<u>Living with Technology – Keeping your Home Secure</u>

By Dave Quartarolo

Who am I?

- Information Systems Security Engineer
- 2019 Sans Institute's Cyber Fast Track Finalist
- Wilmington University Graduate
- Member of Epsilon Pi Tau (Delta Lambda Chapter)
- US Navy Submarine Veteran
- Guy that spends too much time at home
- Husband and Father













Disclaimer

This presentation was prepared by David Quartarolo in his personal capacity. The opinions expressed within it are the speaker's own and do not necessarily reflect the perspectives of his employer Sectigo. The speaker is here on his own accord.

Topic

What This Is

- An Overview of the current threat landscape
- Common sense changes you can make in your home

What This Isn't

- Unnecessary Doom and Gloom
- Unrealistic Claims that your home network will ever be safe
- Tons of work that you don't have time for



Security vs Privacy

Security

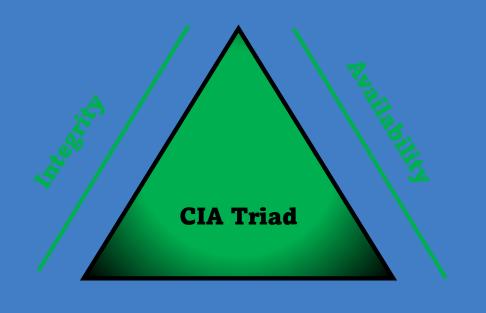
- Keeping our data safe
- Ensuring that all our devices are working
- Guarantee that the digital workforce on the home front can accomplish work



Privacy

- Prevent details about people in the house from being captured
- Prevent meta data (data about data) from being captured

What has changed??



Home Networks are not longer optional

Ransomware is EVERYWHERE

Confidentiality

The Stakes

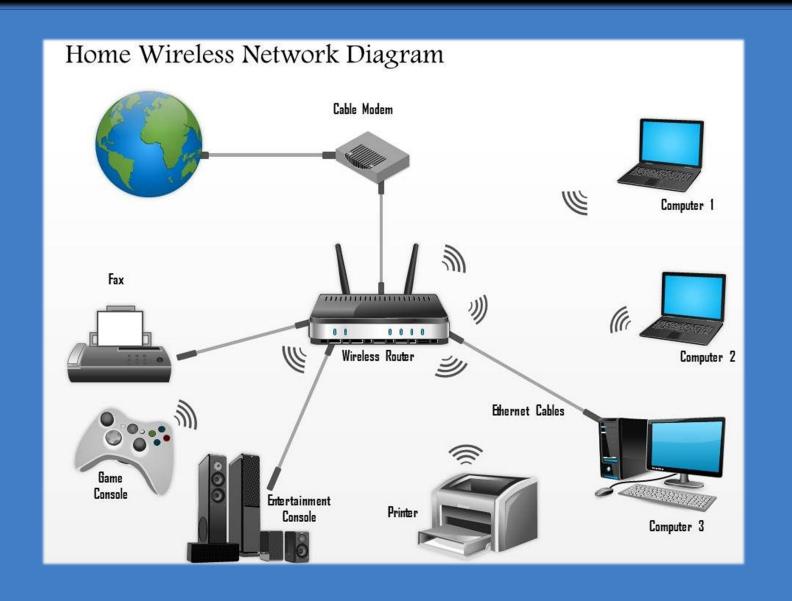
- Home Photos / Movies
- Your Documents and Projects
- Family and Financial Records
- The Use of Your Devices
- Your Time
- Your Identity
- Legal Issues







Home Networks



Home Router Config

- 1) Disable UPnP
- 2) Disable File Sharing
- 3) Change Admin Passwords
- 4) Check for open ports
- 5) Disable Unnecessary Features



```
Starting Nmap 7.91 ( https://nmap.org ) at 2021-09-16 23:16 Eastern Daylight Time
Imap scan report for sans.edu (45.60.31.34)
Host is up (0.043s latency).
Other addresses for sans.edu (not scanned): 45.60.103.34
Not shown: 716 filtered ports
       STATE SERVICE
25/tcp open smtp
       open domain
       open http
81/tcp open hosts2-ns
32/tcp open <u>xfer</u>
33/tcp open mit-ml-dev
84/tcp open ctf
85/tcp open mit-ml-dev
        open kerberos-sec
        open su-mit-tg
       open dnsix
       open metagram
l00/tcp open newacct
889/tcp open ldap
443/tcp open https
144/tcp open snpp
445/tcp open microsoft-ds
500/tcp open isakmp
554/tcp open rtsp
555/tcp open dsf
87/tcp open submission
31/tcp open ipp
36/tcp open ldapssl
777/tcp open multiling-http
 00/tcp open mdbs_daemon
01/tcp open device
343/tcp open unknown
80/tcp open unknown
88/tcp open accessbuilder
```

Home WiFi Configuration





DO

- 1) Change SSIDs and Passwords
- 2) Turn Off WPS
- 3) WPA2 or WPA3
- 4) Use a Guest Network

DO NOT

- 1) Stop Broadcasting or "hide" your SSID
- 2) Use a Wireless Repeater

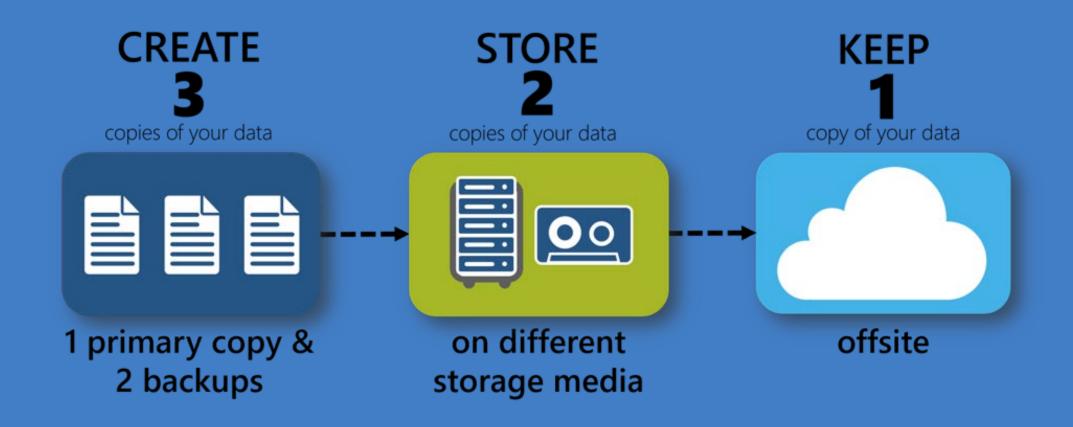
PCs





- 1) Install Updates
- 2) Remove unused Applications
- 3) Power Down at the End of the Day
- 4) Stay on Reputable sites
- 5) Lock your screen
- 6) Enable Window's Defender

Back Up Everything



The Problem with IoT



'End of Sales' vs 'End of Support'

End of Sales

The last day the manufacturer will sell the product.

End of Support

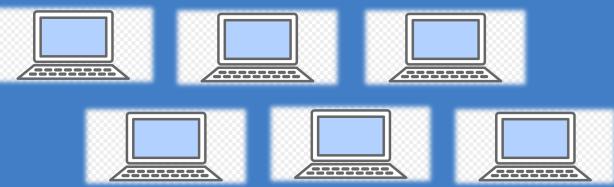
The date when the manufacturer will release security updates.

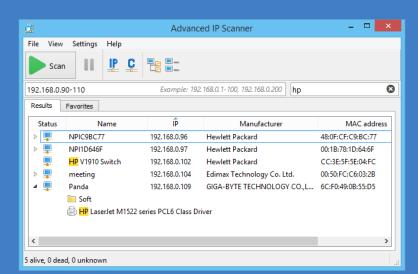




What is on your network?











Kids are the WORST (at security)







Home Network Tuneup

- 1) Install Updates
- 2) Update Passwords
- 3) Spot-check Inventory
- 4) Talk to your Family

Every 2 Months



CALL TO ACTION

- Spread the word.
- Help people in your life make better home network choices.



Thanks so much for attending!

Questions?



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