

花生壳客户端

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1. 使用命令 `sudo apt-get install autoconf automake`
安装依赖包

```
pi@raspberrypi-wt: ~ — ssh — 80x24
/dev/mmcblk0p1 56M 15M 42M 26% /boot
root@raspberrypi-wt:/etc/transmission-daemon# sudo apt-get install autoconf automake
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  autotools-dev m4
Suggested packages:
  autoconf2.13 autoconf-archive gnu-standards autoconf-doc libtool gettext
The following NEW packages will be installed:
  autoconf automake autotools-dev m4
0 upgraded, 4 newly installed, 0 to remove and 21 not upgraded.
Need to get 1,516 kB of archives.
After this operation, 4,053 kB of additional disk space will be used.
Do you want to continue [Y/n]? y
Get:1 http://mirrors.zju.edu.cn/raspbian/raspbian/ wheezy/main m4 armhf 1.4.16-3
  [246 kB]
Get:2 http://mirrors.zju.edu.cn/raspbian/raspbian/ wheezy/main autoconf all 2.69
-1 [589 kB]
Get:3 http://mirrors.zju.edu.cn/raspbian/raspbian/ wheezy/main autotools-dev all
  20120608.1 [73.0 kB]
Get:4 http://mirrors.zju.edu.cn/raspbian/raspbian/ wheezy/main automake all 1:1.
11.6-1 [607 kB]
```

2. 使用命令

`wget http://download.oray.com/peanuthull/phddns-2.0.2.16556.tar.gz`

从花生壳网站上面获取phddns安装包

```
root@raspberrypi-wt:/home/pi# wget http://download.oray.com/peanuthull/phddns-2
.0.2.16556.tar.gz
--2015-03-26 19:12:15-- http://download.oray.com/peanuthull/phddns-2.0.2.16556.
tar.gz
Resolving download.oray.com (download.oray.com)... 61.152.96.115
Connecting to download.oray.com (download.oray.com)|61.152.96.115|:80... connect
ed.
HTTP request sent, awaiting response... 200 OK
Length: 104718 (102K) [application/octet-stream]
Saving to: `phddns-2.0.2.16556.tar.gz'

100%[=====>] 104,718 590K/s in 0.2s

2015-03-26 19:12:15 (590 KB/s) - `phddns-2.0.2.16556.tar.gz' saved [104718/10471
8]

root@raspberrypi-wt:/home/pi#
```

3. 解压安装包，使用命令

tar zxvf phddns-2.0.2.16556.tar.gz

```
pi@raspberrypi-wt: ~ — ssh — 80x24
root@raspberrypi-wt:/home/pi# tar zxvf phddns-2.0.2.16556.tar.gz
phddns-2.0.2.16556/
phddns-2.0.2.16556/Makefile.in
phddns-2.0.2.16556/NEWS
phddns-2.0.2.16556/AUTHORS
phddns-2.0.2.16556/src/
phddns-2.0.2.16556/src/Makefile.in
phddns-2.0.2.16556/src/phglobal.h
phddns-2.0.2.16556/src/md5.c
phddns-2.0.2.16556/src/phsocket.h
phddns-2.0.2.16556/src/base64.c
phddns-2.0.2.16556/src/phupdate.h
phddns-2.0.2.16556/src/log.c
phddns-2.0.2.16556/src/phruncall.c
phddns-2.0.2.16556/src/phsocket.c
phddns-2.0.2.16556/src/generate.h
phddns-2.0.2.16556/src/Makefile.am
phddns-2.0.2.16556/src/phupdate.c
phddns-2.0.2.16556/src/log.h
phddns-2.0.2.16556/src/blowfish.c
phddns-2.0.2.16556/src/lutil.h
phddns-2.0.2.16556/src/generate.c
phddns-2.0.2.16556/src/md5.h
phddns-2.0.2.16556/src/phruncall.h
```

4. 编译安装phddns

以此输入命令

```
aclocal
autoconf
automake
./configure
make
```

```
root@raspberrypi-wt:/home/pi/phddns-2.0.2.16556# aclocal
root@raspberrypi-wt:/home/pi/phddns-2.0.2.16556# autoconf
root@raspberrypi-wt:/home/pi/phddns-2.0.2.16556# automake
root@raspberrypi-wt:/home/pi/phddns-2.0.2.16556# ./configure
checking for a BSD-compatible install... /usr/bin/install -c
checking whether build environment is sane... yes
/home/pi/phddns-2.0.2.16556/missing: Unknown `--run' option
Try `/home/pi/phddns-2.0.2.16556/missing --help' for more information
configure: WARNING: `missing' script is too old or missing
```

```
pi@raspberrypi-wt: ~ — ssh — 80x24
config.status: creating Makefile
config.status: creating src/Makefile
config.status: executing depfiles commands
root@raspberrypi-wt:/home/pi/phddns-2.0.2.16556# make
Making all in src
make[1]: Entering directory '/home/pi/phddns-2.0.2.16556/src'
gcc -DPACKAGE_NAME=\"FULL-PACKAGE-NAME\" -DPACKAGE_TARNAME=\"full-package-name\"
-DPACKAGE_VERSION=\"VERSION\" -DPACKAGE_STRING=\"FULL-PACKAGE-NAME\\ VERSION\" -
DPACKAGE_BUGREPORT=\"BUG-REPORT-ADDRESS\" -DPACKAGE_URL=\"\" -DPACKAGE=\"phddns\\
\" -DVERSION=\"2.0.2.16556\" -DSTDC_HEADERS=1 -DHAVE_SYS_TYPES_H=1 -DHAVE_SYS_STA
T_H=1 -DHAVE_STDLIB_H=1 -DHAVE_STRING_H=1 -DHAVE_MEMORY_H=1 -DHAVE_STRINGS_H=1 -
DHAVE_INTTYPES_H=1 -DHAVE_STDINT_H=1 -DHAVE_UNISTD_H=1 -DHAVE_ARPA_INET_H=1 -DHA
VE_FCNTL_H=1 -DHAVE_MEMORY_H=1 -DHAVE_NETDB_H=1 -DHAVE_NETINET_IN_H=1 -DHAVE_STD
DEF_H=1 -DHAVE_STDLIB_H=1 -DHAVE_STRING_H=1 -DHAVE_SYS_IOCTL_H=1 -DHAVE_SYS SOCK
ET_H=1 -DHAVE_SYS_TIME_H=1 -DHAVE_SYS_TIMEB_H=1 -DHAVE_TERMIOS_H=1 -DHAVE_UNISTD
_H=1 -DHAVE__BOOL=1 -DHAVE_STDBOOL_H=1 -DTIME_WITH_SYS_TIME=1 -DHAVE_SYS_SELECT_
H=1 -DHAVE_SYS_SOCKET_H=1 -DSELECT_TYPE_ARG1=int -DSELECT_TYPE_ARG234=(fd_set\\
\\*) -DSELECT_TYPE_ARG5=(struct\\ timeval\\ \\*) -DRETSIGTYPE=void -DHAVE_STRFTIM
E=1 -DHAVE_VPRINTF=1 -DHAVE_GETHOSTBYNAME=1 -DHAVE_INET_NTOA=1 -DHAVE_ISASCII=1
-DHAVE_MEMSET=1 -DHAVE_SELECT=1 -DHAVE_SOCKET=1 -DHAVE_STRCHR=1 -DHAVE_STRSTR=1
-I. -I. -g -O2 -MT base64.o -MD -MP -MF .deps/base64.Tpo -c -o base64.o base6
4.c
mv -f .deps/base64.Tpo .deps/base64.Po
gcc -DPACKAGE_NAME=\"FULL-PACKAGE-NAME\" -DPACKAGE_TARNAME=\"full-package-name\"
```

至此，安装完成

5. 配置使用花生壳客户端

使用phddns命令，同时我们已经拥有了一个花生壳的客户端

```
root@raspberrypi-wt:/home/pi/phddns-2.0.2.16556/src# ./phddns
Enter server address(press ENTER use phlinux3.oray.net):
Enter your Oray account:wtwxsh
Password:
Network interface(s):
[eth0] = [IP:192.168.1.221][MAC:be8884b2:be8884b3:be8884b4:be8884b5:be8884b6:be8
884b7]
[lo] = [IP:127.0.0.1][MAC:be888492:be888493:be888494:be888495:be888496:be888497]
Choose one(default eth0):
Log to use(default /var/log/phddns.log):
/var/log/phddns.log
Save to configuration file (/etc/phlinux.conf)?(yes/no/other):yes
192.168.1.221
VIC bind success
defOnStatusChanged okConnecting
defOnStatusChanged okRedirecting
defOnStatusChanged okConnecting
defOnStatusChanged okDomainListed
defOnDomainRegistered wtwxsh.eicp.net
defOnDomainRegistered wtw.wicp.net
defOnUserInfo <userInfo account='wtwxsh' login='wtwxsh'><ID>13082529</ID><Acco
```

可以看出花生壳的客户端的确显示出了我的账户的信息；

6. 进一步配置

将花生壳的客户端命令phddns加入/usr/bin中可以直接使用，同时设定花生壳客户端在后台自动运行；

```
root@raspberrypi-wt:/home/pi/phddns-2.0.2.16556/src# cp phddns /usr/bin
root@raspberrypi-wt:/home/pi/phddns-2.0.2.16556/src# /usr/bin/phddns -c /etc/ph
linux.conf -d
192.168.1.221
NIC bind success
phddns started as daemon!
root@raspberrypi-wt:/home/pi/phddns-2.0.2.16556/src# nano /etc/rc.local
root@raspberrypi-wt:/home/pi/phddns-2.0.2.16556/src# █
```

7.使用花生壳的动态域名登陆我们的板子：

```
terence@TerencedeMBP -> sudo ssh pi@rpiwt.wtwtwxs.org
The authenticity of host 'rpiwt.wtwtwxs.org (192.168.1.125)' can't be establishe
d.
RSA key fingerprint is b9:1e:43:0b:1e:c5:15:76:c3:c8:f5:59:d8:1a:f3:1a.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'rpiwt.wtwtwxs.org' (RSA) to the list of known hosts.
pi@rpiwt.wtwtwxs.org's password:
Linux raspberrypi-wt 3.18.7+ #755 PREEMPT Thu Feb 12 17:14:31 GMT 2015 armv6l

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Wed Apr  1 22:55:00 2015 from terencedembp.lan
pi@raspberrypi-wt ~ $ █
```

这里，电脑和树莓派处于同一个局域网，我们只是将一个域名和一个局域网内的ip绑定起来，然后自然时能登陆的；

但是要是我们使用外网，来登陆树莓派，我觉得是行不通的，因为我们的树莓派的ip没有暴露在外网中，无法做到和花生壳绑定；即使寝室路由完成了端口映射，但是寝室路由的ip也没有显示在外网中....因此，要是通过外网访问，我认为难以实现，即使获得了树莓派的公网ip，也是难以去ping通；内网中自然无所谓啦...

至此，花生壳客户端已经基本搭建完成！