Student Katie Dillan

Tor Installation and Operation
5/21/18

Part 1. Baseline Testing

View current Tor status: https://check.torproject.org/
Tor status = Blocked at work "Site can't be reached" ERR_CONNECTION_RESET

View current IP address: www.whatismyip.com
IP Address = 54.219.123.227

Go to Google and type "show my ip" (may not work with Tor).
IP Address = 104.129.192.75

Determine address location (geolocate): http://www.ip2location.com/
Address location =   San Francisco, CA

Determine address owner (ISP): https://whois.arin.net/ui/ (or RIPE Whois).
Address owner Name =   Amazon.com

Measure average latency to www.fhda.edu (use ping –t command)

Average latency = timed out through ping but can launch on browser

```
C:\Users\kadillan>ping -t www.fhda.edu

Pinging www.fhda.edu [153.18.96.155] with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Request timed out.
```

Average latency = 12.6 ms (smcu.org)

```
C:\Users\kadillan>ping -t www.smcu.org

Pinging www.smcu.org [63.200.134.5] with 32 bytes of data:
Reply from 63.200.134.5: bytes=32 time=11ms TTL=43
Reply from 63.200.134.5: bytes=32 time=14ms TTL=43
Reply from 63.200.134.5: bytes=32 time=13ms TTL=43
Reply from 63.200.134.5: bytes=32 time=13ms TTL=43
Reply from 63.200.134.5: bytes=32 time=12ms TTL=43
```

Perform speedtest: http://speedtest.att.com/speedtest/
Or, use: http://www.bandwidthplace.com
Download = 4.75 Mbps
Upload = 4.2 Mbps

Ping = 6 ms

Part 2. Documentation Review

Visit Tor site: https://www.torproject.org/

Read Overview document (About Tor)

Read documentation entitled Want Tor to Really Work?
https://www.torproject.org/download/download-easy.html.en#warning

From Home, scroll down to Our Projects, select Tor Browser

Under Stable Tor Browser select Windows English version, click Save File to start the download

Part 3. Tor Installation

Find the Tor .exe in Downloads, double click to run

Perform installation using the default parameters

Select "connect directly to the Tor network"

Part 4: Tor Operation and Testing
Note: Page loads will be much slower than normal and some sites will not respond to requests from Tor.

Open Tor browser, verify Green onion in the upper left corner

Open Privacy and Security Settings, set Security Level to Medium-Low

View current Tor status: https://check.torproject.org/
Tor status = Successful
What does your IP address appear to be?

Verify IP address: www.whatismyip.com
IP Address = 199.249.223.75

Check IP address again, open Google, type "show my ip" (may not respond)
IP Address = not given

Note: your IP address may be changing while using Tor.

Click the down arrow next to the Green Onion in the top left corner.
What is the last country on the Tor circuit? France

Using a Surface Web browser, determine IP address location: http://www.ip2location.com/
Address location = 89.234.157.254
Does this match the last country on the Tor circuit? yes

Using a Surface Web browser, verify IP address location: http://www.traceroute.org
Select USA, select Cogent, Select Test IPv4 Trace, enter IP address, observe last Country Code.
Address location = Saint Martin Bellevue, France, last country code MRS for Marseille, Fr
Does this match the last country on the Tor circuit? Yes

Using a Surface Web browser, determine address owner: https://whois.arin.net/ui/
You may be referred to a different Organization (i.e., RIPE).
Address owner Name = RIPE Network Coordination Centre
What is the country code? NL

Using the Tor browser, try to perform a speed test using the following sites (may not respond):
http://speedtest.att.com/speedtest/
Or, http://www.bandwidthplace.com
Download = 3.48Mbps
Upload = 3.15Mbps
Ping = 8ms
How does this compare to the initial Baseline test?
slower

Visit common websites, what is the response time?
Tried Fhda but timed out. Ran out of time for other sites
Visit Facebook Onion site (note unique URL): https://www.facebookcorewwwi.onion/
Note: You arrived at Facebook anonymously but if you login they will know who you are.

If time allows, close the Tor browser, reopen and repeat the location test steps. You should
receive different results.

Part 5. Tor Removal

Delete Tor Folder

Uninstall Tor Application

Delete Tor Download

Empty Recycle Bin