



The Weakest Link

Understanding the Human Risk



Who Am I?

A father to my two daughters and a husband to my wife

Education:

- Bachelors Degree from BSPU (Belarus) in Computer Science
- Masters Degree from Boston University in Information Security

Experience:

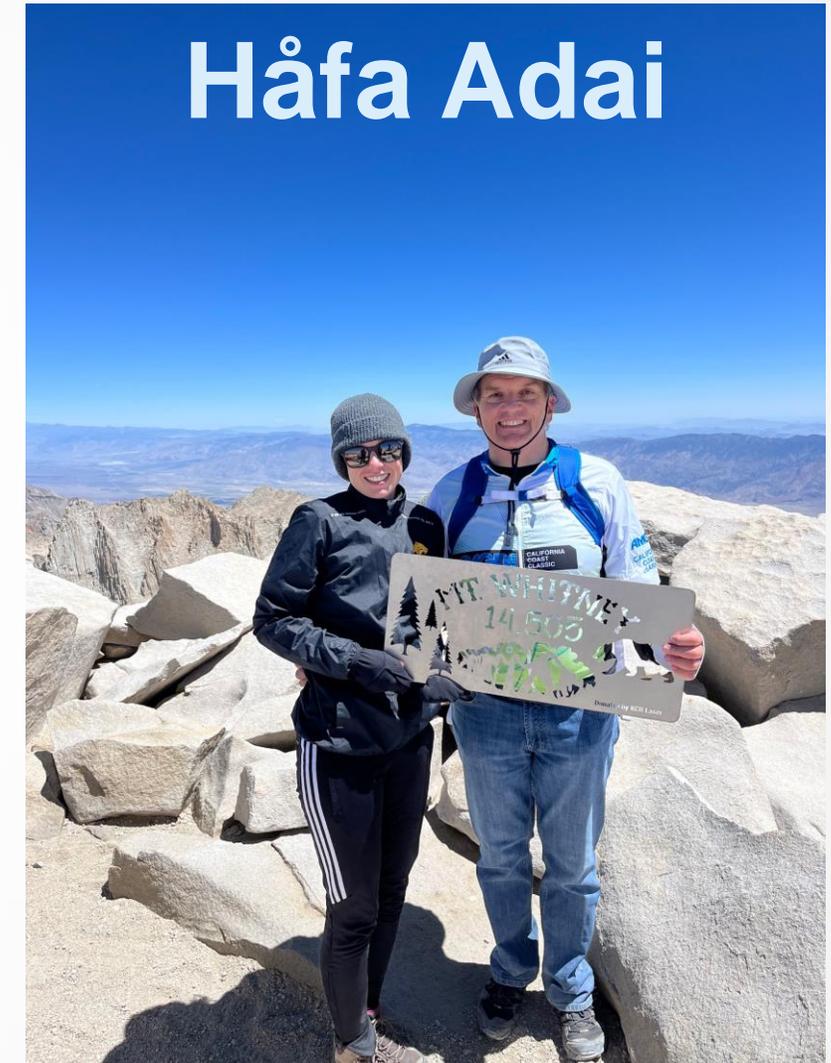
- 30 years of IT and Cyber Security
- Board of Directors Member for H-ISAC (2013-2016)
- Chairman for MRC at FS-ISAC (2016-2020)
- Forbes Technology Council Member
- Managing Cyber Security practice for ISSQUARED Inc

Things I like to do:

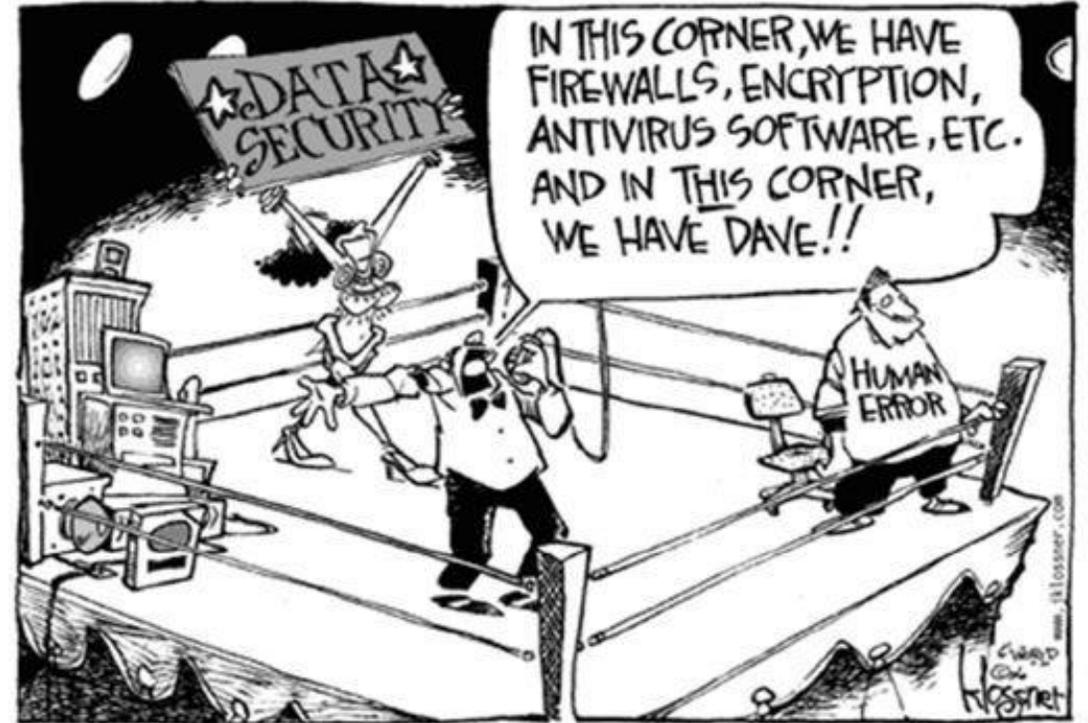
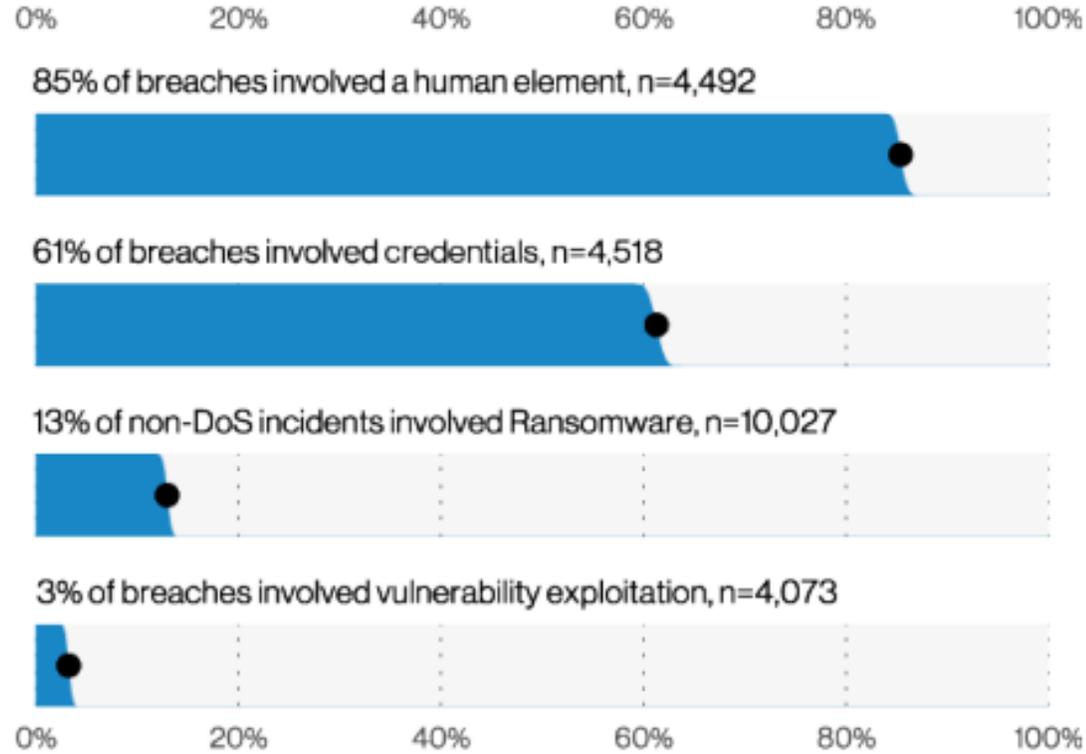
- Cycling
- Hiking
- Phishing 😊

Best way to reach me

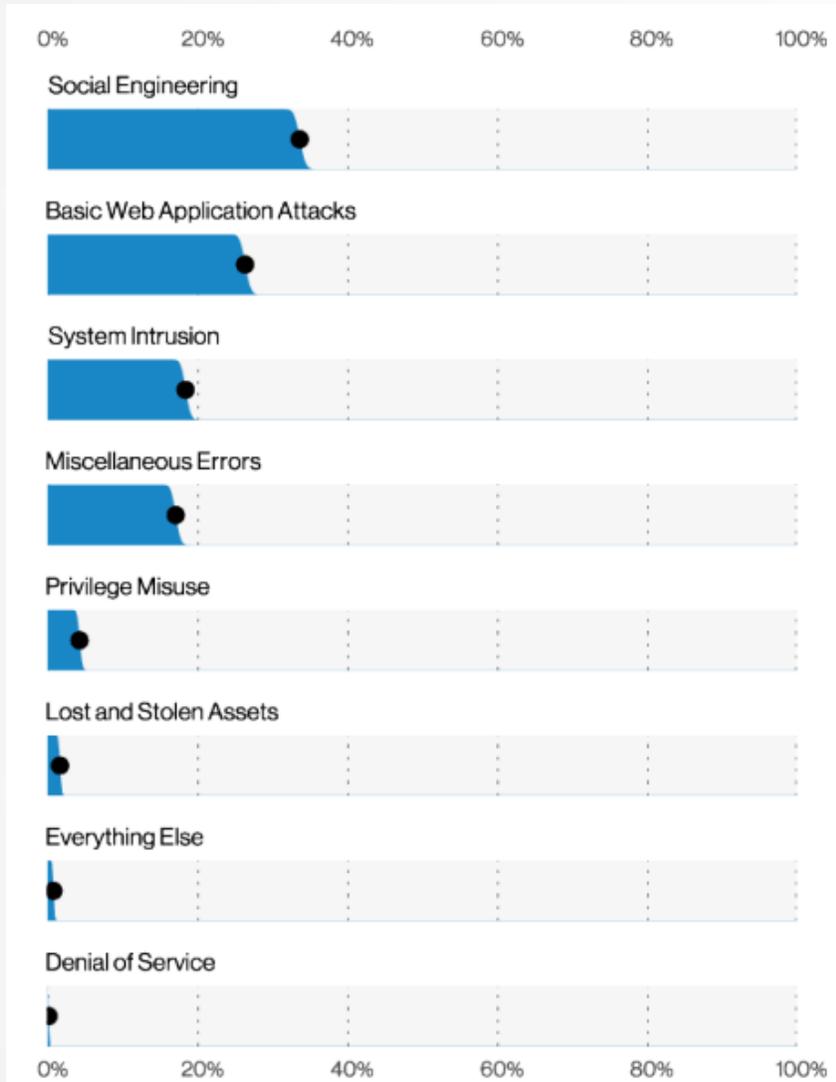
- Nikolay.Chernavsky@issquaredinc.com
- Live Stream “Cyber Talk with Nikolay”



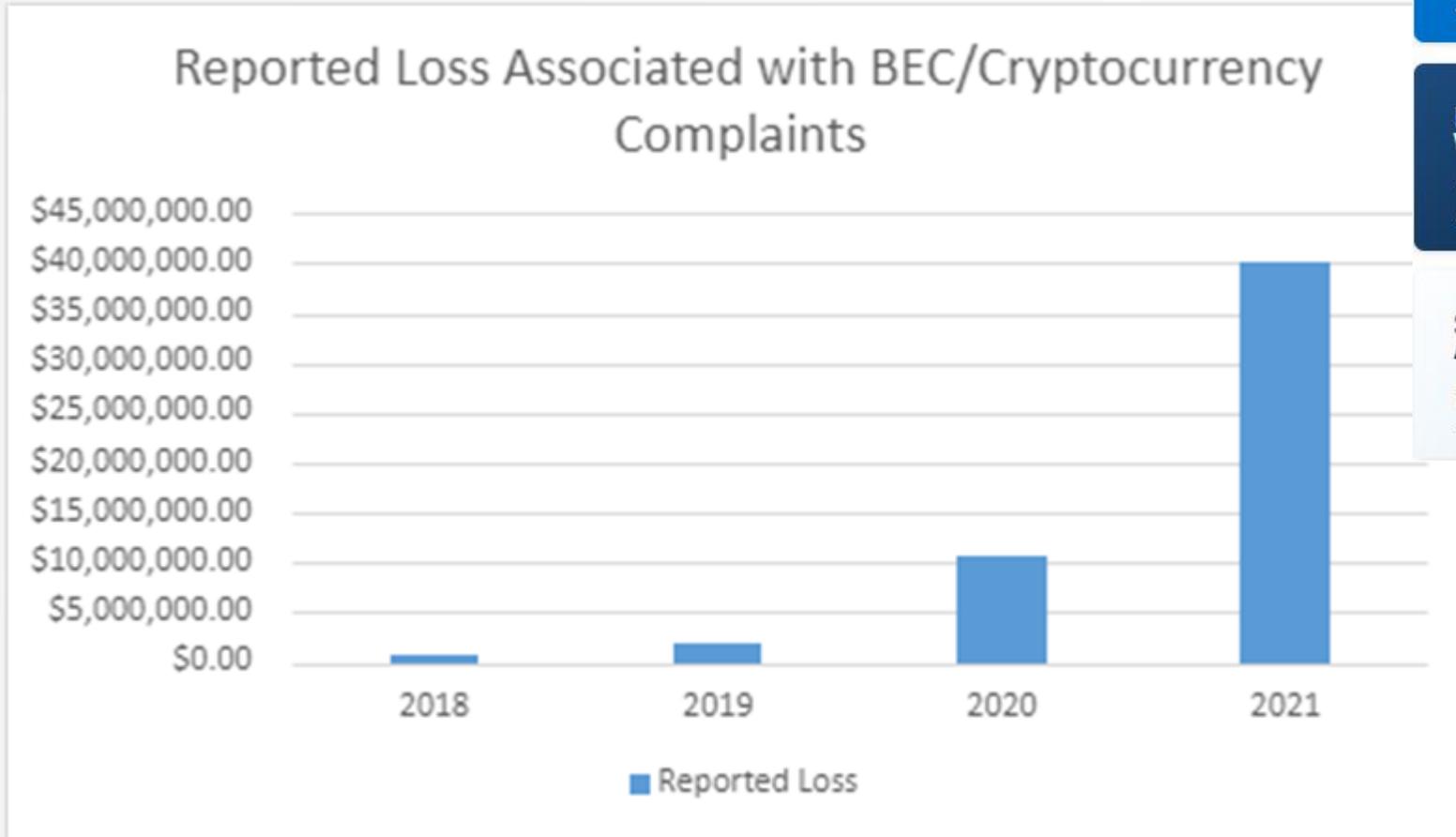
Meet Dave



Data Breaches Patterns



Financial Impact



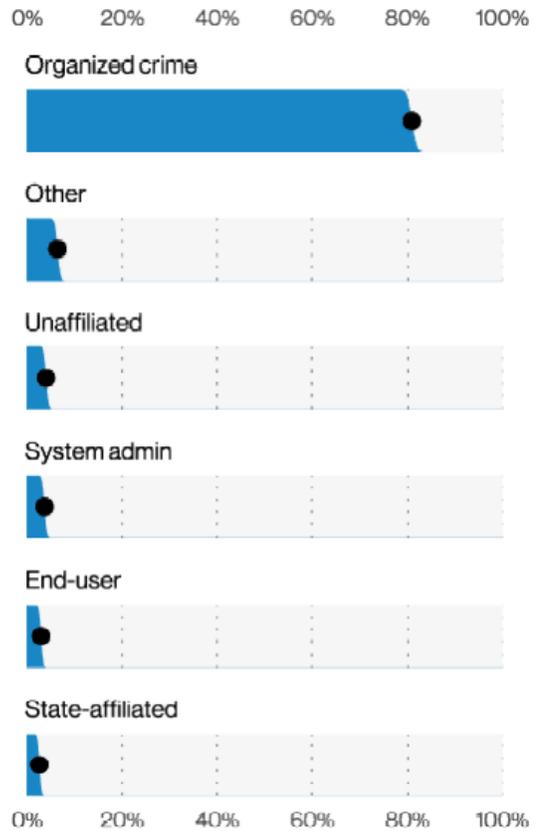
AVERAGE COST OF A DATA BREACH WORLDWIDE
3.86m USD

ESTIMATED VALUE OF CYBER INSURANCE PREMIUMS WORLDWIDE IN 2025
20bn USD

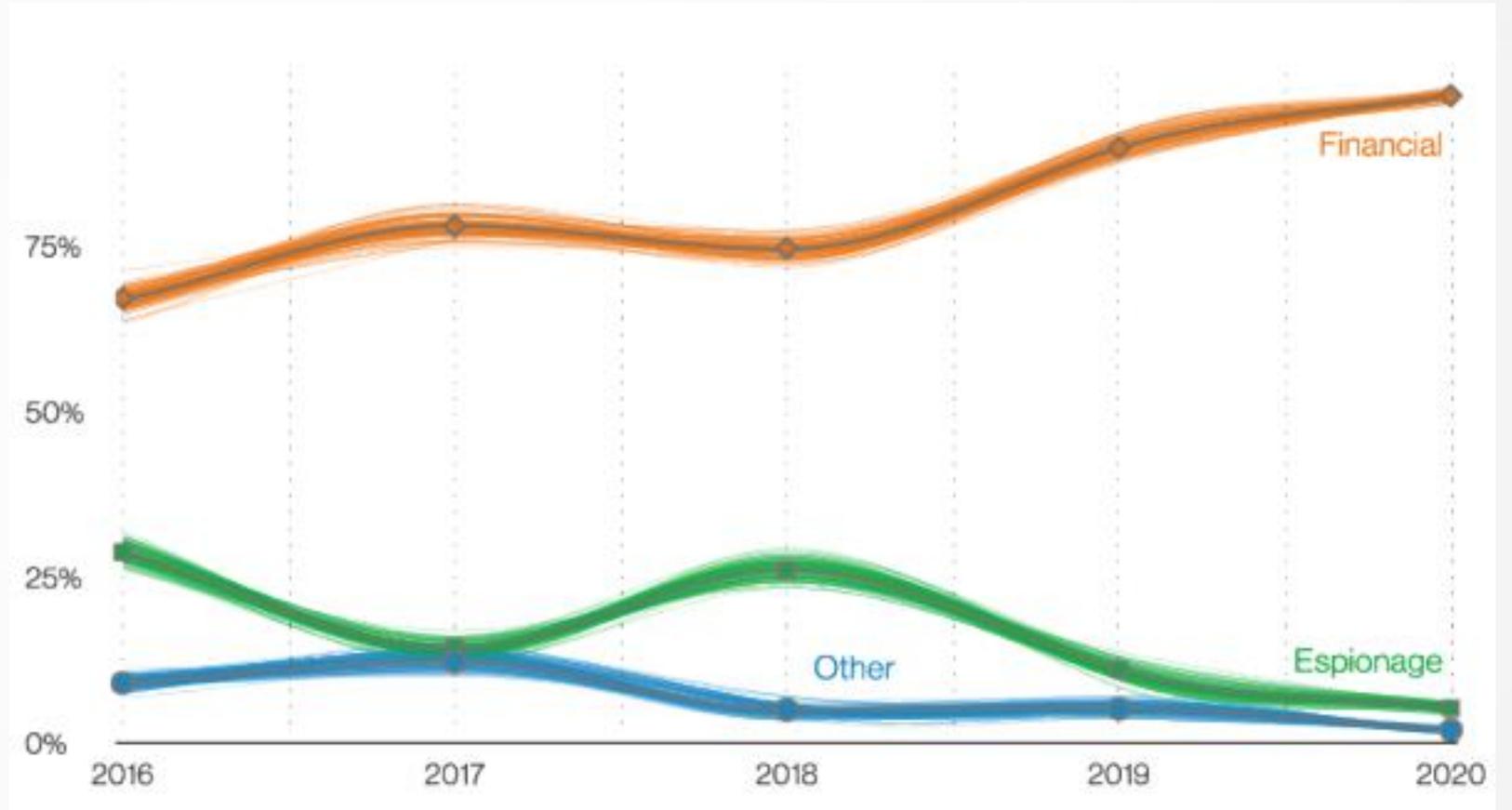
SHARE OF ORGANIZATIONS WHO PAY THE RANSOM AFTER A RANSOMWARE ATTACK
51%

Actors and Motives Over Time

Actors

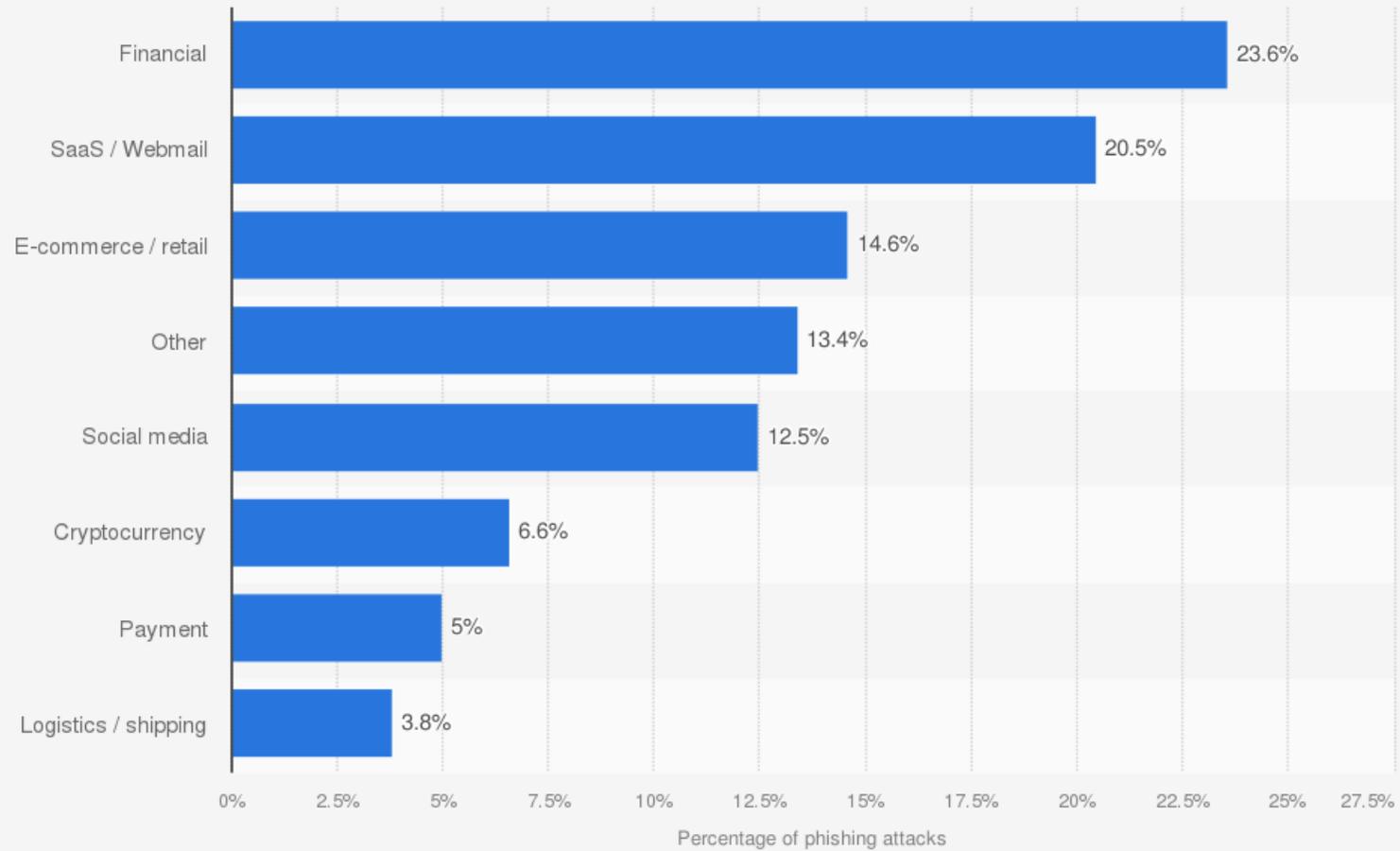


Motives



Let's Go Phishing!

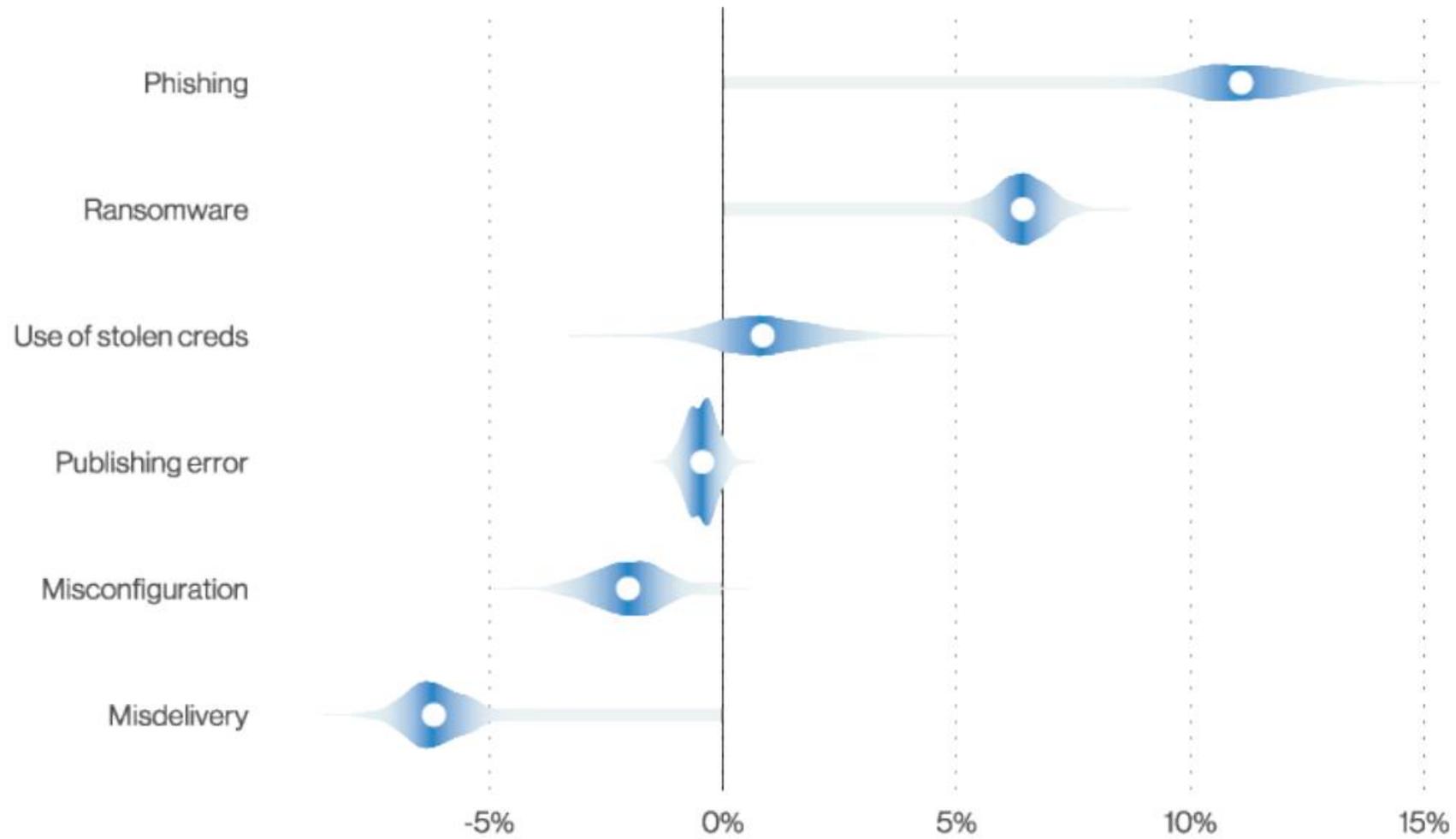
Online industries most targeted by phishing attacks as of 1st quarter 2022



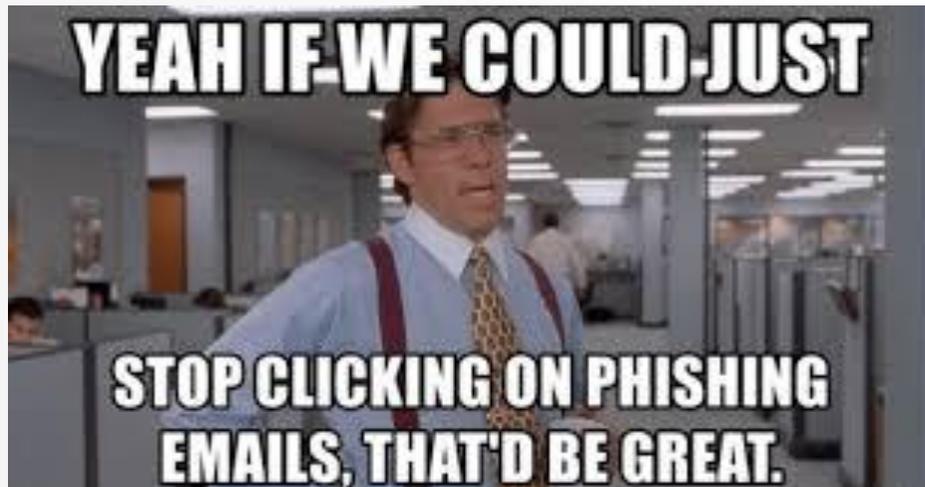
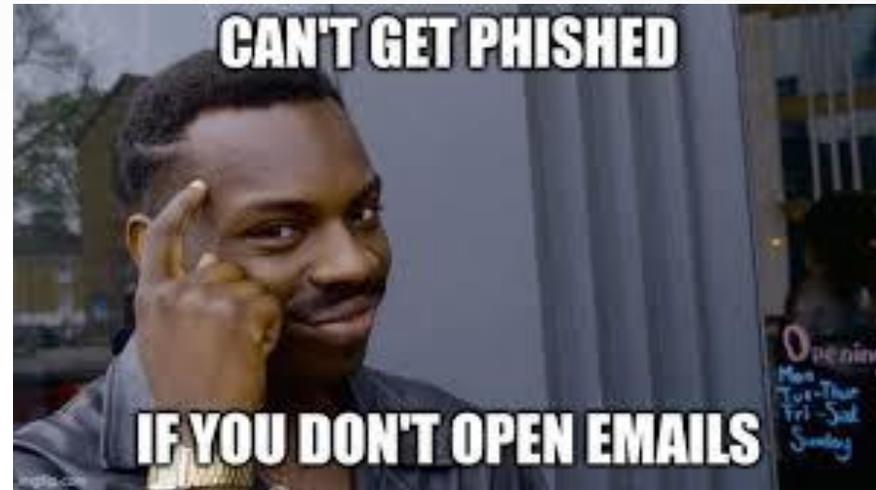
Source
APWG
© Statista 2022

Additional Information:
Worldwide; APWG; Q1 2022

COVID Effect



What Can You Do?



Effective Security Awareness Education

- **Test Regularly**
 - Develop regular schedule for testing of random employees
 - Assess effectiveness regularly
 - Review common problems and focus on addressing them
- **Add gamification to engage, teach, and assess**
 - Publish leaderboards on training
 - Engage in teaching concepts that might be difficult to understand
 - Breakdown difficult concepts into layman terms for everyone to grasp
- **Frequency and Consistency**
 - Once per year a 3-hours long security awareness course will not help
 - Introduce micro learning
 - Short engaging stories on frequent basis to keep employees engaged and reminded
 - Test learning concepts



Technical Controls to the Rescue

Two Factor Authentication (2FA)

WE'VE HAD FIRST PASSWORD, YES



Multi Factor Authentication (MFA)



Adaptive Authentication (AA)



Passwordless Continuous Authentication (PCA)



The best password is the one that no one knows.

Si Yu'os Ma'åse



THANK YOU

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