El Camino Installing New Next-Generation Cisco Firepower Firewall

- This is a momentous occasion for ECC. For the last three years ECC has been suffering from an aging, end-of-life Cisco ASA firewall
- Even though we have a 10GB connection out to the internet we were limited to the bandwidth chokepoint of the old firewall – a 1GB throughput limitation
- The situation was made even worse when the campus WiFi was upgraded to the new Dell/Aruba system – absolutely crushing whatever minimal bandwidth was still available
- The new firewall is so robust that it will easily serve ECC’s needs well into the future – it is data center-grade hardware
- Even if we expand to 40GB on our line-speed in the future, the next-gen firewall is easily upgradable and can handle a variety of upgrades
- Now that the traffic has been transferred completely to the next-gen unit, you should see a remarkable improvement in bandwidth – something I’m sure we all can appreciate!

External News

What is the U.S. Government doing regarding Cybersecurity?
Several new cybersecurity funding bills were proposed by the Senate Appropriations subcommittee

- The Homeland Security Department would receive an $86 million boost in cybersecurity money over the Trump administration’s request
- The $1.1 billion cybersecurity appropriation includes $406 million for a collection of intrusion detection and prevention systems known as Einstein, and a $47 million boost over the administration’s request for Continuous Diagnostics and Mitigation, or CDM, a suite of vetted cybersecurity tools and services that Homeland Security offers across the government
- A bipartisan Senate duo introduced legislation aimed at preventing companies like Kaspersky, Huawei and ZTE from worming their way into government supply chains
  - The bill from Sens. Claire McCaskill, D-Mo., and James Lankford, R-Okla., would establish an interagency Federal Acquisition Security Council to study cyber threats to government supply chains and develop rules to mitigate them
  - On June 27th, the House Small Business Committee assembled for a hearing about cyber risks the Chinese tech giant ZTE poses to American small businesses
- Also on June 27th, the House Science Committee congregated to discuss the threat of phony cell towers, AKA IMSI catchers and stingrays

### Data Breach Watch

**U.S. Higher Education Breaches for June 2018:**
- Notre Dame de Namur Univ.

**Other Significant U.S. Breaches:**
- Ticketfly
- MyHeritage
- Dignity Health
- Chicago Public Schools
- Bithumb
- Med Associates (NY)
- TaskRabbit
- Click2Gov – Midwest City, OK
- Exactis
- Ticketmaster
- Adidas

### Tip of the Month

**Home VPN Services**

- Why would I need a VPN service?
  - With all of the Facebook, Yahoo, 21and Me, Forever 21, and other major cyber breaches in the news lately, your data is more at risk now than at any other time in history!
  - Companies as well as intelligence agencies are tracking your every move online
With that being said, the question should really be – why WOULDN’T I use a VPN service?!?!

- What does a VPN service do?
  - One common method for protecting yourself online is the use of a Virtual Private Network - or VPN for short. It allows you to safely send information (in an encrypted tunnel) when using public networks via a group of networked computers and servers spread throughout the world. Not all VPNs are the same, however, and free services and apps should generally be avoided.
  - A VPN service is compatible with all browsers and should be used whenever connecting to the internet to mask your identity & location as well as your private personal and financial information.

Here are the top recommended VPN services:

<table>
<thead>
<tr>
<th>Name</th>
<th>Monthly/Yearly</th>
<th># Servers</th>
<th># Server Locations</th>
<th>Supported Clients</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private Internet Access</td>
<td>$7 / $40</td>
<td>3,030+</td>
<td>28 countries</td>
<td>Win, Mac, Linux, iOS, Android</td>
<td></td>
</tr>
<tr>
<td>TorGuard</td>
<td>$10 / N.A.</td>
<td>3,000+</td>
<td>55+ countries</td>
<td>Win, Mac, Linux, iOS, Android</td>
<td></td>
</tr>
<tr>
<td>VyprVPN</td>
<td>$10 / $60</td>
<td>700+</td>
<td>70+ countries</td>
<td>Win, Mac, Linux, iOS, Android, Router, TV</td>
<td>Has a premium services also</td>
</tr>
<tr>
<td>NordVPN</td>
<td>$12 / $69</td>
<td>3,714</td>
<td>61</td>
<td>Win, Mac, iOS, Android</td>
<td>Cheaper rates for 2-year contract</td>
</tr>
<tr>
<td>Express VPN</td>
<td>$13 / $99</td>
<td>2,000</td>
<td>94 countries</td>
<td>Win, Mac, Linux, iOS, Android, Router, Blackberry</td>
<td></td>
</tr>
<tr>
<td>ProtonVPN</td>
<td>N.A. / $60 Basic N.A. / $96 Plus N.A. / $300 Vision</td>
<td>14</td>
<td>112</td>
<td>Win, Mac, Linux, iOS, Android</td>
<td>Founded at CERN – also created ProtonMail</td>
</tr>
<tr>
<td>TunnelBear</td>
<td>$10 / $50</td>
<td>1,700</td>
<td>20 countries</td>
<td>Win, Mac, iOS, Android</td>
<td></td>
</tr>
</tbody>
</table>

The above VPN service providers can be found at:
- TorGuard - [https://torguard.net/index.php](https://torguard.net/index.php)
- VyprVPN - [https://www.goldenfrog.com/vyprvpn](https://www.goldenfrog.com/vyprvpn)
- NordVPN - [https://nordvpn.com/features/](https://nordvpn.com/features/)
- ExpressVPN - [https://www.expressvpn.com/](https://www.expressvpn.com/)
- ProtonVPN - [https://protonvpn.com/](https://protonvpn.com/)
- TunnelBear - [https://www.tunnelbear.com/pricing](https://www.tunnelbear.com/pricing)

**Note:** The above VPN services are intended for personal home use only. If a VPN is needed to connect to the ECC network for conducting campus business while off campus, please call the Helpdesk for assistance @310-660-6571.

**Cyber Security Trivia**
The trivia question for this month is:

- Which of the following is a proper way of erasing data from hard disks before disposing?
  - A. Using the Format command
  - B. Using the Delete command
  - C. Drilling a hole through the drive
  - D. Degaussing the drive

- Email your answer to: pyoder@elcamino.edu

Write in with your IT security questions:

If you have any questions about cyber security, please send them to: pyoder@elcamino.edu

All current and previous issues of the Monthly E.C.C. Information Security Briefing are posted online at:
- http://www.elcamino.edu/about/depts/its/techservices/infosec.aspx

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