



Coast Guard Academy Awareness Training mposium

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US Coast Guard Academy



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B. S. Cyber Systems

96 Cadets



USCGA Cyber Council
Activities

1075 Corps-wide

Cadet Summer
Training





2/c Cadet(Junior)

3/c Cadet

(Sophomore

4/c Cadet (Freshman)











Why Cyber Defense Training?

STATISTICS

Threats from cybersecurity continue to evolve rapidly. Since the 2015 strategy, evolving technology has empowered users with sophisticated tools to increase productivity; meanwhile, cyber attacks on the same technology have continued to evolve in tandem. As the backbone of the United States' economy, the Marine Transportation System (MTS) is a prime target for malicious cyber actors who seek to disrupt our supply chain.

CYBER ENVIRONMENT CHANGES SINCE 2015 STRATEGY



39 second

Every 39 seconds a hacker attack on average 2,244 times per day.



was the average cost



records were exposed by data breaches in the first half of 2020.



207 days

is the average time it took to identify a breach in 2020.



was the average lifecycle of a breach.



related to cyber crime is projected to hit annually by 2025.

THE MARINE TRANSPORTATION SYSTEM

25,000 miles of coastal and inland waterways, serving 361 ports, 124 shipyards, over 3,500 maritime facilities, 20,000 bridges, 50,000 Federal aids to navigation, and 95,000 miles of shoreline that interconnect with critical highways, railways, airports, and pipelines, and undersea cables carrying 99% of U.S. communications abroad.



\$5.4 trillion

Approximately \$5.4 trillion flows through the MTS, constituting about 25% of the United States' gross domestic product.



of U.S. imports enter and exports exit by ship.



500 +

major operational technology cyber-attacks occurred in the marine industry in 2020.



- Cadets will receive cyber security training and participate in hands-on exercises to reinforce material.
- Interactive Training to expose Cadets to Coast Guard Cyber Security Strategy.
- Expose Cadets to live malware and experience the effects of poor cyber hygiene in a safe a segregated network environment.



USB Device Security





Internet
Security
&
Passwords



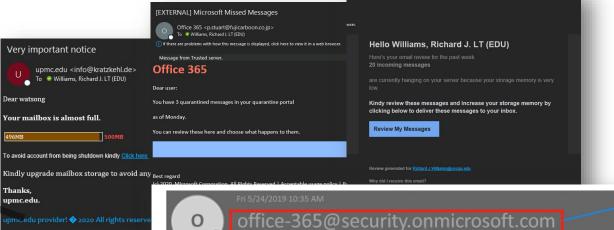




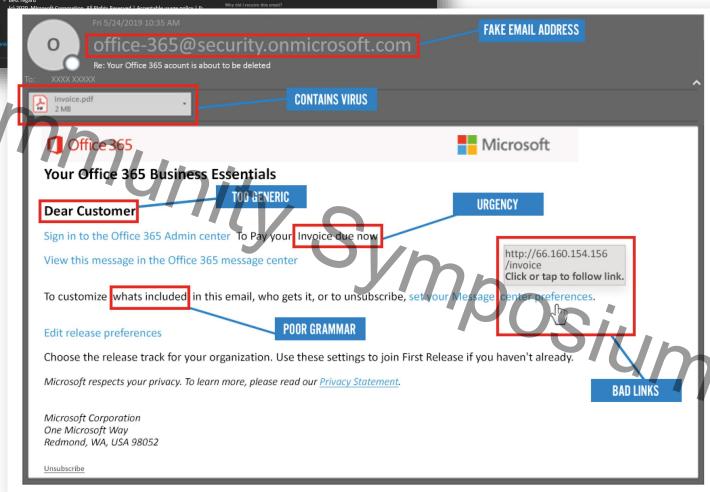




Phishing Campaign











Successes and Future Goals

Successes –

- Strive for hands on as much as possible
- ✓ Move frequently
- ✓ "Magic tricks" are impactful
- ✓ End the day with a CTF

Future Goals –

- O How do we measure success?
- Export to local/CAE community
- Expand topics, maintain relevancy





Questions?

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