

# LAMP 环境搭建

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### 一. 准备工作

Linux 系统准备： 恢复快照      设置 IP      关闭 selinux

配置 yum 源

...

#### 1) 编辑 yum 配置文件：

```
mount /dev/sr0 /media
vim /etc/yum.repos.d/CentOS-Media.repo
[c6-media]
name=CentOS-$releasever - Media
baseurl=file:///media/ * 修改为光盘挂载点
gpgcheck=0
enabled=1 * 改为1 意为启用
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-6
```

#### 2) 剪切/etc/yum.repos.d/CentOS-Base.repo

```
mv /etc/yum.repos.d/CentOS-Base.repo /etc/yum.repos.d/CentOS-Base.repo.bak
```

#### 3) 依次安装 gcc、gcc-c++

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

...

关闭防火墙

...

```
setup
iptables -F
iptables -X
iptables -Z
...
```

复制源码包 解压缩

```
mv lamp /lamp
```

```
vim tar.sh
```

```
```
```

```
cd /lamp
/bin/ls *.tar.gz > ls.list
for TAR in `cat ls.list`rm
do
    /bin/tar -zxf $TAR
done
/bin/rm ls.list
```
```

```
chmod 777 tar.sh
```

```
./tar.sh
```

查看磁盘空间

```
df -h
```

二. 安装辅助软件包

```
```
```

安装 libxml2

```
```
```

```
```
```

```
yum -y install python-devel          必须安装
```

```
cd /lamp/libxml2-2.9.1
./configure --prefix=/usr/local/libxml2/
make
make install
```
```

```
```
```

安装 libmccrypt

```
```
```

```
```
```

```
cd /lamp/libmccrypt-2.5.8
./configure --prefix=/usr/local/libmccrypt/
make
make install
```
```

```
```
```

安装 libltdl

```

```

```
cd /lamp/libmccrypt-2.5.8/libltdl
./configure --enable-ltdl-install
make
make install
```

```

```

安装 mhash

```

```

```
cd /lamp/mhash-0.9.9.9
./configure
make
make install
```

```

```

安装 mccrypt

```

```

```
cd /lamp/mccrypt-2.6.8
LD_LIBRARY_PATH=/usr/local/libmccrypt/lib:/usr/local/lib \
./configure --with-libmccrypt-prefix=/usr/local/libmccrypt
make
make install
```

```

```

安装 zlib

```

```

```
cd /lamp/zlib-1.2.3
./configure
make
make install
```

```

```

安装 libpng

```

```

```
cd /lamp/libpng-1.2.31
```

```
./configure --prefix=/usr/local/libpng
make
make install
```
```

```

安装 jpeg6

```

```

```
mkdir /usr/local/jpeg6
mkdir /usr/local/jpeg6/bin
mkdir /usr/local/jpeg6/lib
mkdir /usr/local/jpeg6/include
mkdir -p /usr/local/jpeg6/man/man1
```

```
cd /lamp/jpeg-6b
./configure --prefix=/usr/local/jpeg6/ --enable-shared --enable-static
make
make install
```
```

```

安装 freetype

```

```

```
cd /lamp/freetype-2.3.5
./configure --prefix=/usr/local/freetype/
make
make install
```
```

### 三. Apache 服务安装

```

```
cp -r /lamp/apr-1.4.6 /lamp/httpd-2.4.7/src/lib/apr
cp -r /lamp/apr-util-1.4.1 /lamp/httpd-2.4.7/src/lib/apr-util
```

```
cd /lamp/pcre-8.34
./configure && make && make install
```

```
cd /lamp/httpd-2.4.7
./configure --prefix=/usr/local/apache2/ --sysconfdir=/usr/local/apache2/etc/
--with-included-apr --enable-so --enable-deflate=shared --enable-expire=shared
--enable-rewrite=shared
make
make install
```

启动服务

```
/usr/local/apache2/bin/apachectl start
```

```
ps aux | grep httpd
netstat -tlun | grep :80
```

测试 打开浏览器 192.168.2.251

```
设置开机自启动
vim /etc/rc.local
/usr/local/apache2/bin/apachectl start
```
```

#### 四. MySQL 服务安装

```

##### 安装服务

```
yum -y install ncurses-devel
yum -y install cmake
yum -y install bison
```

```
groupadd mysql
useradd -g mysql mysql
```

```
cd /lamp/mysql-5.5.48
cmake -DCMAKE_INSTALL_PREFIX=/usr/local/mysql -DMYSQL_UNIX_ADDR=/tmp/mysql.sock
-DDEXTRA_CHARSETS=all -DDEFAULT_CHARSET=utf8 -DDEFAULT_COLLATION=utf8_general_ci
-DWITH_MYISAM_STORAGE_ENGINE=1 -DWITH_INNOBASE_STORAGE_ENGINE=1
-DWITH_MEMORY_STORAGE_ENGINE=1 -DWITH_READLINE=1 -DENABLED_LOCAL_INFILE=1
-DMYSQL_USER=mysql -DMYSQL_TCP_PORT=3306
make && make install
```

---

##### 配置服务

```
cd /usr/local/mysql/
chown -R mysql .
chgrp -R mysql .
#修改 mysql 目录权限
/usr/local/mysql/scripts/mysql_install_db --user=mysql
#创建数据库授权表，初始化数据库
chown -R root .
chown -R mysql data
#修改 mysql 目录权限
```

```
cp support-files/my-medium.cnf /etc/my.cnf
#复制 mysql 配置文件
```

##### 二次授权

```
/usr/local/mysql/scripts/mysql_install_db --user=mysql
```

---

##### 启动 MySQL 服务:

1. 用原本源代码的方式去使用和启动 mysql

```
/usr/local/mysql/bin/mysqld_safe --user=mysql &
2. 重启以后还要生效:
vim /etc/rc.local
/usr/local/mysql/bin/mysqld_safe --user=mysql &
3. 设定 mysql 密码
/usr/local/mysql/bin/mysqladmin -uroot password 123456
    清空历史命令  history -c
```

```
/usr/local/mysql/bin/mysql -u root -p
mysql> \s    查看配置
mysql> quit  退出
```

...

## 五. 安装 PHP

...

```
yum -y install "libtool*"
```

```
cd /lamp/php-7.0.7
./configure      --prefix=/usr/local/php/      --with-config-file-path=/usr/local/php/etc/
--with-apxs2=/usr/local/apache2/bin/apxs      --with-libxml-dir=/usr/local/libxml2/
--with-jpeg-dir=/usr/local/jpeg6/              --with-png-dir=/usr/local/libpng/
--with-freetype-dir=/usr/local/freetype/        --with-mcrypt=/usr/local/libmcrypt/
--with-mysqli=/usr/local/mysql/bin/mysql_config --enable-soap      --enable-mbstring=all
--enable-sockets --with-pdo-mysql=/usr/local/mysql --with-gd      --without-pear
```

```
make    && make install
```

```
-----
mkdir /usr/local/php/etc/
cp /lamp/php-7.0.7/php.ini-production /usr/local/php/etc/php.ini
```

```
vim /usr/local/apache2/etc/httpd.conf
AddType application/x-httpd-php .php .phtml
AddType application/x-httpd-php-source .phps
```

```
    重启 Apache 服务: /usr/local/apache2/bin/apachectl stop
                      /usr/local/apache2/bin/apachectl start
```

```
vim /usr/local/apache2/htdocs/test.php
    <?php
        phpinfo();
    ?>
```

```
    测试   浏览器   192.168.2.251/test.php
```

...

...

添加环境变量

```

vim /etc/profile

export PATH="/usr/local/php/bin:$PATH"
export PATH="/usr/local/mysql/bin:$PATH"
export PATH="/usr/local/apache2/bin:$PATH"

source /etc/profile

php -v
mysql -u root -p
apachectl -v
...

```

## 六. 收尾工作

### 扩展模块后续安装

```

...

安装 openssl

yum -y install openssl-devel    必须安装
cd /lamp/php-7.0.7/ext/openssl
mv config0.m4 config.m4          否则报错：找不到 config.m4
/usr/local/php/bin/phpize
./configure --with-openssl --with-php-config=/usr/local/php/bin/php-config
make
make install

vim /usr/local/php/etc/php.ini
extension_dir = "/usr/local/php/lib/php/extensions/no-debug-zts-20151012/"
#打开注释，并修改
extension="openssl.so";

apachectl stop
apachectl start
...

...

安装 phpMyAdmin

cp -r /lamp/phpMyAdmin-4.1.4-all-languages /usr/local/apache2/htdocs/phpmyadmin
cd /usr/local/apache2/htdocs/phpmyadmin
cp config.sample.inc.php config.inc.php
vim config.inc.php
//$cfg['Servers'][$i]['auth_type'] = 'cookie';
$cfg['Servers'][$i]['auth_type'] = 'http';

测试 浏览器 192.168.2.251/phpmyadmin/index.php
root
123456
...

```

作业

至少安装成功一次 LAMP 环境          最好两次以上！

安装 memcache 服务