



链滴

CentOS 7 源码编译安装 PHP 7.2.11(亲测)

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原文链接: <https://ld246.com/article/1542451656739>

来源网站: [链滴](#)

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1.介绍:

久闻php7的速度以及性能那可是比php5系列的任何一版本都要快，具体性能有多好，建议还是先尝下再说。如果你是升级或新安装，那你首先需要考虑php7和程序是否存在兼容性，如果程序是基于php5开发的，那么就需要考虑php7是否适合你当前的生产环境，今天我就实操并安装用于生产中。

2.安装扩展包并更新系统内核:

```
yum install epel-release -y
yum update
```

3.安装php依赖组件（包含Nginx依赖）：

```
yum -y install wget vim pcre pcre-devel openssl openssl-devel libicu-devel gcc gcc-c++ auto
onf libjpeg libjpeg-devel libpng libpng-devel freetype freetype-devel libxml2 libxml2-devel zli
b zlib-devel glibc glibc-devel glib2 glib2-devel ncurses ncurses-devel curl curl-devel krb5-dev
l libidn libidn-devel openldap openldap-devel nss_ldap jemalloc-devel cmake boost-devel bis
n automake libevent libevent-devel gd gd-devel libtool libmcrypt libmcrypt-devel mcrypt mh
sh libxslt libxslt-devel readline readline-devel gmp gmp-devel libcurl libcurl-devel openjpeg-
evel
```

先安装php依赖包，否则在编译安装php7的过程当中会出现各种报错，完成后即可进入下一个环节。

4.创建用户和组，并下载php安装包解压:

假设安装包存放目录是 ~/soft/

```
cd ~/soft/
groupadd www
useradd -g www www
wget http://am1.php.net/distributions/php-7.2.11.tar.gz
tar xvf php-7.2.11.tar.gz
cd php-7.2.11
```

5.设置变量并开始源码编译:

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

./configure --prefix=/usr/local/php \
--with-config-file-path=/usr/local/php/etc \
--enable-fpm \
--with-fpm-user=www \
--with-fpm-group=www \
--enable-mysqlnd \
--with-mysql=mysqlnd \
--with-pdo-mysql=mysqlnd \
--enable-mysqlnd-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-mcrypt \  
--with-libmbfl \  
--enable-ftp \  
--with-gd \  
--enable-gd-jis-conv \  
--enable-gd-native-ttf \  
--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 \  

```

注意:

- 1.若无报错执行下一步安装，如果编译过程中出现错误，根据报错安装依赖包，通常不会出现这种问题。
2. `--enable-gd-jis-conv` 此参数会导致Zabbix中文字符乱码，建议取消。

6.开始安装:

```
$ make -j 4 && make install
```

7.完成安装后配置php.ini文件:

```
cp php.ini-development /usr/local/php/etc/php.ini  
cp /usr/local/php/etc/php-fpm.conf.default /usr/local/php/etc/php-fpm.conf  
cp /usr/local/php/etc/php-fpm.d/www.conf.default /usr/local/php/etc/php-fpm.d/www.conf
```

8.修改 php.ini 相关参数:

```
vim /usr/local/php/etc/php.ini
```

```
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 = "/usr/local/php/lib/php/extensions/no-debug-zts-20160303/ldap.so"
```

9.设置 OPcache 缓存:

```
[opcache]
zend_extension=/usr/local/php/lib/php/extensions/no-debug-zts-20160303/opcache.so
opcache.memory_consumption=128
opcache.interned_strings_buffer=8
opcache.max_accelerated_files=4000
opcache.revalidate_freq=60
opcache.fast_shutdown=1
opcache.enable_cli=1
```

10.设置php安全函数:

```
vim /usr/local/php/etc/php.ini
```

默认值:

```
disable_functions =
```

修改为:

```
disable_functions = passthru,exec,system,chroot,scandir,chgrp,chown,shell_exec,proc_open,pr
c_get_status,ini_alter,ini_restore,dl,openlog,syslog,readlink,symlink,popepassthru,stre
m_socket_server,escapeshellcmd,dll,popen,disk_free_space,checkdnsrr,checkdnsrr,getservbyn
me,getservbyport,disk_total_space,posix_ctermid,posix_get_last_error,posix_getcwd, posix_get
gid,posix_geteuid,posix_getgid, posix_getgrgid,posix_getgrnam,posix_getgroups,posix_getlog
n,posix_getpgid,posix_getpgrp,posix_getpid, posix_getppid,posix_getpwnam,posix_getpwuid,
posix_getrlimit, posix_getsid,posix_getuid,posix_isatty, posix_kill,posix_mkfifo,posix_setegid,po
ix_seteuid,posix_setgid, posix_setpgid,posix_setsid,posix_setuid,posix_strerror,posix_times,posit
_ttyname,posix_uname
```

或通配:

```
disable_functions = passthru,exec,system,chroot,chgrp,chown,shell_exec,proc_open,proc_get_
tatus,popen,ini_alter,ini_restore,dl,openlog,syslog,readlink,symlink,popepassthru
```

11.配置www.conf

取消以下注释并修改优化其参数:

```
listen = /var/run/www/php-cgi.sock
listen.owner = www
listen.group = www
```

```
listen.mode = 0660
listen.allowed_clients = 127.0.0.1
pm = dynamic
listen.backlog = -1
pm.max_children = 180
pm.start_servers = 50
pm.min_spare_servers = 50
pm.max_spare_servers = 180
request_terminate_timeout = 120
request_slowlog_timeout = 50
slowlog = var/log/slow.log
```

12.创建php-cgi.sock存放目录

```
mkdir /var/run/www/
chown -R www:www /var/run/www
```

13.配置php-fpm.conf

取下以下注释并填写完整路径：

```
pid = /usr/local/php/var/run/php-fpm.pid
```

至此php7已经安装完成。

说明：禁用php函数，如果程序需要这些函数，可以取消禁止，新手建议忽略此步骤。

14.创建system系统单元文件php-fpm启动脚本：

```
vim /usr/lib/systemd/system/php-fpm.service
```

添加如下变量内容：

```
[Unit]
Description=The PHP FastCGI Process Manager
After=syslog.target network.target

[Service]
Type=simple
PIDFile=/usr/local/php/var/run/php-fpm.pid
ExecStart=/usr/local/php/sbin/php-fpm --nodaemonize --fpm-config /usr/local/php/etc/php-fpm.conf
ExecReload=/bin/kill -USR2 $MAINPID

[Install]
WantedBy=multi-user.target
```

15.启动php-fpm服务并加入开机自启动：

```
systemctl enable php-fpm.service
systemctl restart php-fpm.service
```

PHP整个安装过程已经完成。如果你是按照本文安装未成功的，希望你能留言说明错误原因，我将无协助你配置。