

FreeBSD Administration - Support #796

Install a TOR Exit Node on FreeBSD

04/10/2016 08:17 PM - Daniel Curtis

Status:	Closed	Start date:	04/10/2016
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	100%
Category:	The Onion Router (TOR)	Estimated time:	0.50 hour
Target version:	FreeBSD 10	Spent time:	1.00 hour

Description

This is a simple guide for getting TOR setup as an exit node on FreeBSD 10.2.

Prepare the Environment

- Make sure the system is up to date:

```
pkg update && pkg upgrade
```

Install TOR

- Install TOR:

```
pkg install tor
```

- Tor users are strongly advised to prevent traffic analysis that exploits sequential IP IDs by setting:

```
sysctl net.inet.ip.random_id=1
```

- Reboot for it to take effect:

```
reboot
```

- Edit the TOR config file:

```
vi /usr/local/etc/tor/torrc
```

- And add/modify the following lines:

```
ORPort 443
Nickname ExampleNode
RelayBandwidthRate 1024 KB
RelayBandwidthBurst 1024 KB
ContactInfo Bob User <bob@example.com>
ExitPolicy accept *:20-23      # FTP, SSH, telnet
ExitPolicy accept *:43         # WHOIS
ExitPolicy accept *:53         # DNS
ExitPolicy accept *:79-81     # finger, HTTP
ExitPolicy accept *:88         # kerberos
ExitPolicy accept *:110        # POP3
ExitPolicy accept *:143        # IMAP
ExitPolicy accept *:194        # IRC
ExitPolicy accept *:220        # IMAP3
```

```

ExitPolicy accept *:389 # LDAP
ExitPolicy accept *:443 # HTTPS
ExitPolicy accept *:464 # kpasswd
ExitPolicy accept *:531 # IRC/AIM
ExitPolicy accept *:543-544 # Kerberos
ExitPolicy accept *:554 # RTSP
ExitPolicy accept *:563 # NNTP over SSL
ExitPolicy accept *:636 # LDAP over SSL
ExitPolicy accept *:706 # SIILC
ExitPolicy accept *:749 # kerberos
ExitPolicy accept *:873 # rsync
ExitPolicy accept *:902-904 # VMware
ExitPolicy accept *:981 # Remote HTTPS management for firewall
ExitPolicy accept *:989-995 # FTP over SSL, telnets, IMAP over SSL, etc
ExitPolicy accept *:1194 # OpenVPN
ExitPolicy accept *:1220 # QT Server Admin
ExitPolicy accept *:1293 # PKT-KRB-IPSec
ExitPolicy accept *:1500 # VLSI License Manager
ExitPolicy accept *:1533 # Sametime
ExitPolicy accept *:1677 # GroupWise
ExitPolicy accept *:1723 # PPTP
ExitPolicy accept *:1755 # RTSP
ExitPolicy accept *:1863 # MSNP
ExitPolicy accept *:2082 # Infowave Mobility Server
ExitPolicy accept *:2083 # Secure Radius Service (radsec)
ExitPolicy accept *:2086-2087 # GNUnet, ELI
ExitPolicy accept *:2095-2096 # NBX
ExitPolicy accept *:2102-2104 # Zephyr
ExitPolicy accept *:3128 # SQUID
ExitPolicy accept *:3389 # MS WBT
ExitPolicy accept *:3690 # SVN
ExitPolicy accept *:4321 # RWHOIS
ExitPolicy accept *:4643 # Virtuozzo
ExitPolicy accept *:5050 # MMCC
ExitPolicy accept *:5190 # ICQ
ExitPolicy accept *:5222-5223 # XMPP, XMPP over SSL
ExitPolicy accept *:5228 # Android Market
ExitPolicy accept *:5900 # VNC
ExitPolicy accept *:6660-6669 # IRC
ExitPolicy accept *:6679 # IRC SSL
ExitPolicy accept *:6697 # IRC SSL
ExitPolicy accept *:8000 # iRDMI
ExitPolicy accept *:8008 # HTTP alternate
ExitPolicy accept *:8074 # Gadu-Gadu
ExitPolicy accept *:8080 # HTTP Proxies
ExitPolicy accept *:8087-8088 # Simplify Media SPP Protocol, Radan HTTP
ExitPolicy accept *:8332-8333 # BitCoin
ExitPolicy accept *:8443 # PCsync HTTPS
ExitPolicy accept *:8888 # HTTP Proxies, NewsEDGE
ExitPolicy accept *:9418 # git
ExitPolicy accept *:9999 # distinct
ExitPolicy accept *:10000 # Network Data Management Protocol
ExitPolicy accept *:11371 # OpenPGP hkp (http keyserver protocol)
ExitPolicy accept *:12350 # Skype
ExitPolicy accept *:19294 # Google Voice TCP
ExitPolicy accept *:19638 # Ensim control panel
ExitPolicy accept *:23456 # Skype
ExitPolicy accept *:33033 # Skype
ExitPolicy reject *:*

```

- Start and enable TOR at boot:

```

echo 'tor_enable="YES"' >> /etc/rc.conf
echo 'tor_user="root"' >> /etc/rc.conf
service tor start

```

◦ **NOTE:** This guide configures the ORPort on 443, so the tor user must be set to root to work properly.

- Fix the permissions of the TOR database directory:

```
chown -R root /var/db/tor
```

- It is also a good idea to sign up to the [tor-announce](#) and tor-relay mailing lists for questions and announcement information.

Resources

- <http://www.bsdnw.tv/tutorials/tor>
- <https://www.torproject.org/docs/tor-doc-relay.html.en>
- <https://blog.torproject.org/running-exit-node>
- <https://trac.torproject.org/projects/tor/wiki/doc/TorExitGuidelines>
- <https://www.torproject.org/eff/tor-legal-faq>
- <https://blog.torproject.org/running-exit-node>
- <https://trac.torproject.org/projects/tor/wiki/doc/TorRelaySecurity>
- <https://gitweb.torproject.org/tor.git/plain/contrib/operator-tools/tor-exit-notice.html>
- <https://wiki.archlinux.org/index.php/tor>

History

#1 - 04/10/2016 08:36 PM - Daniel Curtis

- Description updated

- Status changed from New to Resolved

- % Done changed from 0 to 100

#2 - 04/22/2016 05:06 PM - Daniel Curtis

- Status changed from Resolved to Closed