

任务 14：花生壳客户端

3120104648 李书楠

15158070122

lishunan246@gmail.com

实验目的

了解花生壳客户端的概念及其基本实现方法；
掌握 Acadia 或 RPi 或 WRTnode 上建立花生壳客户端的方式；

实验器材

硬件

LinkSprite Acadia
MicroUSB 数据线
TP-Link WR874N 无线路由器

软件

Xshell 5
Microsoft Windows 8.1

实验步骤

安装依赖包；
下载安装 phddns 并进行配置；
检查运行状况。

实验过程及结果

首先需要获得一个花生壳账户和免费域名。

[< 返回](#) | [lishunan246 购买](#)

域名列表

高级设置

登录日志

帐号信息

域名列表

域名

lishunan246.vicp.cc

添加域名

注册壳域名

操作

关闭花生壳 共享

我的免费域名是 lishunan246.vicp.cc, 成功配置花生壳客户端后, 这个域名将被解析到我的公网 ip。

下载 phddns 源代码并解压缩

```
lishunan@Acadia:~$ wget http://download.oray.com/peanuthull/phddns-2.0.5.19225.tar.gz
--2015-03-27 14:43:54-- http://download.oray.com/peanuthull/phddns-2.0.5.19225.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: 104760 (102K) [application/octet-stream]
Saving to: `phddns-2.0.5.19225.tar.gz'
```

```
100%[=====
```

```
2015-03-27 14:43:59 (1.63 MB/s) - `phddns-2.0.5.19225.tar.gz' saved [104760/104760]
```

```
lishunan@Acadia:~$ tar zxvf phddns-2.0.5.19225.tar.gz
phddns-2.0.5.19225/
phddns-2.0.5.19225/Makefile.in
```

执行以下命令以完成编译

```
cd phddns-2.0.5.19225
```

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

用 sudo 权限运行 src/phddns

```
lishunan@Acadia:~/phddns-2.0.5.19225/src$ sudo !!
sudo ./phddns
Enter server address(press ENTER use phlinux3.oray.net):lishun^H^H^H^H^H^H^H^H^H^H^H^H^H
Enter server address(press ENTER use phlinux3.oray.net):
Enter your Oray account:lishunan246
Password:
Network interface(s):
[eth0] = [IP:192.168.1.4]
[lo] = [IP:127.0.0.1]
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):
Save to configuration file (/etc/phlinux.conf)?(yes/no/other):yes
192.168.1.4
NIC bind success
defOnStatusChanged okConnecting
defOnStatusChanged okRedirecting
defOnStatusChanged okConnecting
defOnStatusChanged okDomainListed
defOnDomainRegistered lishunan246.vicp.cc
defOnUserInfo <userInfo account='lishunan246' login='lishunan246'><ID>7980309</ID><Account>1.
246@gmail.com</Email><RegDate>1348048115</RegDate><Credit>0.0</Credit><Largess>0.0</Largess>
actor>高耗能鹅</Contactor><IsMale>1</IsMale><AccountUserType>1</AccountUserType><RegDate>134
```

```
defOnAccountDomainInfo <domainInfo account='lishunan246
348048116</RegDate><Account>lishunan246</Account><Statu:
inInfo>
defOnStatusChanged okDomainsRegistered, UserType: 0

defOnStatusChanged okKeepAliveRecved, IP: 1000381879
defOnStatusChanged okKeepAliveRecved, IP: 1000381879
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```

需要输入花生壳账户和密码。选择有线网卡 eth0。


检查域名是否正确解析

```
PS C:\Users\Li Shunan> ping lishunan246.vicp.cc
正在 Ping lishunan246.vicp.cc [183.157.160.59] 具有 32 字节的数据:
请求超时。
请求超时。
请求超时。
请求超时。


183.157.160.59 的 Ping 统计信息:
    数据包: 已发送 = 4, 已接收 = 0, 丢失 = 4 (100% 丢失),
PS C:\Users\Li Shunan>
```

可以看到域名解析到了 183.157.160.59。

在 who.is 查询公网 ip，也是 183.157.160.59。说明该域名已经成功解析。



WHOIS Search, [Domain Name](#), Website, and IP Tools



Your IP address is [183.157.160.59](#)

小结

由于花生壳获得的是学校内网的出口 IP，外网的用户不能根据该 IP 访问到 pcDuino。