**http://www.centoscn.com/CentosServer/www/2015/0806/5966.html**

**1、确认搭建LAMP所需的环境是否已经安装:**

**[root@localhost ~]#rpm -q make gcc gcc-c++ zlib-devel libtool libtool-ltdl libtool-ltdl-devel bisonncurses-devel**

**备注:安装libpng时需要zlib-devel**

**安装php时需要libtool、libtool-ltdl、libtool-ltdl-devel**

**安装mysql时需要bison、ncurses-devel**

**2、如果没安装则yum安装:**

**[root@localhost~]#yum -y install make gcc gcc-c++ zlib-devel libtool libtool-ltdllibtool-ltdl-devel bison ncurses-devel**

**3、由于要使用编译安装，所以查看httpd、mysql、php是否安装:**

**[root@localhost ~]#rpm -q httpd mysql php**

**如果安装则卸载:**

**[root@localhost ~]#rpm -e httpd --nodeps**

**[root@localhost ~]#rpm -e mysql --nodeps**

**[root@localhost ~]#rpm -e php --nodeps**

**编译安装过程介绍：**

**1）解压tar.gz为后缀的压缩软件包：LAMP环境搭建所需要的每个软件的软代码文件，都是以tar.gz或.tgz提供给我们的打包压缩文件，所以我们必须将其解压再解包。命令如下：**

**tar–zxvf \*.tar.gz**

**2）在linux系统中源代码包安装过程：LAMP环境搭建所需要的软件都是使用C语言开发的，所以安装源代码文件最少需要配置、编译和安装三个步骤**

**配置（configure）、编译（make）、安装（makeinstall）**

**4、编译安装libxml2**

**[root@localhostlinux]# tar -zxvf libxml2-2.6.30.tar.gz**

**[root@localhostlinux]# cd libxml2-2.6.30**

**[root@localhostlibxml2-2.6.30]# ./configure --prefix=/usr/local/libxml2**

**[root@localhostlibxml2-2.6.30]# make**

**[root@localhostlibxml2-2.6.30]# make install**

**5、编译安装libmcrypt**

**[root@localhostlinux]# tar -zxvf libmcrypt-2.5.8.tar.gz**

**[root@localhostlinux]# cd libmcrypt-2.5.8**

**[root@localhostlibmcrypt-2.5.8]# ./configure --prefix=/usr/local/libmcrypt**

**[root@localhostlibmcrypt-2.5.8]# make**

**[root@localhostlibmcrypt-2.5.8]# make install**

**6、编译安装zlib**

**[root@localhostlinux]# tar -zxvf zlib-1.2.3.tar.gz**

**[root@localhostlinux]# cd zlib-1.2.3**

**[root@localhostzlib-1.2.3]# CFLAGS="-O3 -fPIC" ./configure --prefix=/usr/local/zlib/**

**（用64位元的方法进行编译）**

**[root@localhostzlib-1.2.3]# make**

**[root@localhostzlib-1.2.3]# make install**

**7、编译安装libpng**

**[root@localhostlinux]# tar -zxvf libpng-1.2.31.tar.gz**

**[root@localhostlinux]# cd libpng-1.2.31**

**[root@localhostlibpng-1.2.31]# ./configure --prefix=/usr/local/libpng \**

**>--enable-shared （建立共享库使用的GNU的libtool）**

**[root@localhostlibpng-1.2.31]# make**

**[root@localhostlibpng-1.2.31]# make install**

**8、编译安装jpeg**

**[root@localhostlinux]# tar -zxvf jpegsrc.v6b.tar.gz**

**[root@localhostlinux]# cd jpeg-6b**

**[root@localhostjpeg-6b]# mkdir /usr/local/jpeg                    (创建jpeg软件的安装目录)**

**[root@localhostjpeg-6b]# mkdir /usr/local/jpeg/bin            （创建存放命令的目录）**

**[root@localhostjpeg-6b]# mkdir /usr/local/jpeg/lib             （创建jpeg库文件所在目录）**

**[root@localhostjpeg-6b]# mkdir /usr/local/jpeg/include      （创建存放头文件目录）**

**[root@localhostjpeg-6b]# mkdir -p /usr/local/jpeg/man/man1  （建立存放手册的目录）**

**[root@localhostjpeg-6b]# ./configure --prefix=/usr/local/jpeg \**

**>--enable-shared \    （建立共享库使用的GUN的libtool）**

**>--enable-static        （建立静态库使用的GUN的libtool）**

**[root@localhostjpeg-6b]# make**

**[root@localhostjpeg-6b]# make install**

**执行make时如果出现如下错误：**

**./libtool --mode=compile gcc-O2  -I. -c ./jcapimin.c**

**make: ./libtool: Command notfound**

**make: \*\*\* [jcapimin.lo] Error 127**

**解决方法：**

**默认已安装libtool及libtool-ltdl-devel（如需帮助请看过程2）**

**[root@localhostjpeg-6b]# find / -name config.sub**

**/usr/share/libtool/config/config.sub**

**[root@localhostjpeg-6b]# find / -name config.guess**

**/usr/share/libtool/config/config.guess**

**[root@localhostjpeg-6b]# cp -vRp /usr/share/libtool/config/config.sub .**

**[root@localhostjpeg-6b]# cp -vRp /usr/share/libtool/config/config.guess .**

**也就是把libtool里面的两个配置文件拿来覆盖掉jpeg-6b目录下的对应文件**

**make clean 再重新configure**

**9、编译安装freetype**

**[root@localhostlinux]# tar -zxvf freetype-2.3.5.tar.gz**

**[root@localhostlinux]# cd freetype-2.3.5**

**[root@localhostfreetype-2.3.5]# ./configure --prefix=/usr/local/freetype \**

**>--enable-shared    （建立共享库使用的GUN的libtool）**

**[root@localhostfreetype-2.3.5]# make**

**[root@localhostfreetype-2.3.5]# make install**

**10、编译安装autoconf**

**[root@localhostlinux]# tar -zxvf autoconf-2.61.tar.gz**

**[root@localhostlinux]# cd autoconf-2.61**

**[root@localhostautoconf-2.61]# ./configure**

**[root@localhostautoconf-2.61]# make**

**[root@localhostautoconf-2.61]# make install**

**11、编译安装GD**

**[root@localhostlinux]# tar -zxvf gd-2.0.35.tar.gz**

**[root@localhostlinux]# cd gd-2.0.35**

**[root@localhostgd-2.0.35]# ./configure --prefix=/usr/local/gd \**

**>--with-zlib=/usr/local/zlib/ \      （指定zlib库文件的位置）**

**>--with-jpeg=/usr/local/jpeg/ \    （指定jpeg库文件的位置）**

**>--with-png=/usr/local/libpng/ \  （指定png库文件的位置）**

**>--with-freetype=/usr/local/freetype/     （指定freetype字体库的位置）**

**[root@localhostgd-2.0.35]# make**

**[root@localhostgd-2.0.35]# make install**

**执行make时如果出现如下错误：**

**make[2]: \*\*\* [gd\_png.lo] Error 1**

**make[2]: Leaving directory`/usr/src/linux/gd-2.0.35'**

**make[1]: \*\*\* [all-recursive]Error 1**

**make[1]: Leaving directory`/usr/src/linux/gd-2.0.35'**

**make: \*\*\* [all]  Error 2**

**解决方法：**

**[root@localhostgd-2.0.35]# find / -name gd\_png.c**

**/usr/src/linux/gd-2.0.35/gd\_png.c**

**[root@localhostgd-2.0.35]# find / -name png.h**

**/usr/local/libpng/include/png.h**

**[root@localhostgd-2.0.35]# vi /usr/src/linux/gd-2.0.35/gd\_png.c**

**将#include "png.h"**

**改为#include "/usr/local/libpng/include/png.h"**

**12、编译安装apache**

**[root@localhostlinux]# tar -zxvf httpd-2.2.9.tar.gz**

**[root@localhostlinux]# cd httpd-2.2.9**

**[root@localhosthttpd-2.2.9]# ./configure --prefix=/usr/local/apache \**

**> --enable-so \       （以动态共享对象编译）**

**>--enable-rewrite  （基于规则的URL操控）**

**[root@localhosthttpd-2.2.9]# make**

**[root@localhosthttpd-2.2.9]# make install**

**将apache加入开机启动↓**

**[root@localhosthttpd-2.2.9]# cp -vRp /usr/local/apache/bin/apachectl /etc/init.d/httpd**

**[root@localhosthttpd-2.2.9]# chmod +x /etc/init.d/httpd**

**添加apache服务↓**

**[root@localhosthttpd-2.2.9]# chkconfig --add httpd**

**[root@localhosthttpd-2.2.9]# chkconfig --level 2345 httpd on**

**[root@localhosthttpd-2.2.9]# service httpd start**

**启动服务时,如果出现如下错误：**

**httpd: Could not reliablydetermine the server's fully qualified domain name, using localhost.localdomainfor ServerName**

**解决方法：**

**[root@localhosthttpd-2.2.9]# vi /usr/local/apache/conf/httpd.conf**

**添加上：ServerName localhost:80**

**执行chkconfig时,如果出现如下错误：**

**service httpd does not supportchkconfig**

**解决方法：**

**[root@localhosthttpd-2.2.9]# vi /etc/rc.d/init.d/httpd**

**在文件第二行加入**

**#chkconfig:2345 10 90**

**#description:Activates/DeactivatesApache Web Server**

**保存后再执行chkconfig**

**13、编译安装mysql（最新版本都需要cmake编译安装)**

**编译安装 cmake**

**[root@localhostlinux]# tar -zxvf cmake-2.8.7.tar.gz**

**[root@localhostlinux]# cd cmake-2.8.7**

**[root@localhostcmake-2.8.7]# ./bootstrap**

**[root@localhostcmake-2.8.7]# gmake**

**[root@localhostcmake-2.8.7]# gmake install**

**编译安装 MySQL5.5.20**

**[root@localhostcmake-2.8.7]# groupadd mysql**

**[root@localhostcmake-2.8.7]# useradd -g mysql mysql**

**[root@localhostlinux]# tar -zxvf mysql-5.5.15.tar.gz**

**[root@localhostlinux]# cd mysql-5.5.15**

**[root@localhostmysql-5.5.15]#**

**cmake-DCMAKE\_INSTALL\_PREFIX=/usr/local/mysql \           （安装根目录）**

**> -DMYSQL\_UNIX\_ADDR=/usr/local/mysql/data/mysql.sock \   （UNIX socket文件）**

**>-DDEFAULT\_CHARSET=utf8 \     （默认字符集）**

**>-DDEFAULT\_COLLATION=utf8\_general\_ci \  （默认编码）**

**>-DWITH\_EXTRA\_CHARSETS=utf8,gbk \         （额外的编码）**

**>-DWITH\_PERFSCHEMA\_STORAGE\_ENGINE=1 \（启用PERFSCHEMA引擎支持）**

**>-DWITH\_FEDERATED\_STORAGE\_ENGINE=1 \   （启用FEDERATED引擎支持）**

**> -DWITH\_PARTITION\_STORAGE\_ENGINE=1\     （启用PARTITION引擎支持）**

**>-DWITH\_ARCHIVE\_STORAGE\_ENGINE=1 \         （启用ARCHIVE引擎支持）**

**>-DWITH\_READLINE=1 \（使用readline功能）**

**>-DMYSQL\_DATADIR=/usr/local/mysql/data \  （数据库数据目录）**

**>-DMYSQL\_TCP\_PORT=3306                              （TCP/IP端口）**

**[root@localhostmysql-5.5.15]# make**

**[root@localhostmysql-5.5.15]# make install**

**[root@localhostmysql-5.5.15]# cp -vRp /usr/local/mysql/support-files/my-medium.cnf /etc/my.cnf**

**修改配置文件↓**

**[root@localhostmysql-5.5.15]# vi /etc/my.cnf**

**basedir=/usr/local/mysql**

**datadir=/usr/local/mysql/data**

**log-error=/usr/local/mysql/data/error.log**

**pid-file=/usr/local/mysql/data/mysql.pid**

**初始化数据库文件↓**

**[root@localhostmysql-5.5.15]# /usr/local/mysql/scripts/mysql\_install\_db \**

**>--defaults-flie=/etc/my.cnf \**

**> --basedir=/usr/local/mysql/\**

**>--datadir=/usr/local/mysql/data \**

**>--pid-file=/usr/local/mysql/data/mysql.pid \**

**> --user=mysql**

**权限设置↓**

**[root@localhostmysql]# chown -R root .**

**[root@localhostmysql]# chown -R mysql data**

**[root@localhostmysql]# chgrp -R mysql .**

**将mysql加入开机启动↓**

**[root@localhostmysql]# cp -vRp support-files/mysql.server /etc/init.d/mysqld**

**[root@localhostmysql]# chmod +x /etc/init.d/mysqld**

**添加mysql服务↓**

**[root@localhostmysql]# chkconfig --add mysqld**

**[root@localhostmysql]# chkconfig --level 345 mysqld on**

**[root@localhostmysql]# service mysqld start**

**配置mysql↓**

**[root@localhostmysql]# bin/mysql**

**mysql> deletefrom mysql.user where Host!='localhost'; （只留允许本机登录的帐号）**

**mysql> flushprivileges;  （刷新授权表）**

**mysql> setpassword for 'root'@'localhost'=password('123456');  （设置用户密码）**

**mysql> exit**

**[root@localhostmysql]# bin/mysql -h localhost -u root -p123456 （登录mysql）**

**14、编译安装php**

**[root@localhostlinux]# tar -zxvf php-5.3.19.tar.gz**

**[root@localhostlinux]# cd php-5.3.19**

**[root@localhostphp-5.3.19]# ./configure --prefix=/usr/local/php \**

**>--with-apxs2=/usr/local/apache/bin/apxs \**

**>--with-mysql=/usr/local/mysql/ \**

**>--with-libxml-dir=/usr/local/libxml2/ \**

**>--with-png-dir=/usr/local/libpng/ \**

**>--with-jpeg-dir=/usr/local/jpeg/ \**

**>--with-freetype-dir=/usr/local/freetype/ \**

**> --with-gd=/usr/local/gd/\**

**>--with-mcrypt=/usr/local/libmcrypt/ \**

**>--with-mysqli=/usr/local/mysql/bin/mysql\_config \**

**> --enable-soap\                  （变量激活SOAP和web services支持）**

**>--enable-mbstring=all \    （使多字节字符串支持）**

**>--enable-sockets                （变量激活socket通讯特性）**

**[root@localhostphp-5.3.19]# make**

**[root@localhostphp-5.3.19]# make install**

**[root@localhostphp-5.3.19]# cp -vRp php.ini-development /etc/php.ini**

**[root@localhostphp-5.3.19]# vi /usr/local/apache/conf/httpd.conf**

**添加上：**

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

**[root@localhostphp-5.3.19]# service httpd stop**

**[root@localhostphp-5.3.19]# service httpd start**

**[root@localhostphp-5.3.19]# vi /usr/local/apache/htdocs/phpinfo.php**

**添加内容为：**

**<?php**

**phpinfo();**

**?>**

**打开浏览器进行访问,如果出现PHP版本界面,及安装成功。**