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## Linux Share a Dial Up Internet Connection

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**Q.** My modem is connected to CentOS Linux server. I'm using [wvdial](#) <sup>[2]</sup> to connect to my ISP; I'd like to connect my laptop via same modem. How do I share a dial up Internet account?

**A..** You can use iptables. It supports - IP Masquerading i.e. network address translation (NAT) to share internet.

Connect laptop to Linux box using hub / switch / cross-over Ethernet cable

[1]

Dial out [using wvdial](#) <sup>[2]</sup>

Make sure ppp0 is up

Once connected type the following two command at a shell prompt to share ppp0 interface:

```
# sysctl -w net.ipv4.ip_forward=1
# iptables --table nat --append POSTROUTING --out-interface ppp0 -j MASQUERADE
```

You need to add above rules to your existing iptables scripts. You can also create a script call share.ppp0 at /etc/ppp/ip-up.d/ with above two lines. This script run by the pppd after the link is established.

```
# cat > /etc/ppp/ip-up.d/share.ppp0
```

Append following code:

```
#!/bin/sh
sysctl -w net.ipv4.ip_forward=1
iptables --table nat --append POSTROUTING --out-interface ppp0 -j MASQUERADE
# add other firewall rules below
# ....
```

Save and close the file.

## Client Computer Setup

Login to laptop, set Linux server IP address as default gateway IP. Also setup nameserver IP address (NS1 / NS2). Run ping command to test connectivity:

```
$ ping google.com
$ ping linux-box.ip
$ nslookup google.com
```

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[1] Image: <http://www.cyberciti.biz/faq/faq/category/networking/>

[2] wvdial: <http://www.cyberciti.biz/tips/linux-configure-modem-to-connect-to-the-internet-using-a-ppp-dialup-account.html>

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