

# Tor Project

## A Pi a day, keeps censorship away

You would like to support human rights? Then please follow the how-to.

**Note:** We assume you have a new working [Arch Linux](#) running on your [RaspberryPi](#).

## Installation

First we have to install all the packages which are needed & useful to us.

```
<sxh bash;> root@pi# pacman -Syyu root@pi# pacman -S base-devel vim tor ntp tor vnstat sudo
</sxh>
```

After that we should create us an own user account with sudo privileges.

```
<sxh bash;> root@pi# useradd -m -s /bin/bash YOUR_USERNAME root@pi# vimsudo /etc/sudoers ...
</sxh>
```

Now, we install [yaourt](#) in order to fetch and install packages from the AUR.

```
<sxh bash;> root@pi# su YOUR_USERNAME root@pi# wget
https://aur.archlinux.org/packages/ya/yaourt/yaourt.tar.gz root@pi# tar xfv yaourt.tar.gz root@pi# cd
yaourt root@pi# makepkg -si root@pi# cd ~/ root@pi# rm -r yaourt* root@pi# yaourt -Syua
root@pi# yaourt -S arm </sxh>
```

In order to integrate tor into systemd, we need to write a -n own service file, which ensures fast, easy usage and the guarantuee that at every boot tor will be started along.

```
<sxh bash;> root@pi# cd /etc/systemd/system root@pi# vim tor.service </sxh>
```

```
<sxh bash; title: systemd service file - /etc/systemd/system/tor.service> [Unit] Description=Starting
Tor Service
```

```
[Service] ExecStart=/usr/bin/tor -f /etc/tor/torrc
```

```
[Install] After=multi-user.target </sxh>
```

```
<sxh bash;> root@pi# vim ntp-once.service </sxh>
```

```
<sxh plain; title:>
```

```
</sxh>
```

## Configuration

After this, we finally attack the most important part: Tor configuration.

```
<sxh bash;> root@pi# cd /etc/tor/ root@pi# mv torrc torrc.original root@pi# vim torrc </sxh>
```

```
<sxh plain; title: /etc/tor/torrc> ORPort 443
```

Log notice file /var/log/tor/notices.log

```
RelayBandwidthRate 100 KB # Throttle traffic to 100KB/s (800Kbps) RelayBandwidthBurst 200 KB #  
But allow bursts up to 200KB/s (1600Kbps)
```

```
#AccountingStart day 00:00 #AccountingMax 8 GB
```

```
SocksPort 0 BridgeRelay 1 Exitpolicy reject *: * </sxh>
```

## Up & Run!

Either type:

```
<sxh bash;> root@pi# systemctl start tor </sxh>
```

or simply boot up your device.

## References

- [Routing 150GB Tor traffic though a Raspberry Pi](#)
- [My Blog -Writing systemd service files](#)
- <https://trac.torproject.org/projects/tor/wiki/doc/TorFAQ#HowcanIlimitthetotalamountofbandwidthusedbymyTorrelay>
- [https://library.linode.com/securing-your-server#sph\\_creating-a-firewall](https://library.linode.com/securing-your-server#sph_creating-a-firewall)
- [https://www.torservers.net/wiki/setup/obfsproxy?s\[\]=torrc](https://www.torservers.net/wiki/setup/obfsproxy?s[]=torrc)

## Conclusion

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