Want Tor on a Router? For fun and profit? Well here we go!

Hardware

We need the following:

- Raspberry Pi (Modell B, REV1 or REV2) ~40€
- A case for our Pi ~10€
- Transcend Extreme-Speed SDHC 16GB SDCARD ~12€
- Micro-USB 5V 1500mA Power Supply ~4€
- LAN Cable ~1€
- TP-Link TL-WN722N Wireless adapter ~12€
- D-Link DUB-H4 USB HUB ~18€

Makes a total of ~97€ for a rady-to-go Tor Hotspot. (amazon prices!)

Setup

Prepare the SDCard with the latest version of Raspbian.

```
wget -O /tmp/raspbian.img http://downloads.raspberrypi.org/raspbian_latest
dd if=/tmp/raspbian.img of=/dev/<YOUR SDCARD> bs=4M
```

- Plug the SDcard into the Pi
- Connect it with the LAN cable to your router/switch
- Connect the Pi with an HDMI cable to a monitor
- Connect the USB Hub to the Pi.
- On the HUB, connect an USB Keyboard and the Wireless adapter.
- Connect the USB Hub and the Pi to their power supplies and fire it all up.

Config

When raspi-config opens, tell it to expand the filesystem to the full size of your SDcard.
Next, go and enable the SSH daemon. Now you can change the hostname to something like
"TorRouter".

Switch to the root user!
```
sudo su
```
Install Hostapd (does the Hotspot/Access Point) stuff, the DCHP server and Tor.
```
apt-get update && apt-get install isc-dhcp-server tor
```
For our setup we must compile Hostapd by hand as our TP-Link TL-WN722N uses a driver that's not
enabled by the default raspbian hostapd. `apt-get install libssl-dev libnl-dev`
```
wget http://w1.fi/releases/hostapd-2.0.tar.gz
tar xzvf hostapd-2.0.tar.gz
cd hostapd-2.0/hostapd
```

```
cp defconfig .config
nano .config
```
Uncomment the following line
```
#CONFIG_DRIVER_NL80211=y
```
Compile it!
```
make
make install
```