

花生壳客户端

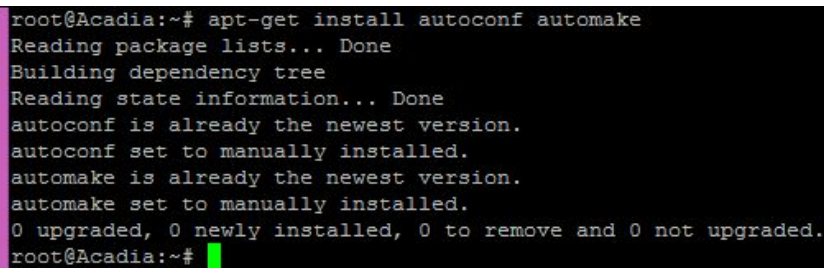
吴盼 3120101816

在 Acadia 或 RPi 或 WRTnode 上实现一个花生壳（oray.com）的客户端，
可以实现 3322.org 等免费域名的指向。

实验步骤

1. 安装依赖包；

命令：apt-get install autoconf automake



```
root@Acadia:~# apt-get install autoconf automake
Reading package lists... Done
Building dependency tree
Reading state information... Done
autoconf is already the newest version.
autoconf set to manually installed.
automake is already the newest version.
automake set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@Acadia:~#
```

2. 下载安装 phddns 并进行配置；

下载 phddns：

命令：wget <http://download.oray.com/peanuthull/phddns-2.0.2.16556.tar.gz>

```
root@Acadia:~# wget http://download.oray.com/peanuthull/phddns-2.0.2.16556.tar.gz
--2015-04-03 14:17:41-- 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... connected.
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      100K/s   in 1.0s

2015-04-03 14:17:47 (100 KB/s) - `phddns-2.0.2.16556.tar.gz' saved [104718/104718]

root@Acadia:~#
```

解压:

命令: tar zxvf phddns-2.0.2.16556.tar.gz

```
COM3 - PuTTY
root@Acadia:~# 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
```

编译安装:

命令:

cd phddns-2.0.2.16556

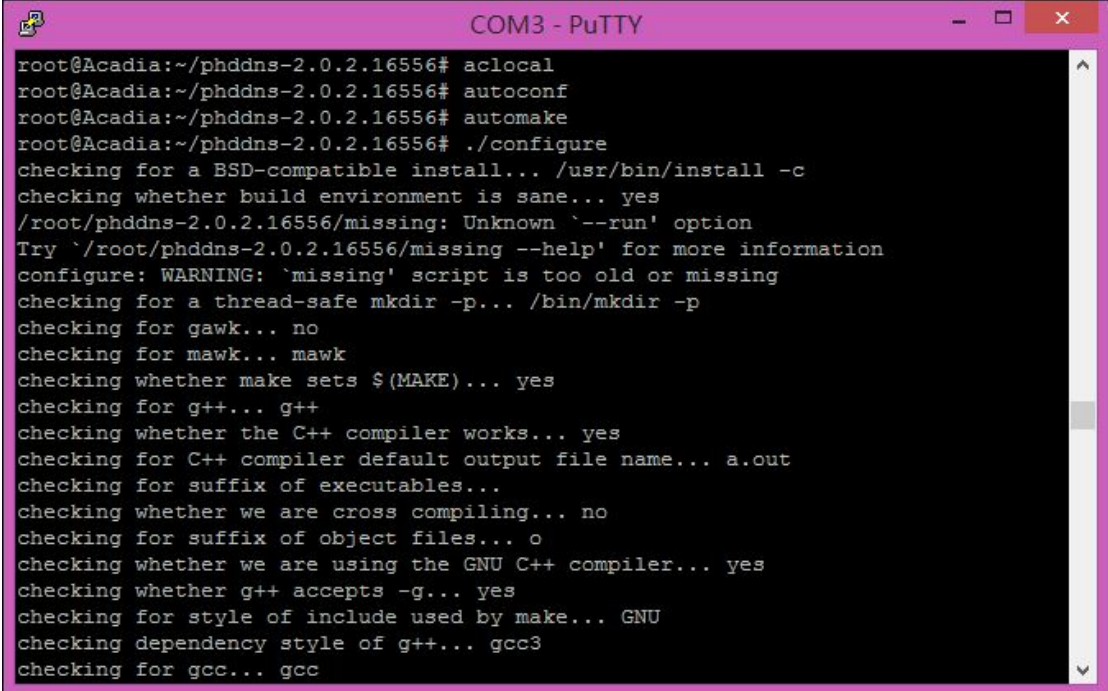
aclocal

autoconf

automake

./configure

make



```
root@Acadia:~/phddns-2.0.2.16556# aclocal
root@Acadia:~/phddns-2.0.2.16556# autoconf
root@Acadia:~/phddns-2.0.2.16556# automake
root@Acadia:~/phddns-2.0.2.16556# ./configure
checking for a BSD-compatible install... /usr/bin/install -c
checking whether build environment is sane... yes
/root/phddns-2.0.2.16556/missing: Unknown '--run' option
Try `./root/phddns-2.0.2.16556/missing --help' for more information
configure: WARNING: `missing' script is too old or missing
checking for a thread-safe mkdir -p... /bin/mkdir -p
checking for gawk... no
checking for mawk... mawk
checking whether make sets $(MAKE)... yes
checking for g++... g++
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 g++ accepts -g... yes
checking for style of include used by make... GNU
checking dependency style of g++... gcc3
checking for gcc... gcc
```

配置：

先在官网注册



 个人帐号

 企业帐号

帐号

密码

重复密码

常用邮箱 找回密码时使用

验证码



命令: cd src

./phddns

```

COM3 - PuTTY
root@Acadia:~/phddns-2.0.2.16556# cd src
root@Acadia:~/phddns-2.0.2.16556/src# ./phddns
Enter server address (press ENTER use phlinux3.oray.net):
Enter your Oray account: zhuaa2012
Password:
Network interface(s):
[eth0] = [IP:192.168.137.197] [MAC:7ebb7432:7ebb7433:7ebb7434:7ebb7435:7ebb7436:7ebb7437]
[lo] = [IP:127.0.0.1] [MAC:7ebb7412:7ebb7413:7ebb7414:7ebb7415:7ebb7416:7ebb7417]
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
192.168.137.197
NIC bind success
defOnStatusChanged okConnecting
defOnStatusChanged okRedirecting
defOnStatusChanged okConnecting
defOnStatusChanged okDomainListed
defOnDomainRegistered zhuaa2012.eicp.net
defOnUserInfo <userInfo account='zhuaa2012' login='zhuaa2012'><ID>13117174</ID><Account>zhuaa2012</Account><Password></Password><Email>zhuaa2012@163.com</Email><RegDate>1428042854</RegDate><Credit>0.0</Credit><Largess>0.0</Largess><IsEnable></IsEnable><IsEnterprise>0</IsEnterprise><IsMale>1</IsMale><AccountUserType>1</AccountUserType><RegDate>1428042854</RegDate><ProExpireDate>0</ProExpireDate><ServiceType>0</ServiceType><ClientIP>698391991</ClientIP></userInfo>
defOnAccountDomainInfo <domainInfo account='zhuaa2012' login='zhuaa2012'><domain><domain><DomainName>zhuaa2012.eicp.net</DomainName><RegDate>1428042858</RegDate>
    
```

输入服务器地址，如无特殊情况可使用默认值

Enter server address(press ENTER use phlinux3.oray.net):

输入您的 Oray 帐号名称

Enter your Oray account:

对应的 Oray 帐号密码

Password:

选择绑定的网卡，如无特殊，默认即可

Network interface(s):

eth0:192.168.141.18

lo:127.0.0.1

Choose one(default eth0):

选择日志保存到哪个文件

Log to use(default /var/log/phddns.log):

保存配置文件，选择 yes 则直接保存到/etc/phlinux.conf，输入 other 可以指定文件

Save to configuration file (/etc/phlinux.conf)?(yes/no/other):

接下来程序将已交互模式开始运行

192.168.141.18

NIC bind success

OnStatusChanged okConnecting

OnStatusChanged okDomainListed

OnDomainRegistered skyvense22.gicp.net

OnStatusChanged okDomainsRegistered

UserType: 0

看到上面这些就表示登录成功，这个时候可以按 `ctrl+c` 先退出程序。

3. 检查运行状况。

将 `phddns` 拷贝到 `bin` 文件夹中以便快捷执行

以后台模式启动花生壳并检查运行情况：

命令：`/usr/bin/phddns -c /etc/phlinux.conf -d`

```
root@Acadia:~/phddns-2.0.2.16556/src# cp phddns /usr/bin/  
root@Acadia:~/phddns-2.0.2.16556/src# /usr/bin/phddns -c /etc/phlinux.conf -d  
192.168.137.197  
NIC bind success  
phddns started as daemon!  
root@Acadia:~/phddns-2.0.2.16556/src#
```

将花生壳加到系统启动时运行：

命令：`nano /etc/rc.local`

在末尾加上：`/usr/bin/phddns -c /etc/phlinux.conf -d`


```
COM3 - PuTTY
GNU nano 2.2.6      File: /etc/rc.local

#!/bin/sh -e
#
# rc.local
#
# This script is executed at the end of each multiuser runlevel.
# Make sure that the script will "exit 0" on success or any other
# value on error.
#
# In order to enable or disable this script just change the execution
# bits.
#
# By default this script does nothing.

sudo modprobe vivante
sudo modprobe galcore
exit 0
/usr/bin/phddns -c /etc/phlinux.conf -d

[ Wrote 17 lines ]

root@Acadia:~/phddns-2.0.2.16556/src#
```

直接运行：查看绑定的域名和 IP

```
COM3 - PuTTY

root@Acadia:~/phddns-2.0.2.16556/src# ./phddns
192.168.137.197
NIC bind success
defOnStatusChanged okConnecting
defOnStatusChanged okRedirecting
defOnStatusChanged okConnecting
defOnStatusChanged okDomainListed
defOnDomainRegistered zhuaa2012.eicp.net
defOnUserInfo <userInfo account='zhuaa2012' login='zhuaa2012'><ID>13117174</ID><Account>zhuaa2012</Account><Password></Password><Email>zhuaa2012@163.com</Email><RegDate>1428042854</RegDate><Credit>0.0</Credit><Largess>0.0</Largess><IsEnable></IsEnable><IsEnterprise>0</IsEnterprise><IsMale>1</IsMale><AccountUserType>1</AccountUserType><RegDate>1428042854</RegDate><ProExpireDate>0</ProExpireDate><ServiceType>0</ServiceType><ClientIP>698391991</ClientIP></userInfo>
defOnAccountDomainInfo <domainInfo account='zhuaa2012' login='zhuaa2012'><domains><domain><DomainName>zhuaa2012.eicp.net</DomainName><RegDate>1428042858</RegDate><Account>zhuaa2012</Account><StatusCode>665</StatusCode><RootName>eicp.net</RootName><IsFree>1</IsFree></domain></domains><domainInfo>
defOnStatusChanged okDomainsRegistered, UserType: 0
defOnStatusChanged okKeepAliveRecved, IP: 698391991
defOnStatusChanged okKeepAliveRecved, IP: 698391991
defOnStatusChanged okKeepAliveRecved, IP: 698391991
defOnStatusChanged okKeepAliveRecved, IP: 698391991
```

从外网访问 pcDuino，花生壳域名解析的过程：

