



# CyberDIVISION

FEDERAL BUREAU OF INVESTIGATION

## Preparing to Fail

Changing the way we think about cyber threats







## WANTED BY THE FBI

### DMITRY ALEKSANDROVICH DOKUCHAEV

Conspiring to Commit Computer Fraud and Abuse; Suspecting & Transporting Without Authorization for the Purpose of Commercial Advantage and Private Financial Gain; Wiretapping & Computer Through the Transmission of Data and Information; Economic Espionage; Theft of Trade Secrets; Access Device Fraud; Aggravated Identity Theft; Wire Fraud



## WANTED BY THE FBI

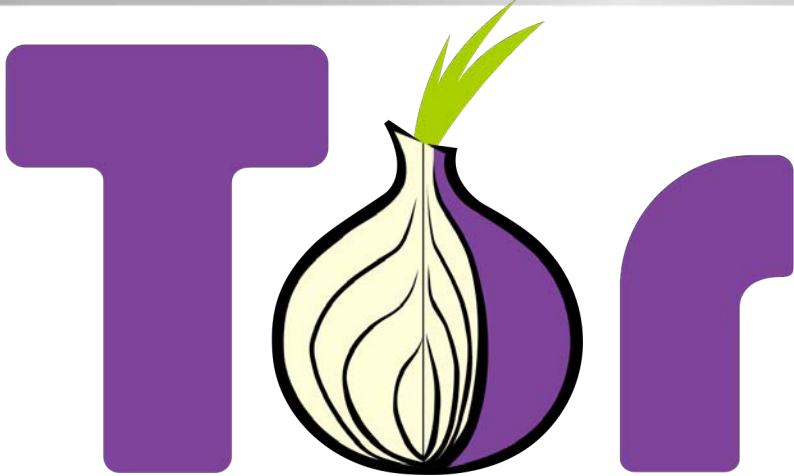
### IGOR ANATOLYEVICH SUSHCHIN

Conspiring to Commit Computer Fraud and Abuse; Suspecting & Transporting Without Authorization for the Purpose of Commercial Advantage and Private Financial Gain; Wiretapping & Computer Through the Transmission of Data and Information; Economic Espionage; Theft of Trade Secrets; Access Device Fraud; Wire Fraud

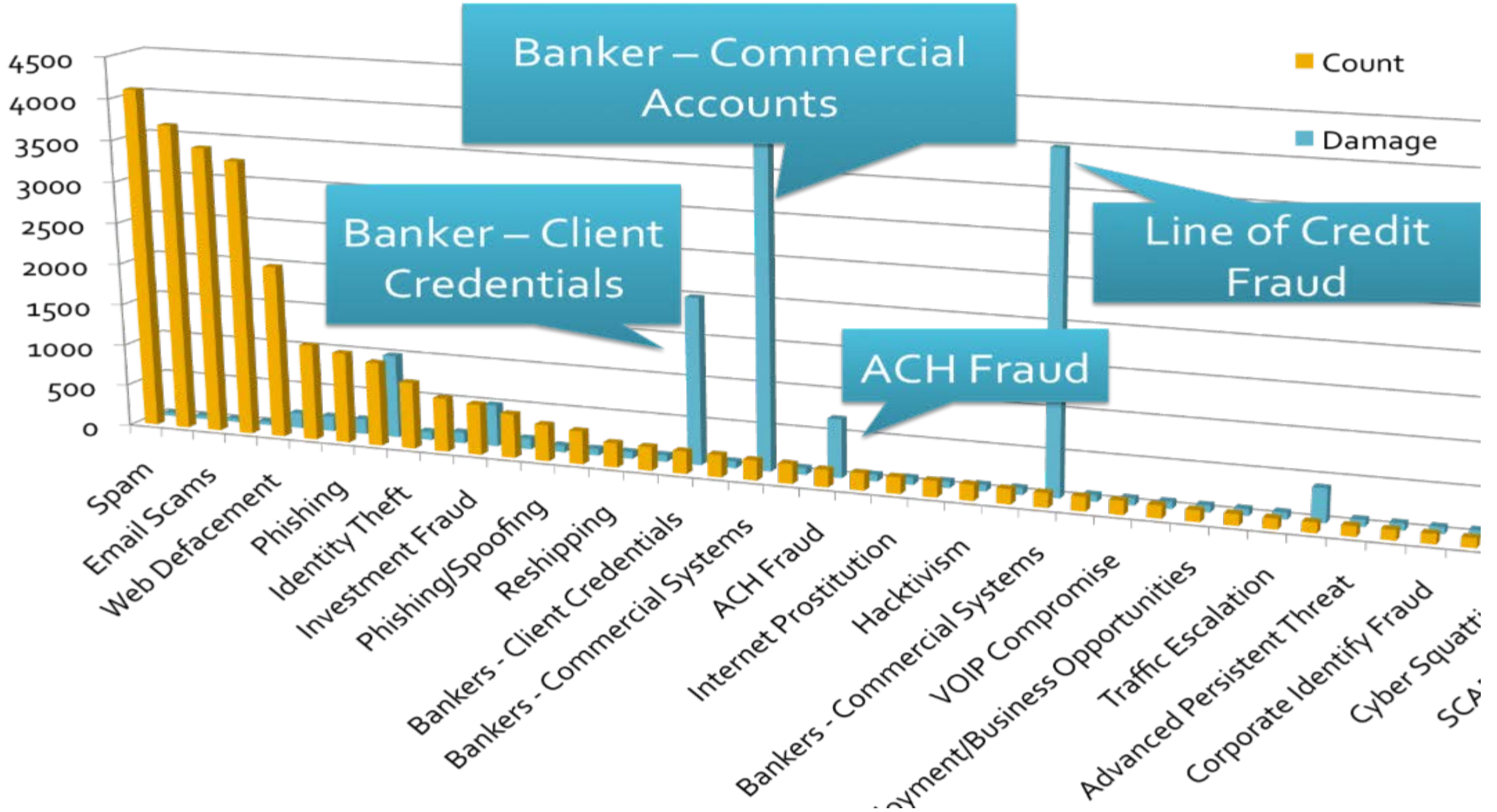


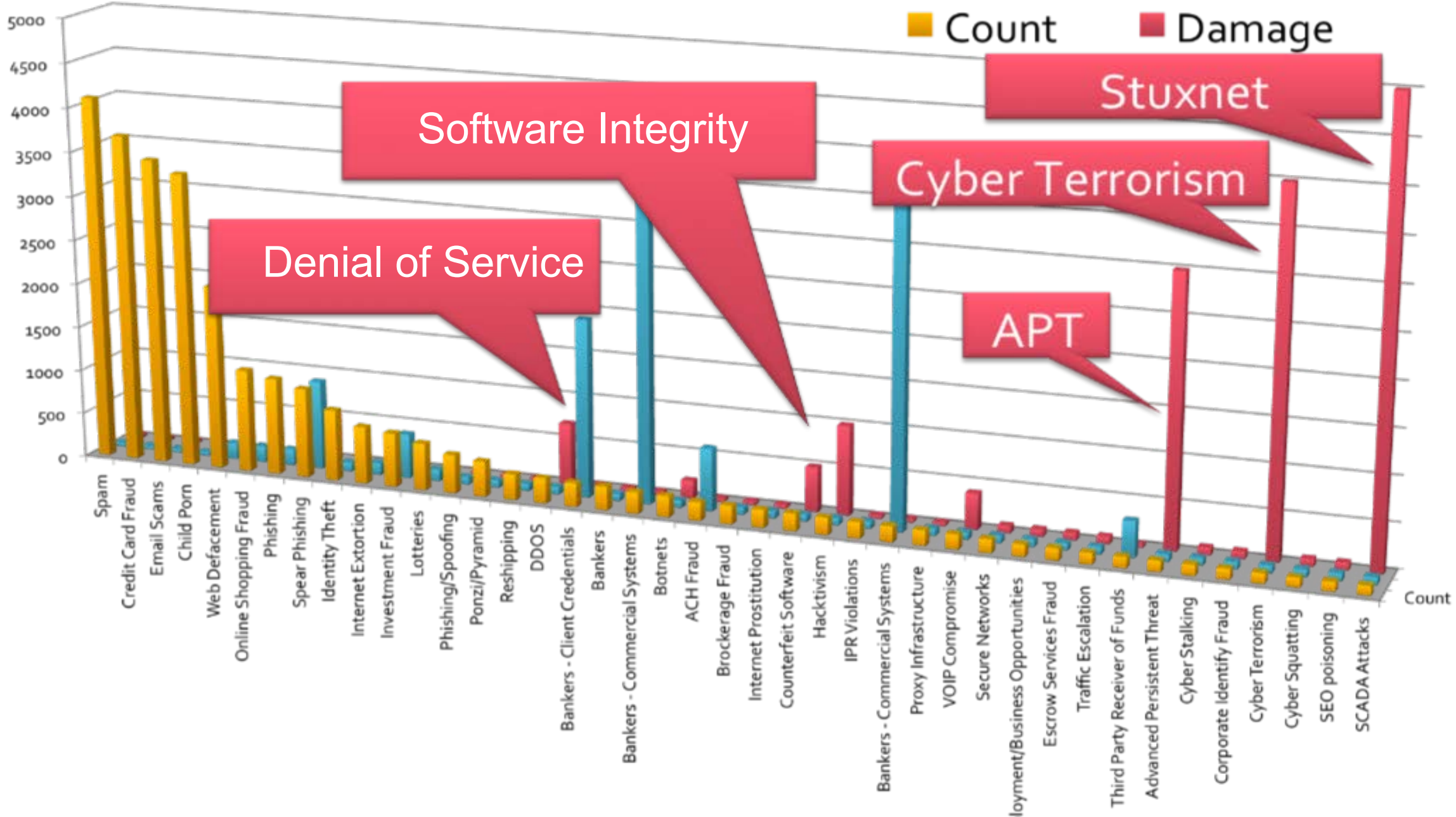
DESCRIPTION

# The current state of cyber underground









# Specific threats to the Packaging Industry



# Lucky

Delivered Right to Your Inbox



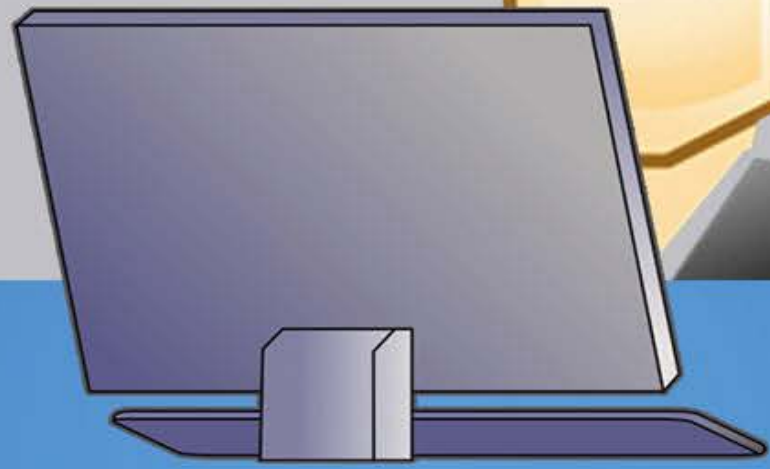


**E-MAIL**  
From: Finance Director  
SUBJECT: Initiate Acquisition

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# Primary Schemes

Name	Scheme
Supplier Swindle	The “supplier” changes receiving bank accounts
CEO Fraud	The “CEO” requests an payment for an acquisition or service
Shipping Switch-up	The “receiver” requests a change in shipping destination
3 <sup>rd</sup> Party	The “3 <sup>rd</sup> Party” service requests payment for services rendered
Data theft	Important data is requested for use in tax fraud

UNCLASSIFIED





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FORTUNE

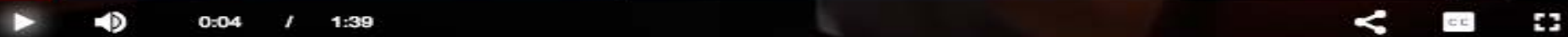
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Proving no one is immune to phishing.

**Turns out even the most powerful tech companies aren't immune to phishing scams**



### MASTERING DATA

# Exclusive: Facebook and Google Were Victims of \$100M Payment Scam

### RELATED CONTENT

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This Startup Rakes on Salesforce

# We must...

- Understand the threats to our company
- Design **specific** mitigation and recovery controls into our business process



# Ransomware

1. Implement the technical controls within email
2. Un-flatten our networks – everyone does not need access to everything in your network
3. Back up, virtualize, and TEST recovery
4. Don't immediately destroy the infected system
5. Explore the payment mechanism



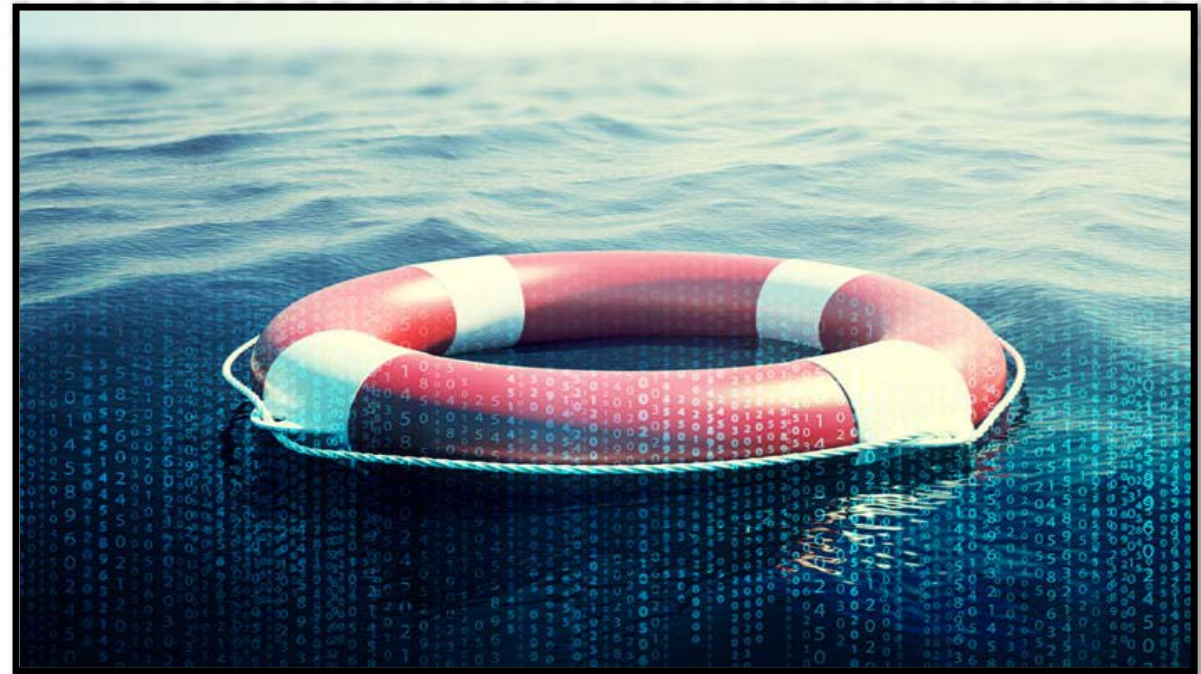
# Business email compromise

1. Implement technical controls in email such as **[external]** tags, webmail auditing
2. Two-factor authentication / Password re-use\*\*\*
3. Educate the specific departments that are often targeted
  - C-Level, Finance, Human Resources, Sales, Shipping
4. Design controls that allow for failure
  - Processes for shipping, payments, acquisitions, employee information
5. Engage your 3<sup>rd</sup> parties, such as banks, consultants, law firms
6. Know who to call when failure happens, have a team in place



# Other considerations

- Cyber insurance
- 3<sup>rd</sup> parties
  - Processes
  - Communication
  - Responsibilities
- Managed services
- Incident Response on retainer
- Practice responding to incidents with the entire team



# Key Take Aways

- If you only remember two things from my presentation, they should be...
  1. Failure will happen
  2. Failure doesn't equal disaster, **mishandling** failure most likely will.
- When you get back to your office, the two things you should do are...
  1. Design your processes and relationships to mitigate failure
  2. **Practice your response**