



Cybersecurity Year-End Review

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Polling Question 1

Do you want CPE credit?

- Yes
- No

Answer in the Conferences i/o app on your device.

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What are you up against?

We are up against a lot.



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More money, more problems.

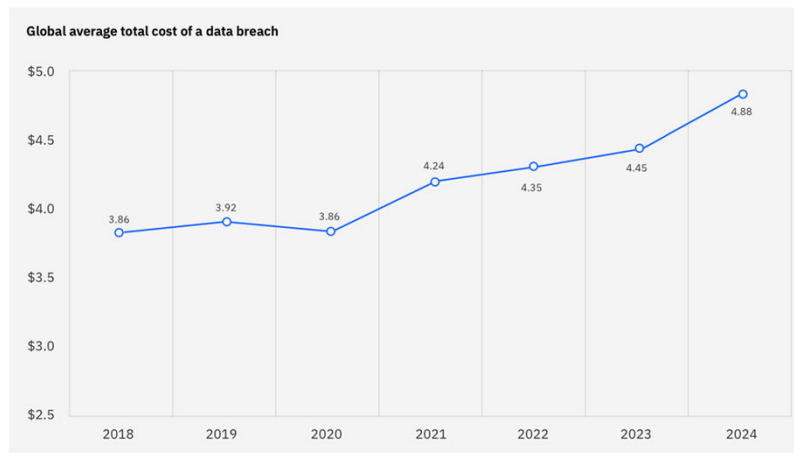


Figure 1. Measured in USD millions

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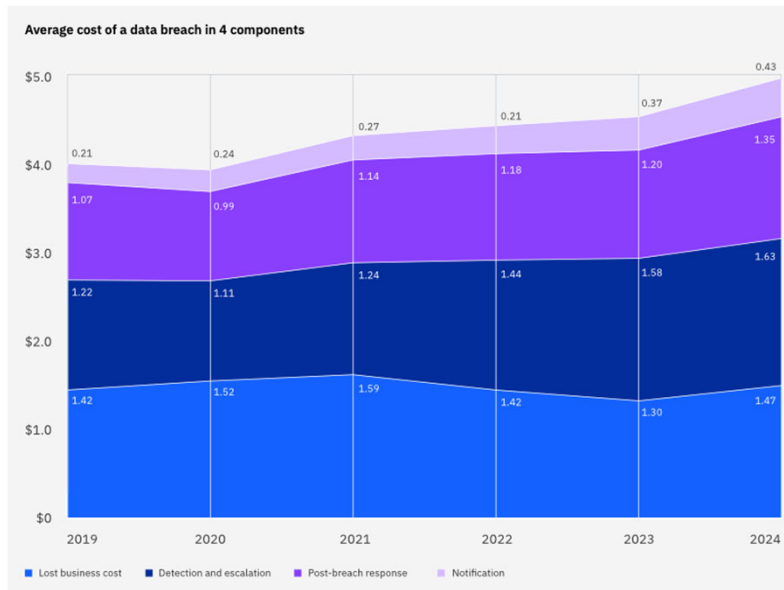


Figure 5. Measured in USD millions

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Same threats, different day.

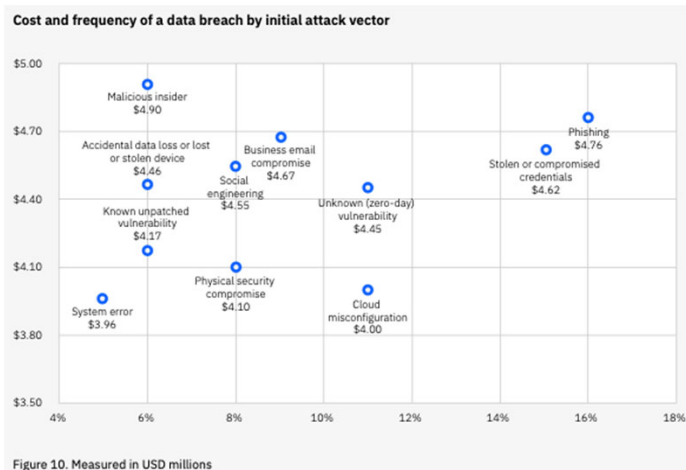


Figure 10. Measured in USD millions

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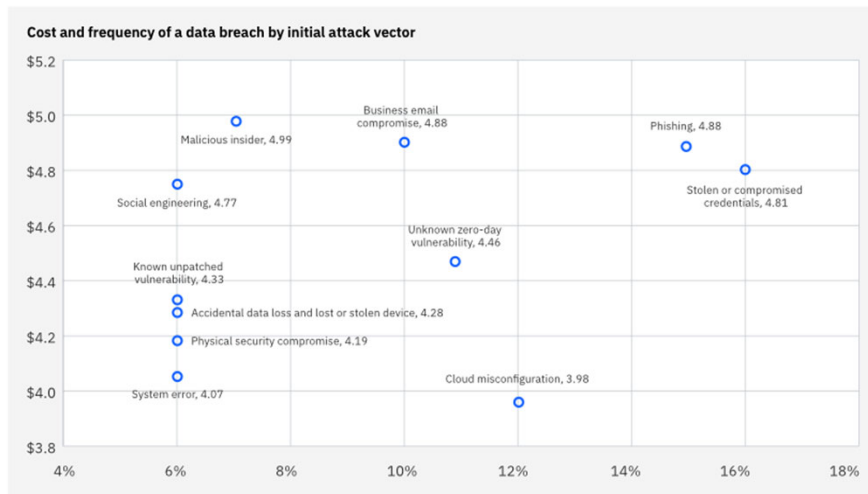


Figure 7. Measured in USD millions; percentage of all breaches

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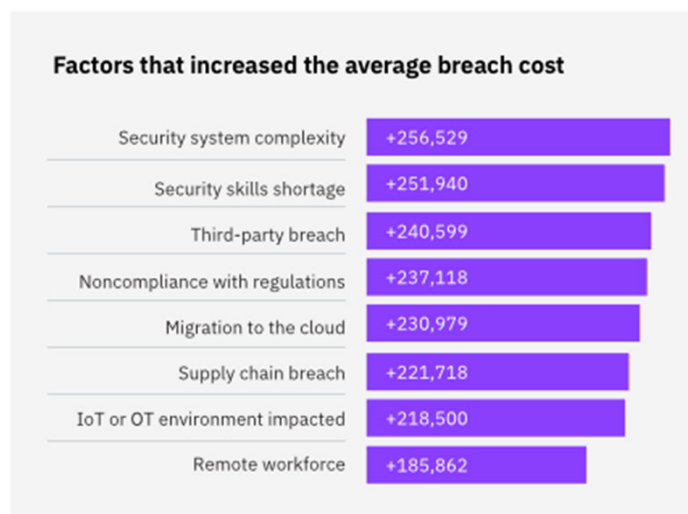


Figure 26. Cost difference from USD 4.88M breach average; measured in USD

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Breaches led to more investments.

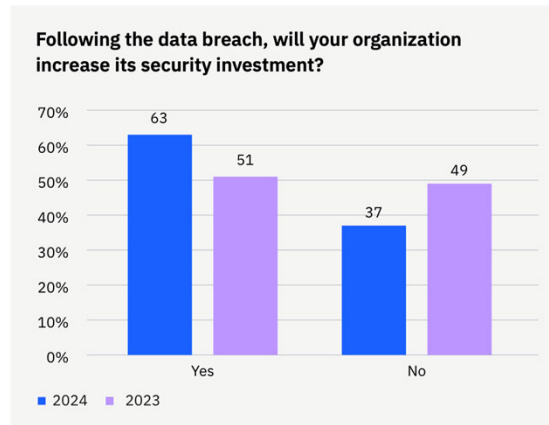


Figure 44. Percentage of all organizations

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Most common investment types among those increasing security investments after a data breach

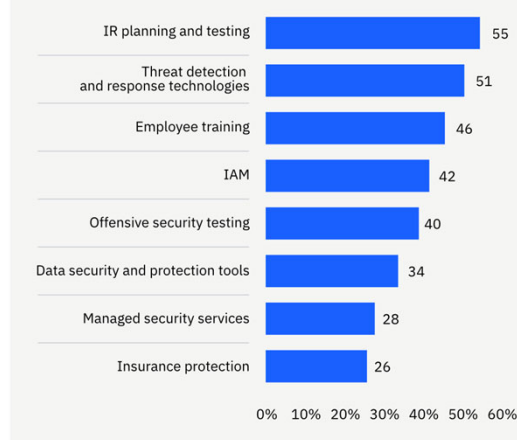


Figure 45. Share among organizations that are increasing security investment; more than 1 response permitted

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Factors that reduced the average breach cost



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But investments aren't always easy.

- Insurers are getting “tougher”
- Controls you invest in don't always evolve with threats
- Extensive skills gaps exist in cybersecurity
 - ... or are the expectations too high?
- Culture can impact the success of implementations
- Regulation continues to evolve

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Polling Question 2

What is your biggest roadblock to security?

- Continued evolution of threats
- Budgetary and resource constraints
- Skills gaps in cyber area
- Lack of management support
- Staff culture

Answer in the Conferences i/o app on your device.

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What can we do?

Brainstorm: How are they getting our data?

- Social engineering
- System compromise
- Misdelivery, lost devices, misconfigurations
- Vulnerability exploitation
- Vendor issues
- Extraneous access



Brainstorm: Where are the gaps in vulnerability management?



- Identification of assets
- Identification of new vulnerabilities
- Reliance on third parties
- Resource limitations

Brainstorm: How are they defeating MFA?

- Social engineering
- SIM swapping
- Device theft
- Malware
- Push fatigue



Example: HK and Deepfakes



Images generated from thispersondoesnotexist.com

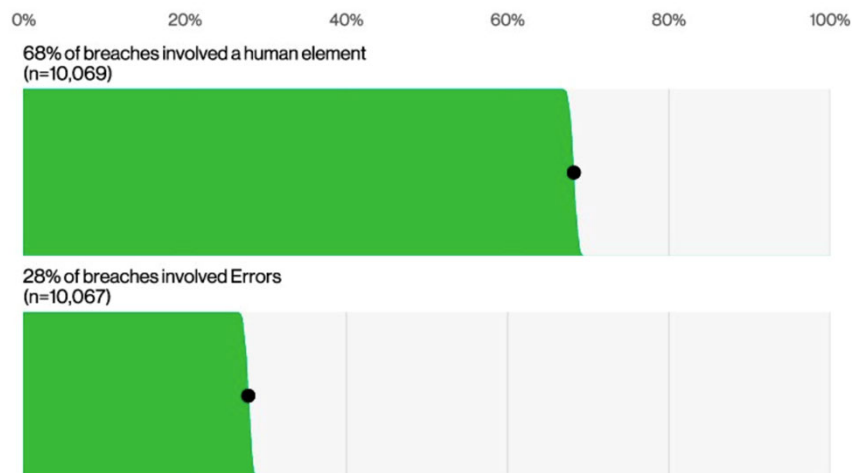
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AI + Social Engineering

- Democratization via fraud-as-a-service
- Enhanced toolkits with generative AI and deepfakes



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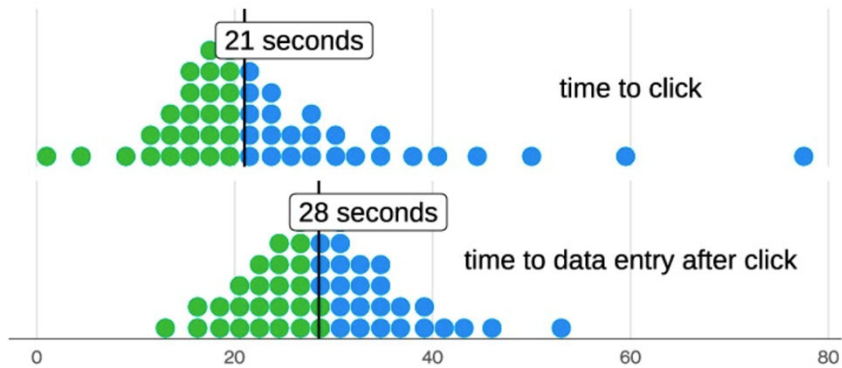


Figure 39. Time between email clicked and data entered

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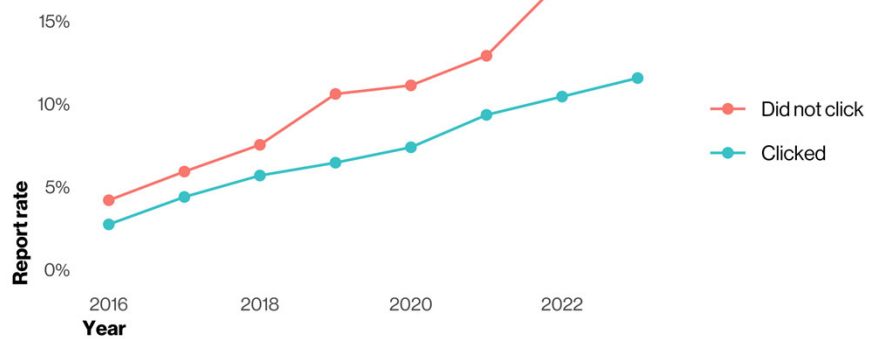


Figure 4. Phishing email report rate by click status

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Polling Question 3

What control helps you the most in fighting phishing?

- Employee training
- Email filtering
- Phishing simulations
- External email disclaimers
- Other – chat it!

Answer in the Conferences i/o app on your device.

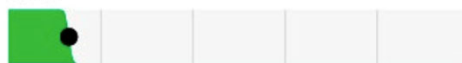
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0% 20% 40% 60% 80% 100%

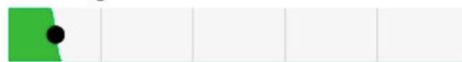
Misdelivery



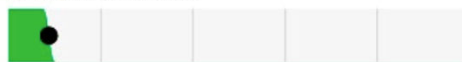
Loss



Misconfiguration



Classification error



Publishing error



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New Term: Shadow Data

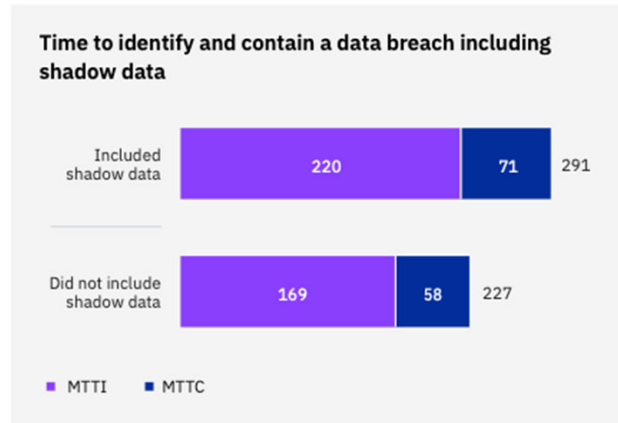


Figure 41. Measured in days

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New Term: Shadow Data

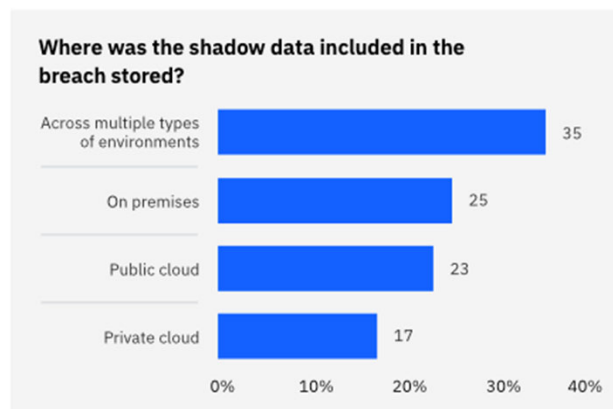


Figure 42. Percentage of breaches involving shadow data; 1 response permitted

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How do you identify threats?

- Vendor alerts
- Threat-sharing groups
- Vulnerability scanning



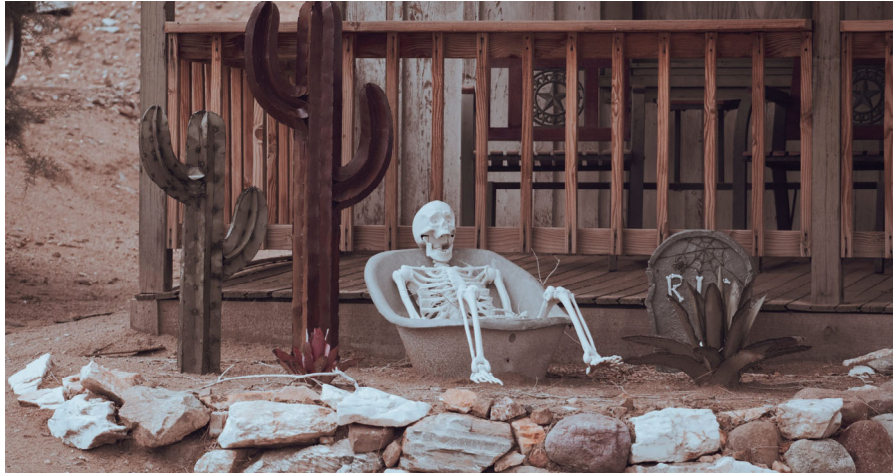
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How do you manage configurations?

- Baselines
- Standardization
- Change management
- Monitoring and review

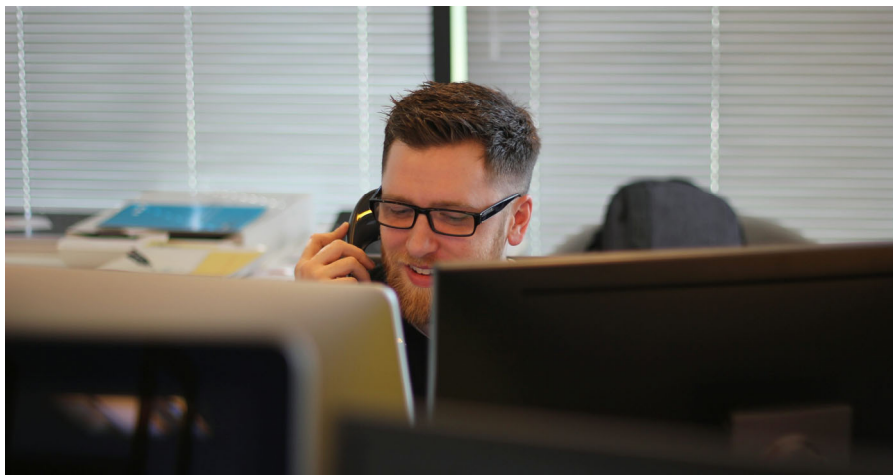
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Monitoring for End-of-Life



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How do you manage your vendors?



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Are there gaps with ancillary endpoints?



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Zero-Day Vulnerabilities



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Think about resiliency.



Time to identify and contain a data breach

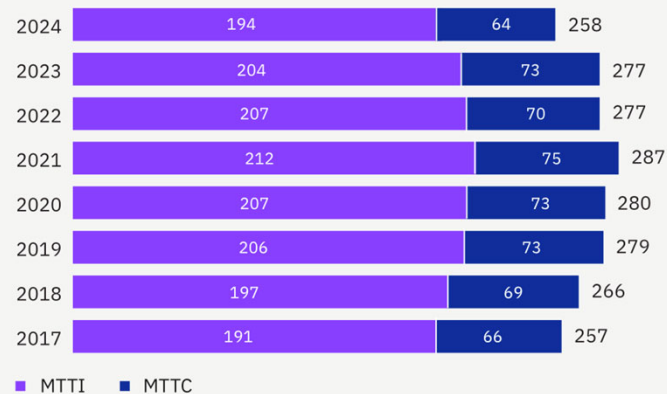


Figure 4. Measured in days

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Potential Gap: Succession Planning



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Potential Gap: Over-Reliance on Third Parties



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Potential Gap: Inadequate Visibility

- Scope not comprehensive
- Lack of resources
- Inadequate frequency



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Potential Gap: Plans Are Too General

- Plans have not evolved
- No tabletop discussions to flesh out procedures
- Leads to slower and less effective response



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Potential Gap: Don't Know What Insurance Offers



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Potential Gap: Backup Process Issues

- Lacking scope
 - Missing servers
 - Incorporation of cloud environments
- Encryption
- Retention
- Ransomware protections



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Polling Question 4

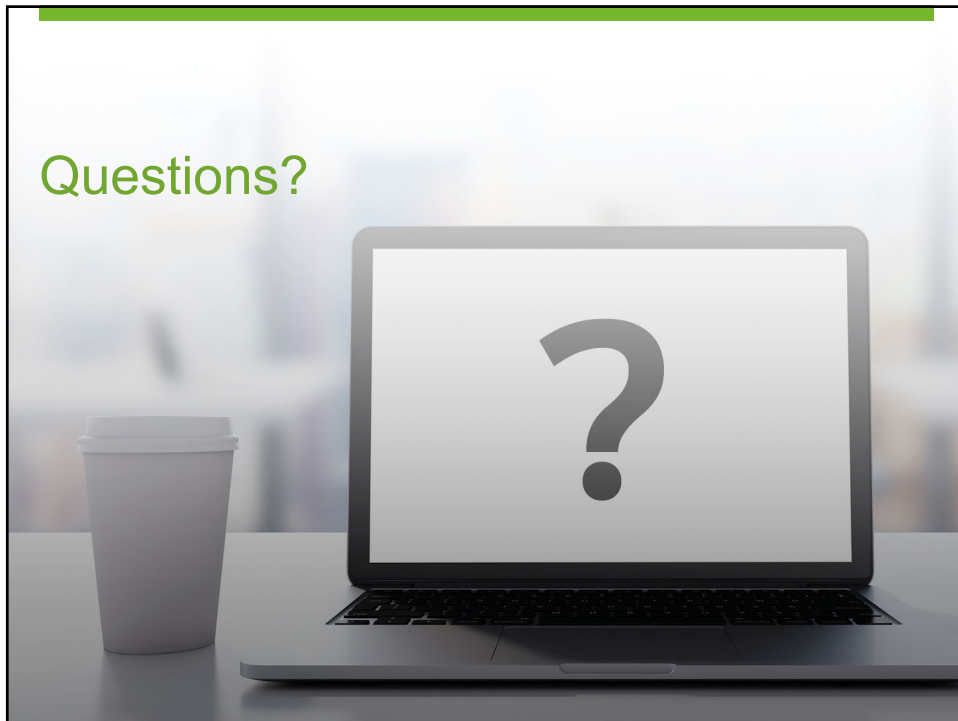
When it comes to cyber, how do you feel about the coming year?

- Shaking in my boots
- Preparing and feeling optimistic
- Aiming for continual improvement

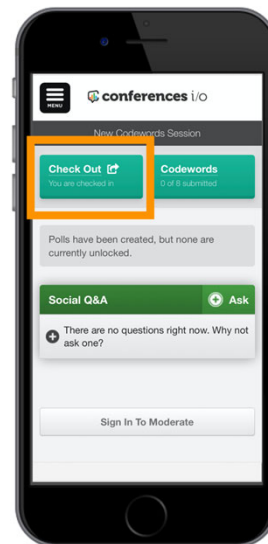
Answer in the Conferences i/o app on your device.

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Questions?



Don't forget to check out of Conferences i/o before you leave!



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Thanks!

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