

The background features a dark blue gradient with a subtle pattern of white dots. Overlaid on this are several white circular and semi-circular lines of varying thicknesses, some with arrows indicating direction. A prominent feature is a large circular scale on the left side, with numerical markings from 140 to 260 in increments of 10, arranged in a clockwise arc. Other smaller circular elements are scattered across the frame, some resembling loading indicators or progress bars.

DIVE INTO LINUX NETWORKING

CREATE A SECURE RASPBERRY PI HOTSPOT

JULY 18, 2015

OBJECTIVES

- Configure a Raspberry Pi Hotspot
- Learn more Linux Networking
- Configure a VPN Tunnel – stretch goal

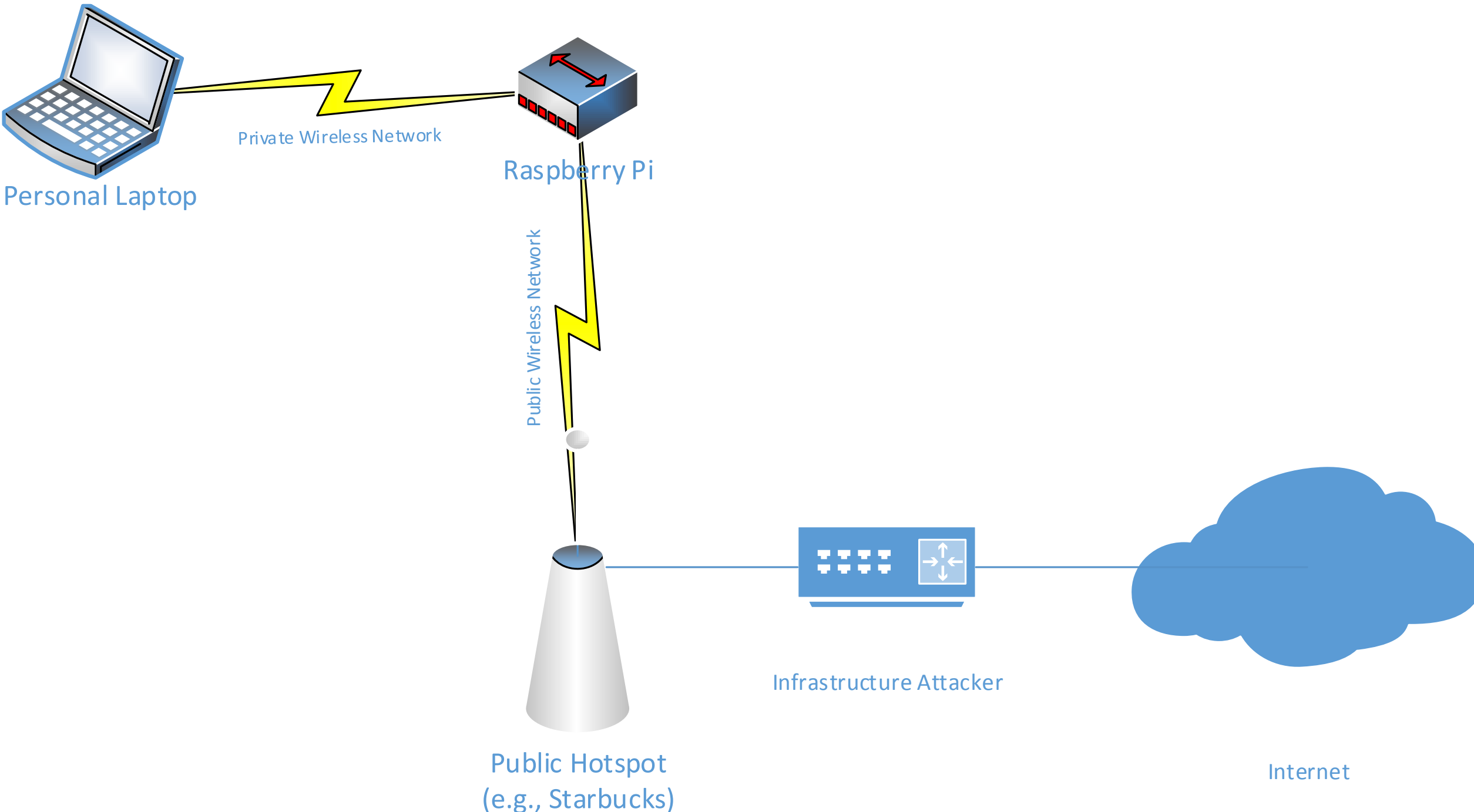
WHY?

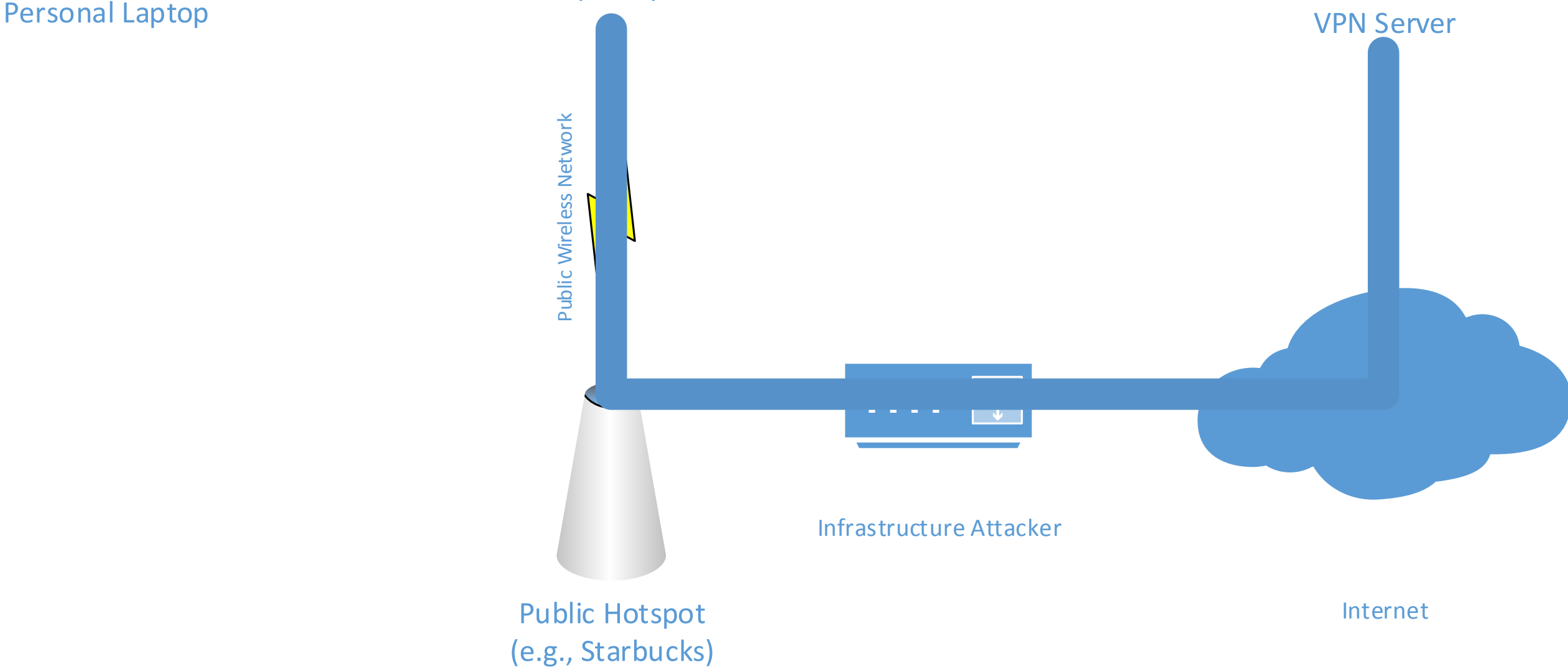
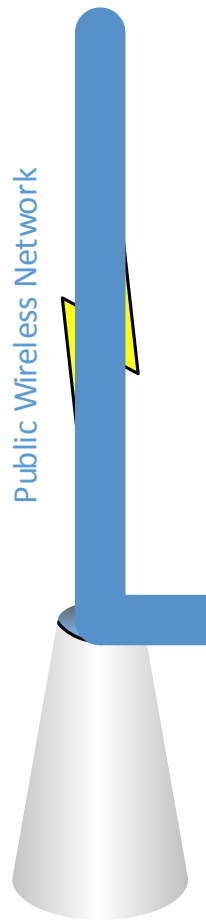
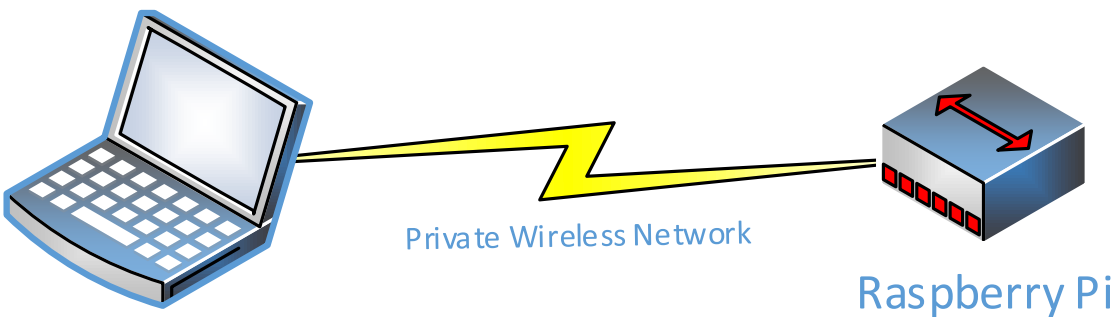
Linux Networking

- Linux networking is a mystery to most
- Can be intimidating to configure
- Can be difficult to troubleshoot
- Combines several knowledge areas

Secure Hotspot

- A platform to learn Linux networking
- Protect your privacy when in public
- Begin learning about cyber security





ANALYSIS

Protected

- Infrastructure Attacker
- Local TLS Certificate Spoofing

Not Protected

- Wireless Attacker
- Destination Attacker

MAJOR STEPS – RASPBERRY PI HOTSPOT

- Configure Multiple Network Adapters
- Configure Hotspot
- Configure DHCP and DNS
- Configure Routing

MAJOR STEPS – VPN TUNNEL

- Configure VPN Client
- Update Routing

LET'S GET ON THE RASPBERRY PI



CREDITS

- Based on “Browse Anonymously with a DIY Raspberry Pi VPN/TOR Router”, authored by Tony Gaitatzis, published in Make Magazine
 - Check out <https://getnetninja.com/> (I can't tell if this is still produced)