

Server Setup

Requirements

Here are some minimum requirements you absolutely need to run a node.

Exits

1024 mb RAM
5 GB Diskspace
Dualcore

With this setup you can run a 50 mbit/s relay without running out of space or memory. To run anything faster you need at least twice as much power.

Gigabit servers should at least have the following settings

8 GB RAM
30 GB Diskspace
Octocore (with AES-NI enabled)

Relays

2048 mb RAM
5 GB Diskspace
Dualcore

Relay setups need nearly the same requirements as Exit Nodes.

Bridges

128 mb RAM
2 GB Diskspace
Singlecore

A Bridge doesn't need much of anything. Some more RAM could be useful if you decide to run more than one Bridge on the server. Nodes

If you get an SSL/TLS error while using wget to download our scripts from bitbucket, then you have to use the `-no-check-certificate` option!

Exit Nodes

First Step:

```
apt-get install build-essential
echo "deb http://deb.torproject.org/torproject.org <DISTRIBUTION> main" >>
/etc/apt/sources.list
gpg --keyserver keyserver.c3l.lu --recv 886DDD89
gpg --export A3C4F0F979CAA22CDBA8F512EE8CBC9E886DDD89 | apt-key add -
apt-get update
apt-get install deb.torproject.org-keyring
apt-get install tor
```

Second Step:

```
apt-get install openssl libssl-dev
cpan
cpan> install Net::Address::IP::Local Net::SSLeay IO::Socket::SSL
LWP::Protocol::https WWW::Mechanize
wget https://bitbucket.org/fvde/tor-autoconfig/raw/tip/autoconf.pl
perl autoconf.pl exit [YOUR-NODE-NICKNAME] [NETWORK SPEED]
[METERED|UNMETERED] ([TRAFFIC LIMIT])
wget -O /root/family_updater.pl
https://bitbucket.org/fvde/tor-autoconfig/raw/tip/family_updater.pl
crontab -e
```

```
*/10 * * * * perl /root/family_updater.pl
```

```
service tor restart
wget -O /root/update_server.pl
https://bitbucket.org/virii/update-ennstatus/raw/tip/update_server.pl
perl /root/update_server.pl [torrc] ([torrc2]) ([torrc3])
crontab -e
```

```
*/10 * * * * perl /root/update_server.pl torrc
```

Third Step:

```
apt-get install iftop htop python-pip
pip install nyx
wget https://download.adamas.ai/dlbase/Stuff/sthttpd/sthttpd-2.27.0.tar.gz
tar -zxvf sthttpd-2.27.0.tar.gz
cd sthttpd-2.27.0
adduser thttpd
./configure
make
make install
wget -O /etc/thttpd.conf https://exit-install.enn.lu/thttpd.conf
mkdir /var/www
wget -O /etc/init.d/thttpd https://exit-install.enn.lu/thttpd.init
```

```
chmod 0755 /etc/init.d/thttpd
service thttpd start
```

Forth Step:

```
apt-get install vnstati
cd /var/www
touch vnstat.png vnstat_d.png vnstat_m.png vnstat.xml
crontab -u thttpd -e
```

```
*/10 * * * * /usr/bin/vnstati -vs -o /var/www/vnstat.png -i eth0 >/dev/null
2>&1 ;
*/10 * * * * /usr/bin/vnstati -d -o /var/www/vnstat_d.png -i eth0 >/dev/null
2>&1 ;
1 3 * * * /usr/bin/vnstati -m -o /var/www/vnstat_m.png -i eth0 >/dev/null
2>&1 ;
1 3 * * * /usr/bin/vnstat -xml > /var/www/vnstat.xml 2>/dev/null ;
```

```
vnstat -u -i eth0
wget -O /var/www/index.html https://exit-install.enn.lu/exit-node.html
chown -R thttpd:thttpd /var/www
```

Fifth Step:

Control your torrc. A functional Exit torrc has to look like [this!](#)

```
service tor restart
```

Bridges

First Step:

```
apt-get install build-essential python-dev python-pip libgmp-dev
apt-get install golang
echo "deb https://deb.torproject.org/torproject.org <DISTRIBUTION> main" >>
/etc/apt/sources.list
echo "deb https://deb.torproject.org/torproject.org tor <DISTRIBUTION> main"
>> /etc/apt/sources.list
echo "deb https://deb.torproject.org/torproject.org obfs4proxy main" >>
/etc/apt/sources.list
curl
https://deb.torproject.org/torproject.org/A3C4F0F979CAA22CDBA8F512EE8CBC9E88
6DDD89.asc | gpg --import
gpg --export A3C4F0F979CAA22CDBA8F512EE8CBC9E886DDD89 | apt-key add -
apt-get update
apt-get install deb.torproject.org-keyring
apt-get install tor nix obfsproxy obfs4proxy fteproxy
```

Second Step:

```
apt-get install openssl libssl-dev
cpan
cpan> install Net::Address::IP::Local Net::SSLeay IO::Socket::SSL
LWP::Protocol::https WWW::Mechanize
wget https://bitbucket.org/fvde/tor-autoconfig/raw/tip/autoconf.pl
perl autoconf.pl bridge [YOUR-NODE-NICKNAME] [NETWORK SPEED]
[METERED|UNMETERED] ([TRAFFIC LIMIT])
wget -O /root/update_server.pl
https://bitbucket.org/virii/update-ennstatus/raw/tip/update_server.pl
crontab -e
```

```
*/10 * * * * perl /root/update_server.pl torrc
```

Third Step:

Control your torrc. A functional Bridge torrc has to look like [this!](#)

```
service tor restart
```

Multiple Tor Processes

```
wget https://bitbucket.org/fvde/tor-autoconfig/raw/tip/autoconf.pl
perl autoconf.pl bridge [TEXTFILE-CONTAINING-NAMES] [NETWORK SPEED]
[METERED|UNMETERED] ([TRAFFIC LIMIT])
```

There is a modified initscript that makes it easy to manage multiple Tor configurations on one machine.

```
cd /etc/init.d
wget -O tor https://exit-install.enn.lu/tor.initd
chmod +x tor
```

Starts/Stops multiple tor configs. Like torrc0 torrc1 torrc2

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Permanent link:
<http://wiki.enn.lu/doku.php?id=server-setup>

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