

# Setting Up BytzVPN with Ubuntu Touch

Setting up Bytz VPN on Ubuntu Touch is a tedious and detailed process because there's a bug in the Network Manager standard interface built into Ubuntu.

1. Download the app VPN Editor from the OpenStore. Do not set up a VPN in settings at this time.
2. Using the Morph Browser, go to [BytzVPN.com](http://BytzVPN.com) and download the certificates used for VPN East. You must use East because it's the only region that does not require a private key password, and that part is not working on the Ubuntu Network Manager.

There will be 4 certificate files.

Long click each link and you will see the options "save link" which is what you use to save the file. It will save the file in the *home/phablet/Downloads* directory.

(For future reference, these files are just created by extracting just the certificate portion of the main ovpn file and splitting it into separate files as required by Network Manager).

3. In VPN Editor, create a new VPN entry. It should make a name like 'VPN connection 1'. This is too long of a name. Simplify this to 'VPN1'.

Here are the other settings:

type: OpenVPN  
Remote: [tsrveast01.bytz.io](http://tsrveast01.bytz.io)  
protocol: udp  
Authentication Type: Password + Certificate TLS  
username: xxxxxxxxxxxxxxxxx  
password: (leave blank)

Client certificate: [BytzVPNEast-cert.pem](#)  
Private Key: [BytzVPNEast-priv.pem](#)  
CA certificate: [BytzVPNEast-ca.pem](#)  
key password: (leave blank)

In Security:  
Cipher: AES128CBC

In Advanced:  
Verify Peer Certificate: disabled  
TLS certificate: [BytzVPNEast-tls.pem](#)  
TLS direction: 1

Save these settings.

4. At this point, this will not work and the reason is that the password cannot be saved by Network Manager so we have to manually add it. Also there's no place to set an Auth setting.

So now go to Terminal (command line) and enter this:

```
sudo mount -o remount,rw /dev/sda1 /
```

*This will allow the system to be writable (it is read only normally on Ubuntu Touch).*

5. Go to this directory:

```
cd /userdata/system-data/etc/NetworkManager/system-connections
```

6. Now edit the VPN1 file that was created by Network Manager (VPN1 was the name we gave)

```
sudo nano VPN1
```

*Set this under*

*[vpn]*

*password-flags=0*

*auth=SHA256*

*cipher=AES-128-CBC*

*create a new heading*

*[vpn-secrets]*

*password=yourpassword*

*Select the 'nano' key choices on the menu option of the keyboard on the upper left of the keyboard.*

*Use Ctrl-O to save the settings*

*Use Ctrl-X to exit.*

*Now let's lock the file down so we don't edit it by mistake*

```
sudo chmod -w VPN1
```

7. Restart the device for the service to restart.

8. Now you can go to Settings to start the VPN. Do not use this VPN with a BraxWifi router since it will cause a loop and time out. Use it only when there's no router.

