Cybersecurity in the 21st Century

Or….

The Internet – a *Bad* Neighborhood

Is the Internet *Really* That Bad a Neighborhood?

Ask Colonial Pipeline, Inc.

Is the Internet Really That Bad a Neighborhood?[1]

- Phishing Accounted for 80% of cyber incidents
- Ransomware attacks were up 435% over 2019
- 46% of organizations have had at least one employee download a malicious mobile application[2]
- Netscout, Inc. identified 4.38M Denial of Service attacks in first half 2020
  - 26K per day
  - 18 per minute

Note 1: Data taken from “Alarming Cybersecurity Stats: What You Need to Know for 2021” by Chuck Brooks, ***Forbes***, 2 March 2021

March Risk Metrics

❑Firewall

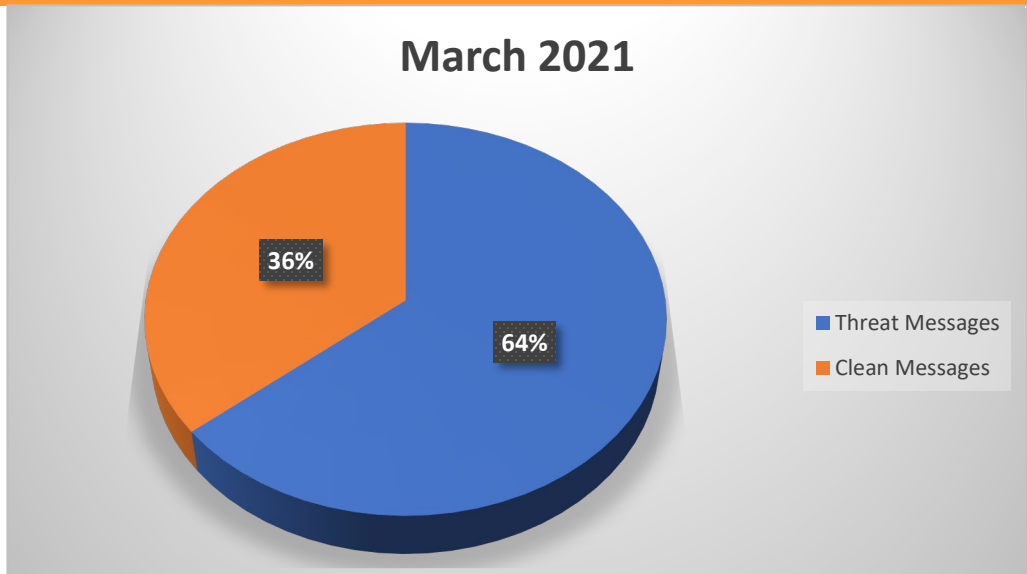
- Threat Blocks this month: **1,413,550**

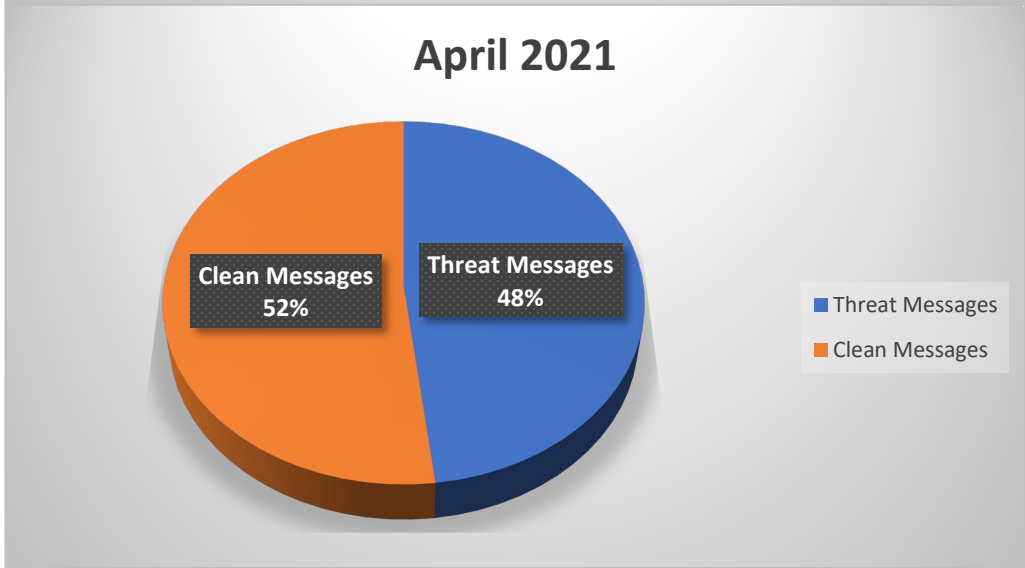
☐Outbound Internet Risks

- Total Blocked Threats this month: **159,074**
- Total Blocked Threats this year thus far: **911,838**

☐ Email Risks Identified and Blocked

- Total Emails for March: **70,307,749**
- Total Emails for April **42,120,601**





The Feds & Their Requirements…

- NIST 800-171
- NIST 800-53
- Cybersecurity Maturity Model Certification (CMMC)

How We Protect The Auburn Community From Bad Neighbors

- **What You Can Do – On Campus and At Home**
  - Remember Cybersecurity is Everyone's Responsibility, protect yourself, protect Auburn.
  - Take 2FA Authentication seriously, if you authorize when you did not initiate, you just let someone into your systems
  - Watch out for emails, do not click on that link and only open attachments from known sources.
  - Lock your door, don't store sensitive information
  - Contact cybersecurity at infosec@auburn.edu with questions

- **What Cybersecurity is Doing to Protect the Campus**
  - Firewalls for your Desktop and Campus Services
  - VPN – Assures your traffic is safely transported from your machine to/from campus
  - 2Factor – Verifies your identity
  - Automated Scanning for vulnerabilities and sensitive data
  - Automated Blocking Based on Vender Malware Subscriptions (Email and Web)

- **Security Operations Center Mission – "identify quickly, react effectively, minimize impact"**

Cost of Cyber Insurance

- **Cybersecurity Insurance Policy Premiums Skyrocketing**
  - Present - $10M Coverage, $250K deductible, costs Auburn $140,172/Year
  - What our colleagues are seeing: 3X to 4X Deductibles, Cost increases 20% - 50%, some see Ransomware excluded from coverage

- **Ways to Mitigate Cost Increases**
  - 2FA
  - VPN
  - Restrict administrator rights on workstations
  - Vulnerability Assessments
  - Penetration Testing
  - Recurring Training; Education and Awareness
  - Vendor Management and Assessment (refers to issues such as Blackbaud and Solarwinds)

Balancing Cybersecurity and Privacy

- **Division of Institutional Compliance and Privacy (DICP) – manages the Electronic Privacy Policy**
  - Governs who sees what, when, and under what circumstances
  - There is a process for addressing privacy issues on a case-by-case basis. Legal Office and DICP are OPRs.
  - OIT takes no action unless authorized by Legal and DICP
- **Email Privacy – details from the Auburn Privacy Policy**
  - Personnel charged with the management of e-mail and network resources will avoid viewing information not intended for them, but it should be understood that such information may be visible in their normal course of work.
  - Personnel charged with the management of e-mail and network resources may in the normal course of their work be required to advise the individual, or the individual's supervisor, of computer or network activity that is having a negative impact on University IT resources.
  - Personnel charged with the management of e-mail and network resources may in the event of a suspected breach or exposure, utilize automated tools to locate and delete emails that compromise data security
  - If PII is located within the system files, DICP will be notified.
- **If You Have Concerns about Privacy**
  - "Individuals having concerns about the confidentiality of their personal non-work-related communications or data are encouraged to use non-AU IT resources for those purposes."