### TRUADVANTAGE POWER HOUR WEBINARS & WORKSHOP

- "Knowledge is Power"



### ABOUT TRUADVANTAGE









97.2 %





#### #1 RANKED IT & CYBERSECURITY TEAM IN THE BAY AREA













MSPs

2024 EDITION



TruAdvantage is a Bay Area based, award-winning IT firm that specializes in managed IT, managed Cybersecurity, cloud solutions and strategic IT planning. Our passion is to bring enterprise-level productivity, simplicity, scalability, and security to over 100 small to medium businesses who have chosen us as their IT partner.

### Free to our Audience:



Currently, we are offering a completely Free Security Audit and Penetration Test. Take advantage of it here: https://www.truadvantage.com/cyberaudit/



Please send your questions to Kayvan@truadvantage.com



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# Speaker



Kevin Davy
Sr. Systems Engineer,
Barracuda



## Cybersecurity Landscape



2000



2007



2014



2022



2023

Device
Hackers
Perimeter
Attacks

Desktop/Laptop Script Kiddies Controlled Access Intrusive

Mobile Criminal Ecosystem Wide Access Disruptive IoT (Internet of Things)
Hacktivists
Hybrid Cloud
Destructive

Non-State Actors
No Perimeter
Devastating

Metaverse Criminal Ecosystem Malicious A.I. Colossal



# Crime has Changed.







Twitter in data-protection probe after '400 million' user details up for sale

**DATA BREACHES** 

#### **Yum Brands Discloses Data Breach Following Ransomware Attack**

KFC and Taco Bell parent company Yum Brands says personal information was compromised in a January 2023 ransomware

PayPal warns 35,000 customers of exposure following credential stuffing attack

Published Jan. 19, 2023

T-Mobile discloses 2nd data breach of 2023, this one leaking account PINs and more

Hack affecting 836 subscribers lasted for more than a month before it was discovered.

DAN GOODIN - 5/1/2023, 7:40 PM

Sobeys cybersecurity breach brings \$25M net earnings hit



Alicja Siekierska

December 15, 2022 · 2 min read

Hackers demand \$15 million ransom from TransUnion after cracking "password" password

MailChimp discloses new breach after employees got hacked

By Lawrence Abrams



III January 18, 2023



04:11 PM



It is estimated that organizations suffered a ransomware attack every 11 seconds in 2021.

By 2031, it is anticipated that a new attack on a customer or business will occur every 2 seconds.



## Evolution of Ransomware



### RANSOMWARE

is a type of malware that infects your system, then locks or encrypts your data, allowing attackers to ask for a ransom. The attackers will offer to provide the decryption key only if you pay a certain amount of money within a short time.

## Current Threats and Trends



## Barracuda Security Insights

Last Updated: Sep 05, 2023, 09:00 (PST)



Zero-hour advanced threats in previous 30 days

Total: **144,368** 

Email: **137,284** 

Web: **3,226** 

Network: **3,858** 



## End users are frequent targets



of data breaches involved a human element.

82%

## Phishing

is an email scam designed to steal personal information from victims. Cybercriminals use phishing, the fraudulent attempt to obtain sensitive information such as credit card details and login credentials, by disguising as a trustworthy organization or reputable person in an email communication.

## Spear phishing

is a personalized phishing attack that targets a specific organization or individual. These attacks are carefully designed to elicit a specific response from a specific target. Attackers invest time in researching their targets and their organizations to craft a personalized message, often impersonating a trusted entity.



The worldwide information security market is forecast to grow 11.3% to reach more than \$188.3 billion in 2023.

## Different Types of Attacks



Brand impersonation







## Brand impersonation

83% of spear phishing attacks involve brand impersonation.

#### **Effective because:**

- Often includes zero-day links
- Uses compromised accounts
- Appears to come from a trusted business application





## Business email compromise (BEC)

BEC scams accounted for \$1.7 billion of losses to online scams, according to the FBI's annual Internet Crime Report

#### Effective because:

#### **Effective because:**

- Very personalized
- Does not contain malicious links or attachments
- Launched from compromised accounts
- Uses **urgency**, personalization and pressure





## Blackmail

1 in 10 spear phishing emails are sextortion attacks.

#### **Effective because:**

- **Does not contain** malicious links or attachments
- Under reported due to intentionally embarrassing nature of the threats.







# What Damage Can a Successful Attack Do?

- Risk to the business
  - Loss of data
  - Downtime
  - Lost productivity
  - Post-attack disruption
  - Restoration
  - Reputational harm





# What Damage Can a Successful Attack Do?

#### Aftermath

- Computers wiped
- Reverted to pen and paper
- Six weeks to recover
- Lost revenue
- New hardware
- Overtime



# How can you protect yourself?



# Many Tools Are Not Solving The Problem

of malware is delivered via email.

## Use multi-factor authentication (MFA)



Over 1.2 million Microsoft enterprise accounts will be compromised each month, with 99.9 percent of those accounts not enabling MFA.



## Learn how to recognize and report an attack



There is a cyberattack every 39 seconds.

Source: Finntech News



## Use DMARC authentication



# Only 3% of email domains utilize DMARC policies

Source: Agari Cyber Intelligence Division



## Basic cybersecurity hygiene for business

2

3

4

5



Establish what you want to protect



Build concentric rings of security



Monitor your environment

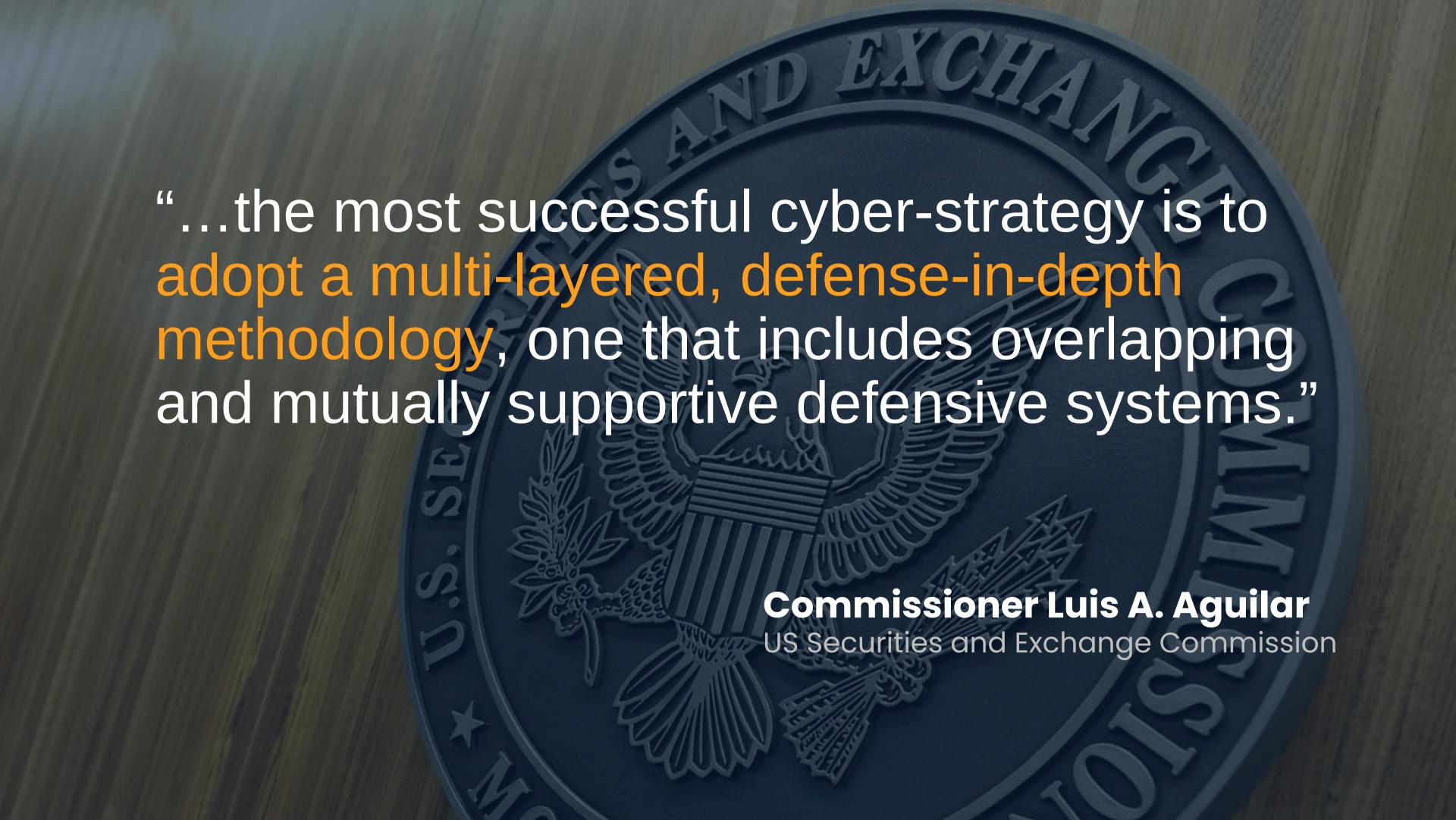


Reduce response time



Secure your people, process, and technology





# What does a multi-layered defense look like?



# Layered Cybersecurity - Defense in Depth

Monitoring

**Email Protection** 

**Application Security** 

**Network Security** 

**Data Protection** 



# Monitor Your Environment

Protect all major attack vectors.

- Enforces essential cybersecurity hygiene
- Protects against sophisticated cyberattacks, including zero-day, supply chain attacks, ransomware, and much more
- 24x7x365 Security Operations Centre
- 40+ integrated data sources





## Next steps

1

Talk to your Managed Service Provider about how you can ensure cyber hygiene across your digital environment

2

Request a free email threat scan of your Microsoft365 inboxes to understand what email-born threats are sitting in your organization's inboxes right now!



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