

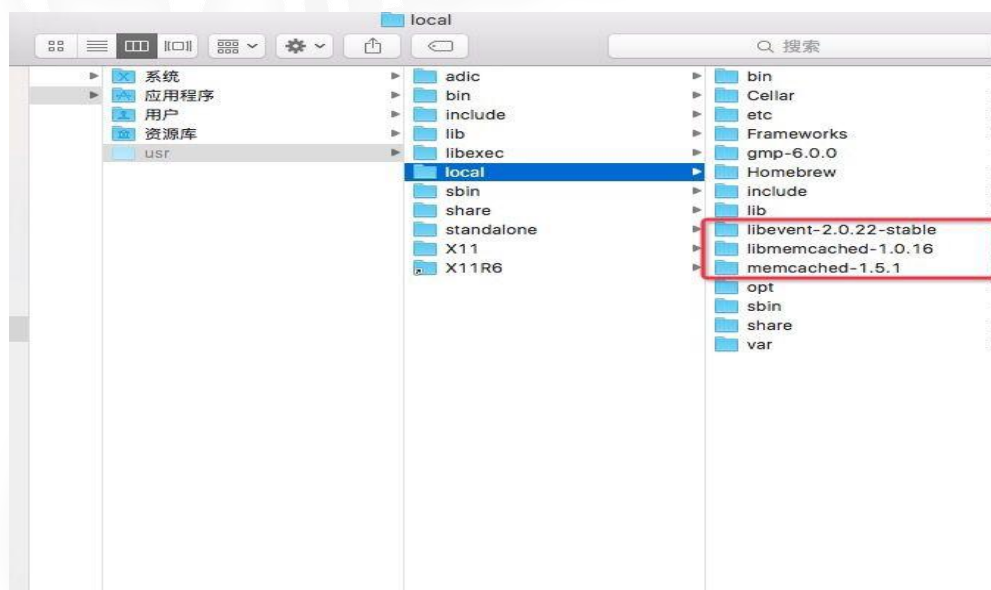
Memcached 安装教程

注：由于每个人的 mac 环境不同，出现的配置要灵活运用，下面教辅尽供参考，安装过程中出现其他问题另行处理

一、安装 libevent

1、下载安装包

注：下面的演示中都为手动下载安装包并拷贝到/usr/local 下的。



1、进入 libevent-2.0.22-stable

```
[localhost:local Imooc$ ls  
libevent-2.0.22-stable  
[localhost:local Imooc$ ls  
libevent-2.0.22-stable memcached-1.5.1  
[localhost:local Imooc$ cd libevent-2.0.22-stable  
localhost:libevent-2.0.22-stable Imooc$
```

2、配置安装目录

```
./configure --prefix=/usr/local/libevent-2.0.22-stable
```

```

libevent-2.0.22-stable — -bash — 80x24
libevent-2.0.22-stable
localhost:local Imooc$ ls
libevent-2.0.22-stable  memcached-1.5.1
localhost:local Imooc$ cd libevent-2.0.22-stable
localhost:libevent-2.0.22-stable Imooc$ ./configure --prefix=/usr/local/libevent-2.0.22-stable
checking for a BSD-compatible install... /usr/bin/install -c
checking whether build environment is sane... yes
checking for a thread-safe mkdir -p... ./install-sh -c -d
checking for gawk... no
checking for mawk... no
checking for nawk... no
checking for awk... awk
checking whether make sets $(MAKE)... yes
checking build system type... x86_64-apple-darwin15.5.0
checking host system type... x86_64-apple-darwin15.5.0
checking for gcc... gcc
checking whether the C compiler works... yes
checking for C compiler default output file name... a.out
checking for suffix of executables...
checking whether we are cross compiling... no
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes

```

注：安装过程中可能会出现如下图的问题

```

libevent-2.0.22-stable — -bash — 80x23
1 error generated.
make[2]: *** [bufferevent_openssl.lo] Error 1
make[1]: *** [all-recursive] Error 1
make: *** [all] Error 2
localhost:libevent-2.0.22-stable Imooc$ make install
/Applications/Xcode.app/Contents/Developer/usr/bin/make install-recursive
Making install in .
/bin/sh ./libtool --tag=CC --mode=compile gcc -DHAVE_CONFIG_H -I. -I./compat -I./include -I./include -g -O2 -Wall -fno-strict-aliasing -Wno-deprecated-declarations -D_THREAD_SAFE -MT bufferevent_openssl.lo -MD -MP -MF .deps/bufferevent_openssl.Tpo -c -o bufferevent_openssl.lo bufferevent_openssl.c
libtool: compile: gcc -DHAVE_CONFIG_H -I. -I./compat -I./include -I./include -g -O2 -Wall -fno-strict-aliasing -Wno-deprecated-declarations -D_THREAD_SAFE -MT bufferevent_openssl.lo -MD -MP -MF .deps/bufferevent_openssl.Tpo -c bufferevent_openssl.c -fno-common -DPIC -o .libs/bufferevent_openssl.o
bufferevent_openssl.c:60:10: fatal error: 'openssl/bio.h' file not found
#include <openssl/bio.h>
1 error generated.
make[2]: *** [bufferevent_openssl.lo] Error 1
make[1]: *** [install-recursive] Error 1
make: *** [install] Error 2

```

解决方法为：安装 xcode

xcode-select -install

注：（考虑每个人的带脑配置不同解决方法不同）

另一种方法为：（这个时候通过 whereis 找到 openssl 的目录，我的是 /usr/bin/openssl

如果没有找到 openssl 也许是你没有安装，可以用 brew install openssl 安装。

然后使用 brew link openssl 如果出错就加上 -force

brew link openssl --force

)

```
localhost:libevent-2.0.22-stable Imooc$ whereis openssl*
/usr/bin/openssl
localhost:libevent-2.0.22-stable Imooc$ xcode-select -install
xcode-select: error: invalid argument '-install'
Usage: xcode-select [options]

Print or change the path to the active developer directory. This directory
controls which tools are used for the Xcode command line tools (for example,
xcodebuild) as well as the BSD development commands (such as cc and make).

Options:
-h, --help                print this help message and exit
-p, --print-path          print the path of the active developer directory
-s <path>, --switch <path> set the path for the active developer directory
--install                 open a dialog for installation of the command line developer tools
-v, --version             print the xcode-select version
-r, --reset               reset to the default command line tools path
localhost:libevent-2.0.22-stable Imooc$ cd /usr/
localhost:usr Imooc$ ls
X11      adic      lib      local    share
X11R6    bin      libexec  sbin     standalone
localhost:usr Imooc$ xcode-select --install
xcode-select: note: install requested for command line developer tools
localhost:usr Imooc$ ls
X11      bin      libexec  share
```

11、然后 xcode-select -p 命令查找 xcode 安装所在目录；

cd /Applications/Xcode.app/Contents/Developer && find . -name
bio.h

并将 openssl 下内容复制到 libevent-2.0.22-stable 下


```
libevent-2.0.22-stable — -bash — 80x21
epoll.c      install-sh      whatsnew-2.0.txt
epoll_sub.c  iocp-internal.h  win32select.c
localhost:libevent-2.0.22-stable Imooc$ cp -R /usr/local/Cellar/openssl/1.0.2l/i
nclude/openssl /usr/local/libevent-2.0.22-stable
localhost:libevent-2.0.22-stable Imooc$ ls
ChangeLog    evbuffer-internal.h  ipv6-internal.h
Doxyfile     evdns.c              kqueue.c
LICENSE      evdns.h              kqueue.lo
Makefile     evdns.lo              kqueue.o
Makefile.am  evdns.o              lib
Makefile.in  event-internal.h     libevent.la
Makefile.nmake event.c               libevent.pc
README       event.h               libevent.pc.in
WIN32-Code   event.lo              libevent_core.la
aclocal.m4   event.o               libevent_extra.la
arc4random.c event_iocp.c           libevent_openssl.pc
autogen.sh   event_rpcgen.py       libevent_openssl.pc.in
buffer.c     event_tagging.c       libevent_pthreads.la
buffer.lo    event_tagging.lo      libevent_pthreads.pc
buffer.o     event_tagging.o       libevent_pthreads.pc.in
buffer_iocp.c evhttp.h              libtool
```

14、在进行编译

make

make install

```
libevent-2.0.22-stable — -bash — 80x21
conf_api.h  evp.h      ossl_typ.h  srtp.h      x509v3.h
localhost:openssl Imooc$ cd ..
localhost:libevent-2.0.22-stable Imooc$ make
/Applications/Xcode.app/Contents/Developer/usr/bin/make all-recursive
Making all in .
/bin/sh ./libtool --tag=CC --mode=compile gcc -DHAVE_CONFIG_H -I. -I./compat
-I./include -I./include -g -O2 -Wall -fno-strict-aliasing -Wno-deprecated-dec
larations -D_THREAD_SAFE -MT bufferevent_openssl.lo -MD -MP -MF .deps/buffereve
nt_openssl.Tpo -c -o bufferevent_openssl.lo bufferevent_openssl.c
libtool: compile: gcc -DHAVE_CONFIG_H -I. -I./compat -I./include -I./include -g
-O2 -Wall -fno-strict-aliasing -Wno-deprecated-declarations -D_THREAD_SAFE -MT
bufferevent_openssl.lo -MD -MP -MF .deps/bufferevent_openssl.Tpo -c bufferevent_
openssl.c -fno-common -DPIC -o .libs/bufferevent_openssl.o
libtool: compile: gcc -DHAVE_CONFIG_H -I. -I./compat -I./include -I./include -g
-O2 -Wall -fno-strict-aliasing -Wno-deprecated-declarations -D_THREAD_SAFE -MT
bufferevent_openssl.lo -MD -MP -MF .deps/bufferevent_openssl.Tpo -c bufferevent_
openssl.c -o bufferevent_openssl.o >/dev/null 2>&1
mv -f .deps/bufferevent_openssl.Tpo .deps/bufferevent_openssl.Plo
/bin/sh ./libtool --tag=CC --mode=link gcc -g -O2 -Wall -fno-strict-aliasing
-Wno-deprecated-declarations -D_THREAD_SAFE -version-info 6:9:1 -release 2.0
-o libevent_openssl.la -rpath /usr/local/libevent-2.0.22-stable/lib bufferevent_
```

15、然后利用 ps -a 查看进程

```
localhost:libevent-2.0.22-stable Imooc$ ps -a
PID TTY      TIME CMD
 976 ttys000    0:00.04 login -pf Imooc
 977 ttys000    0:00.77 -bash
12719 ttys000    0:00.00 ps -a
localhost:libevent-2.0.22-stable Imooc$
```

16、

17、

```
libevent-2.0.22-stable — -bash — 80x24
/bin/sh ../libtool --tag=CC --mode=link gcc -g -O2 -Wall -fno-strict-aliasing
-Wno-deprecated-declarations -D_THREAD_SAFE -D_THREAD_SAFE -o regress regres
s-regress.o regress-regress_buffer.o regress-regress_http.o regress-regress_dns.
o regress-regress_testutils.o regress-regress_rpc.o regress-regress_gen.o regres
s-regress_et.o regress-regress_bufferevent.o regress-regress_listener.o regress-
regress_util.o regress-tinytest.o regress-regress_main.o regress-regress_minheap
.o regress-regress_thread.o regress-regress_zlib.o regress-regress_ssl.o ../li
bevent.la ../libevent_pthreads.la -lz ../libevent_openssl.la -lssl -lcrypto
libtool: link: gcc -g -O2 -Wall -fno-strict-aliasing -Wno-deprecated-declaration
s -D_THREAD_SAFE -D_THREAD_SAFE -o .libs/regress regress-regress.o regress-regre
ss_buffer.o regress-regress_http.o regress-regress_dns.o regress-regress_testuti
ls.o regress-regress_rpc.o regress-regress_gen.o regress-regress_et.o regress-re
gress_bufferevent.o regress-regress_listener.o regress-regress_util.o regress-ti
nytest.o regress-regress_main.o regress-regress_minheap.o regress-regress_thread
.o regress-regress_zlib.o regress-regress_ssl.o ../.libs/libevent.dylib ../.lib
s/libevent_pthreads.dylib -lz ../.libs/libevent_openssl.dylib -lssl -lcrypto
make[4]: Nothing to be done for `install-exec-am'.
make[4]: Nothing to be done for `install-data-am'.
localhost:libevent-2.0.22-stable Imooc$ ps -a
  PID TTY          TIME CMD
 16450 ttys000    0:00.05 login -pf Imooc
 16451 ttys000    0:00.04 -bash
 23471 ttys000    0:00.00 ps -a
localhost:libevent-2.0.22-stable Imooc$
```

19、安装 memcached

cd memcached

./configure --prefix=/usr/local/memcached-1.5.1

--with-libevent=/usr/local/libevent-2.0.22


```

memcached-1.5.1 — -bash — 80x24
.o regress-regress_zlib.o regress-regress_ssl.o ../.libs/libevent.dylib ../.lib
s/libevent_pthreads.dylib -lz ../.libs/libevent_openssl.dylib -lssl -lcrypto
make[4]: Nothing to be done for `install-exec-am'.
make[4]: Nothing to be done for `install-data-am'.
[localhost:libevent-2.0.22-stable Imooc$ ps -a
  PID TTY          TIME CMD
 16450 ttys000    0:00.05 login -pf Imooc
 16451 ttys000    0:00.04 -bash
 23471 ttys000    0:00.00 ps -a
[localhost:libevent-2.0.22-stable Imooc$ cd
[localhost:~ Imooc$ cd /usr/local
[localhost:local Imooc$ ls
Cellar                                include                                sbin
Frameworks                          lib                                    share
Homebrew                            libevent-2.0.22-stable               var
bin                                  memcached-1.5.1
etc                                  opt
[localhost:local Imooc$ cd memcached-1.5.1
[localhost:memcached-1.5.1 Imooc$ ./configure --prefix=/usr/local/memcached-1.5.1
--with-libevent=/usr/local/libevent-2.0.22-stable
checking build system type... x86_64-apple-darwin15.5.0
checking host system type... x86_64-apple-darwin15.5.0
checking for a BSD-compatible install... /usr/bin/install -c
checking whether build environment is sane... yes

```

20、进行编译安装

```

memcached-1.5.1 — -bash — 80x24
mv -f .deps/util.Tpo .deps/util.Po
gcc -DHAVE_CONFIG_H -I. -I/usr/local/libevent-2.0.22-stable/include -g -O2 -
Wall -Werror -pedantic -Wmissing-prototypes -Wmissing-declarations -Wredundant-d
ecls -MT cache.o -MD -MP -MF .deps/cache.Tpo -c -o cache.o cache.c
mv -f .deps/cache.Tpo .deps/cache.Po
gcc -g -O2 -Wall -Werror -pedantic -Wmissing-prototypes -Wmissing-declarations
-Wredundant-decls -L/usr/local/libevent-2.0.22-stable/lib -Wl,-rpath,/usr/loca
l/libevent-2.0.22-stable/lib -o testapp testapp.o util.o cache.o -levent
gcc -DHAVE_CONFIG_H -I. -I/usr/local/libevent-2.0.22-stable/include -g -O2 -
Wall -Werror -pedantic -Wmissing-prototypes -Wmissing-declarations -Wredundant-d
ecls -MT timedrun.o -MD -MP -MF .deps/timedrun.Tpo -c -o timedrun.o timedrun.c
mv -f .deps/timedrun.Tpo .deps/timedrun.Po
gcc -g -O2 -Wall -Werror -pedantic -Wmissing-prototypes -Wmissing-declarations
-Wredundant-decls -L/usr/local/libevent-2.0.22-stable/lib -Wl,-rpath,/usr/loca
l/libevent-2.0.22-stable/lib -o timedrun timedrun.o -levent
[localhost:memcached-1.5.1 Imooc$ make install
/Applications/Xcode.app/Contents/Developer/usr/bin/make install-recursive
Making install in doc
/Applications/Xcode.app/Contents/Developer/usr/bin/make install-am
make[4]: Nothing to be done for `install-exec-am'.
../install-sh -c -d '/usr/local/memcached-1.5.1/share/man/man1'
/usr/bin/install -c -m 644 memcached.1 '/usr/local/memcached-1.5.1/share/man/ma
n1'
./install-sh -c -d '/usr/local/memcached-1.5.1/bin'

```

22、安装 memcached 扩展

查找有没有 memcached

```

[localhost:~ Imooc$ brew search memcache
==> Searching local taps...
libmemcached      memcache-top      memcached          memcacheq
==> Searching taps on GitHub...
homebrew/php/php53-memcache      homebrew/php/php56-memcache
homebrew/php/php54-memcache      homebrew/php/php70-memcache
homebrew/php/php55-memcache
==> Searching blacklisted, migrated and deleted formulae...
localhost:~ Imooc$

```

并安装服务

```

[localhost:memcached-1.5.1 Imooc$ cd
localhost:~ Imooc$ brew search memcache
==> Searching local taps...
libmemcached      memcache-top      memcached          memcacheq
==> Searching taps on GitHub...
homebrew/php/php53-memcache      homebrew/php/php56-memcache
homebrew/php/php54-memcache      homebrew/php/php70-memcache
homebrew/php/php55-memcache
==> Searching blacklisted, migrated and deleted formulae...
localhost:~ Imooc$ brew install memcached
Updating Homebrew...
==> Auto-updated Homebrew!
Updated 1 tap (homebrew/core).
==> Updated Formulae
pango                                pdf2htmlx
==> Deleted Formulae
poppler@0.57

==> Installing dependencies for memcached: libevent
==> Installing memcached dependency: libevent
==> Downloading https://homebrew.bintray.com/bottles/libevent-2.1.8.el_capitan.b
##### 100.0%
==> Pouring libevent-2.1.8.el_capitan.bottle.tar.gz
🍺 /usr/local/Cellar/libevent/2.1.8: 847 files, 2.2MB
==> Installing memcached
==> Downloading https://homebrew.bintray.com/bottles/memcached-1.5.0.el_capitan.
##### 100.0%
==> Pouring memcached-1.5.0.el_capitan.bottle.tar.gz
==> Caveats
To have launchd start memcached now and restart at login:
  brew services start memcached
Or, if you don't want/need a background service you can just run:
  /usr/local/opt/memcached/bin/memcached
==> Summary
🍺 /usr/local/Cellar/memcached/1.5.0: 11 files, 198KB
localhost:~ Imooc$

```

注：由于 gcc 等版本的问题会出现下图的问题


```
libmemcached-1.0.16 — -bash — 80x45
mkdir: tmp_chroot/var/log: File exists
mkdir: tmp_chroot/var/tmp: File exists
mkdir: tmp_chroot/var/tmp: File exists
mkdir: tmp_chroot/var/tmp: File exists
mkdir: tmp_chroot/var/tmp: File exists
mkdir: tmp_chroot/var/run: File exists
mkdir: tmp_chroot/var/run: File exists
mkdir: tmp_chroot/var/run: File exists
mkdir: tmp_chroot/var/run: File exists
mkdir: tmp_chroot/var/drizzle: File exists
mkdir: tmp_chroot/var/drizzle: File exists
mkdir: tmp_chroot/var/drizzle: File exists
mkdir: tmp_chroot/var/drizzle: File exists
CXX      libtest/abort.o
CXX      libtest/wait.o
CXX      libtest/dream.o
CXX      libhashkit/libhashkit_libhashkitinc_la-aes.lo
CXX      libhashkit/libhashkit_libhashkitinc_la-algorithm.lo
CXX      libhashkit/libhashkit_libhashkitinc_la-behavior.lo
CXX      libhashkit/libhashkit_libhashkitinc_la-crc32.lo
CXX      libhashkit/libhashkit_libhashkitinc_la-digest.lo
CXX      libhashkit/libhashkit_libhashkitinc_la-encrypt.lo
CXX      libhashkit/libhashkit_libhashkitinc_la-fnv_32.lo
CXX      libhashkit/libhashkit_libhashkitinc_la-fnv_64.lo
CXX      libhashkit/libhashkit_libhashkitinc_la-function.lo
CXX      libhashkit/libhashkit_libhashkitinc_la-has.lo
CXX      libhashkit/libhashkit_libhashkitinc_la-hashkit.lo
CXX      libhashkit/libhashkit_libhashkitinc_la-jenkins.lo
CXX      libhashkit/libhashkit_libhashkitinc_la-ketama.lo
CXX      libhashkit/libhashkit_libhashkitinc_la-md5.lo
In file included from libtest/dream.cc:38:
In file included from ./libtest/common.h:85:
In file included from ./libtest/test.hpp:77:
In file included from ./libtest/comparison.hpp:42:
/libmemcached-1.0/memcached.h:46:12: fatal error: 'tr1/cinttypes' file not
      found
#  include <tr1/cinttypes>
      ^
CXX      libhashkit/libhashkit_libhashkitinc_la-murmur.lo
CXX      libhashkit/libhashkit_libhashkitinc_la-murmur3.lo
1 error generated.
make[1]: *** [libtest/dream.o] Error 1
make[1]: *** Waiting for unfinished jobs....
make: *** [all] Error 2
localhost:libmemcached-1.0.16 Imooc$
```

解决方法:

安装 gcc

brew install gcc


```
localhost:~ Imooc$ brew install gcc
==> Installing dependencies for gcc: gmp, mpfr, libmpc, isl
==> Installing gcc dependency: gmp
==> Downloading https://homebrew.bintray.com/bottles/gmp-6.1.2.el_capitan.bottle
100.0%
==> Pouring gmp-6.1.2.el_capitan.bottle.1.tar.gz
📦 /usr/local/Cellar/gmp/6.1.2: 18 files, 3.1MB
==> Installing gcc dependency: mpfr
==> Downloading https://homebrew.bintray.com/bottles/mpfr-3.1.5.el_capitan.bottl
100.0%
==> Pouring mpfr-3.1.5.el_capitan.bottle.tar.gz
📦 /usr/local/Cellar/mpfr/3.1.5: 25 files, 3.6MB
==> Installing gcc dependency: libmpc
==> Downloading https://homebrew.bintray.com/bottles/libmpc-1.0.3_1.el_capitan.b
100.0%
==> Pouring libmpc-1.0.3_1.el_capitan.bottle.tar.gz
📦 /usr/local/Cellar/libmpc/1.0.3_1: 12 files, 346.8KB
==> Installing gcc dependency: isl
==> Downloading https://homebrew.bintray.com/bottles/isl-0.18.el_capitan.bottle.
100.0%
==> Pouring isl-0.18.el_capitan.bottle.tar.gz
📦 /usr/local/Cellar/isl/0.18: 80 files, 3.8MB
==> Installing gcc
==> Downloading https://homebrew.bintray.com/bottles/gcc-7.2.0.el_capitan.bottle
100.0%
==> Pouring gcc-7.2.0.el_capitan.bottle.tar.gz
📦 /usr/local/Cellar/gcc/7.2.0: 1,486 files, 289.8MB
```

然后进行 `make & make install`

根据 phpinfo 信息找到 php.ini 文件如图

localhost/phpinfo.php	
英语 网页, 是否需要翻译? 否 翻译 一律不翻译英语	
	with-openssl' '--enable-zip' '--with-iconv=/Applications/MAMP/Library' '--enable-opcache' '--enable-intl' '--with-tidy=shared' '--with-icu-dir=/Applications/MAMP/Library' '--enable-wddx' '--with-libexpat-dir=/Applications/MAMP/Library' '--with-readline'
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/Applications/MAMP/bin/php/php7.0.8/conf
Loaded Configuration File	/Library/Application Support/appssolute/MAMP PRO/conf/php.ini
Scan this dir for additional .ini files	(none)
Additional .ini files parsed	(none)
PHP API	20151012

编辑 php.ini 文件

`extension = memcached.so`

注: 添加的 `extension = memcached.so`

和 PHP 的版本有关系, 在 Windows 下的 memcached 的扩展文件 memcache

的扩展文件。

然后重新启动 Apache



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