止:

```
service httpd stop
```

安装 PHP

安装依赖包 (为了安装过程的顺利):

```
yum -y install wget vim pcre pcre-devel openssl openssl-devel \
libcuro-devel gcc gcc-c++ autoconf libjpeg libjpeg-devel libpng \
```

```

libpng-devel freetype freetype-devel libxml2 libxml2-devel zlib \
zlib-devel glibc glibc-devel glib2 glib2-devel ncurses ncurses-devel
\
curl curl-devel krb5-devel libidn libidn-devel openldap openldap-dev
el \
nss ldap jemalloc-devel cmake boost-devel bison automake libevent \
libevent-devel gd gd-devel libtool* libmcrypt libmcrypt-devel mcrypt
\
mhash libxslt libxslt-devel readline readline-devel gmp gmp-devel \
libcurl libcurl-devel openjpeg-devel libcurl.x86_64 libcurl-devel.x86_64 \
libjpeg-turbo libjpeg-turbo-devel libpng freetype libpng-devel \
freetype-devel icu libicu libicu-devel openldap openldap-clients \
openldap-devel openldap-servers

```

```
cp -frp /usr/lib64/libldap* /usr/lib/
```

解压 PHP 压缩包

```
tar zxvf php-7.2.19.tar.gz
```

```
cd php-7.2.19
```

编译安装

```

./configure --prefix=/usr/local/server/php \
--with-apxs2=/usr/local/server/apache/bin/apxs \
--with-config-file-path=/usr/local/server/php \
--enable-fpm \
--with-fpm-user=www \
--with-fpm-group=www \
--enable-mysqlnd \
--with-mysqli=mysqlnd \
--with-pdo-mysql=mysqlnd \

```

```
--enable-mysqld-compression-support \  
--with-iconv-dir \  
--with-freetype-dir \  
--with-jpeg-dir \  
--with-png-dir \  
--with-zlib \  
--with-libxml-dir \  
--enable-xml \  
--disable-rpath \  
--enable-bcmath \  
--enable-shmop \  
--enable-sysvsem \  
--enable-inline-optimization \  
--with-curl \  
--enable-mbregex \  
--enable-mbstring \  
--enable-intl \  
--with-libmbfl \  
--enable-ftp \  
--with-gd \  
--with-openssl \  
--with-mhash \  
--enable-pcntl \  
--enable-sockets \  
--with-xmlrpc \  
--enable-zip \  
--enable-soap \  
--with-gettext \  
--disable-fileinfo \
```

```
--enable-opcache \  
--with-pear \  
--enable-maintainer-zts \  
--with-ldap=shared \  
--without-gdbm  
make && make install
```

（如果上面步骤出现错误可以尝试再试一次）

配置 php.ini:

将配置文件拷贝到 PHP 安装目录

```
cp php.ini-* /usr/local/server/php/
```

生成 php.ini

```
cp php.ini-development /usr/local/server/php/php.ini
```

```
cp /usr/local/server/php/etc/php-fpm.conf.default /usr/local/server/  
php/etc/php-fpm.conf
```

修改 php.ini 配置文件:

```
vi /usr/local/server/php/php.ini
```

可以参考如下配置:

```
expose_php = Off
```

```
short_open_tag = ON
```

```
max_execution_time = 300
```

```
max_input_time = 300
```

```
memory_limit = 128M
```

```
post_max_size = 32M
```

```
date.timezone = Asia/Shanghai
```

```
mbstring.func_overload=2
```

```
extension_dir =
```

```
"/usr/local/server/php/lib/php/extensions/no-debug-zts-20170718/"
```

修改 httpd.conf:

```
vi /usr/local/server/apache/conf/httpd.conf
```

载入 PHP 模块, 如 httpd.conf 中有下列代码则直接去掉前面#即可, 没有则加入 (注意: 这里如果有了请不要重复加入)

```
LoadModule php7_module modules/libphp7.so
```

在底部加入以下代码使得 Apache 可以解析 php 文件:

```
<IfModule mod_php7.c>
```

```
AddType application/x-httpd-php .php
```

```
</IfModule>
```

找到如下代码, 在 index.html 后面加入 index.php (设置欢迎页面, 该步骤可省略)

```
<IfModule dir_module>
```

```
DirectoryIndex index.html
```

```
</IfModule>
```

重启 Apache

```
service httpd restart
```

测试 PHP 是否成功安装

创建 /usr/local/server/apache/htdocs/index.php

```
vim /usr/local/server/apache/htdocs/index.php
```

在 index.php 中编写以下代码

```
<?php
```

```
phpinfo();
```

```
?>
```

然后访问试一下!

<http://x.x.x.x/index.php>