

Here is an article that we used to get the last few steps correct:
 https://www.cactusvpn.com/tutorials/how-to-set-up-softether-vpn-client-on-linux/

*The CactusVPN tutorial sends ALL traffic through the VPN. We will enable **Split Tunneling***

 We are using the below variables as examples. Your setup will be different. Please see your Portal > VPN sections for your Server IP and credentials:

Server IP: 192.168.1.1 Username: user1 Password: friday

NOTE: The name of the tap interface will be prepended by "vpn_", so if you type in "tap0" in vpncmd it will create a virtual interface named "vpn_tap0".

• Ensure that ip forward is enabled in the kernel:

```
$> echo 1 | sudo tee /proc/sys/net/ipv4/ip_forward
```

- Download the SoftEther *vpnclient*.
 - SoftEther's download website is here: http://www.softetherdownload.com/en.aspx
 - Here is a working link as of 12/27/2021:
 https://github.com/SoftEtherVPN/SoftEtherVPN Stable/releases/download/v4.38-9760-rtm/softether-vpnclient-v4.38-9760-rtm-2021.08.17-linux-x64-64bit.tar.gz
- Install the SoftEther *vpnclient*

```
$> wget
https://github.com/SoftEtherVPN/SoftEtherVPN_Stable/releases/download/
v4.38-9760-rtm/softether-vpnclient-v4.38-9760-rtm-2021.08.17-linux-
x64-64bit.tar.gz
$> tar -xvzf softether-vpnclient-v4.38-9760-rtm-2021.08.17-linux-x64-
64bit.tar.gz
$> cd vpnclient/
$> make
```

- * This tutorial assumes *vpncmd* and *vpnclient* are running from the source directory *
- Start the *vpnclient* using sudo:

```
$> sudo ./vpnclient start
```

• Test the *vpnclient* by connecting to the client demon:

\$> ./vpncmd

- select '2' to connect to a client VPN instance
- Hit enter to use localhost as the address for the VPN client

VPN Client> check

• Create a new virtual network interface (called "tap1" in this tutorial):

VPN Client>NicCreate tap1

• Create an account (called "newAccount") using the server IP, username, and tap name:

```
VPN Client>accountcreate
    AccountCreate command - Create New VPN Connection Setting
    Name of VPN Connection Setting: newAccount
    Destination VPN Server Host Name and Port Number: 192.168.1.1:4500
    Destination Virtual Hub Name: DEFAULT
    Connecting User Name: user1
    Used Virtual Network Adapter Name: tap1
    The command completed successfully.

VPN Client>
```

• Add a password for this vpn account:

```
VPN Client>AccountPasswordSet newAccount
* enter and confirm the password
* when asked about "standard" or "radius", choose "standard".
```

Connect to the VPN server:

VPN Client>AccountConnect newAccount

Check the log file to see if there are any errors:

```
$> vim client_log/*.log
```

• Run *dhclient* on the virtual interface

```
$> sudo dhclient vpn_tap1
```

You may need to add a route to your Employees Subnet if dhclient doesn't

```
$> sudo ip route add 192.168.3.0/24 via 192.168.252.1 dev vpn_tap1
```

• The **vpncmd** commands can be ran from the command line:

```
$> ./vpncmd localhost /CLIENT /CMD accountconnect newAccount
```

If you are running Linux in a VM with Bridged Networking you may need to add a firewall rule for your adapter, vpn tap1 is the example we used in this document.

```
sudo iptables --table nat --append POSTROUTING --out-interface vpn_tap1 -j MASQUERADE sudo
iptables --append FORWARD --in-interface vpn_tap1 -j ACCEPT
```