

How to create a Cybersecurity Education and Awareness Program to change behaviour

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KnowBe4

BEFORE WE BEGIN THE WEBINAR

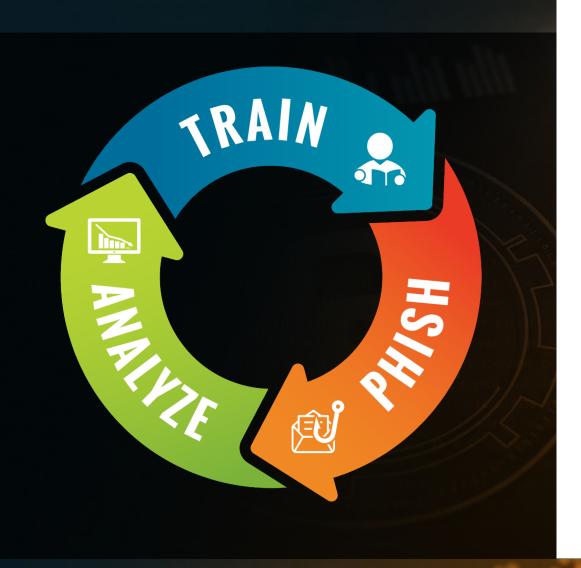
- Presenter will talk for about 40 minutes
- At the end of the presentation, we will take questions
- We will answer as many questions as time allows
- Use the Q&A button on the Zoom toolbar to submit your questions
- This session is being recorded
- Recording will be available to all registrants within 7 days

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AISA acknowledges the Traditional Custodians of country throughout Australia and their connections to land, sea and community. We pay our respect to Elders past and present and extend that respect to all Aboriginal and Torres Strait Islander peoples today.





About Us

- The world's largest integrated Security Awareness Training and Simulated Phishing platform
- Based in Tampa Bay, Florida, founded in 2010
- CEO & employees are ex-antivirus, IT Security pros
- We help tens of thousands of organizations manage the ongoing problem of social engineering
- Winner of numerous industry awards











Australian Research

Office Workers

- 34% admit to using the same password for more than one account
- 14 % are using their work email address and their work phone personal activities
- 68% don't believe using their work email for personal activity is a security risk
- 43% are not confident in identifying a real or fake email
- 46% are not confident in identifying a real or fake SMS
- 21% believe that Cybersecurity is the IT departments responsibility



Australian Research

IT Decision Makers

- 38% are concerned about phishing
- 42% are confident they would know the steps to take following a cyber incident or data breach
- 40% are confident their employees understand the business impact of a cyber attack
- 31% believe that it Cybersecurity is the IT department's responsibility

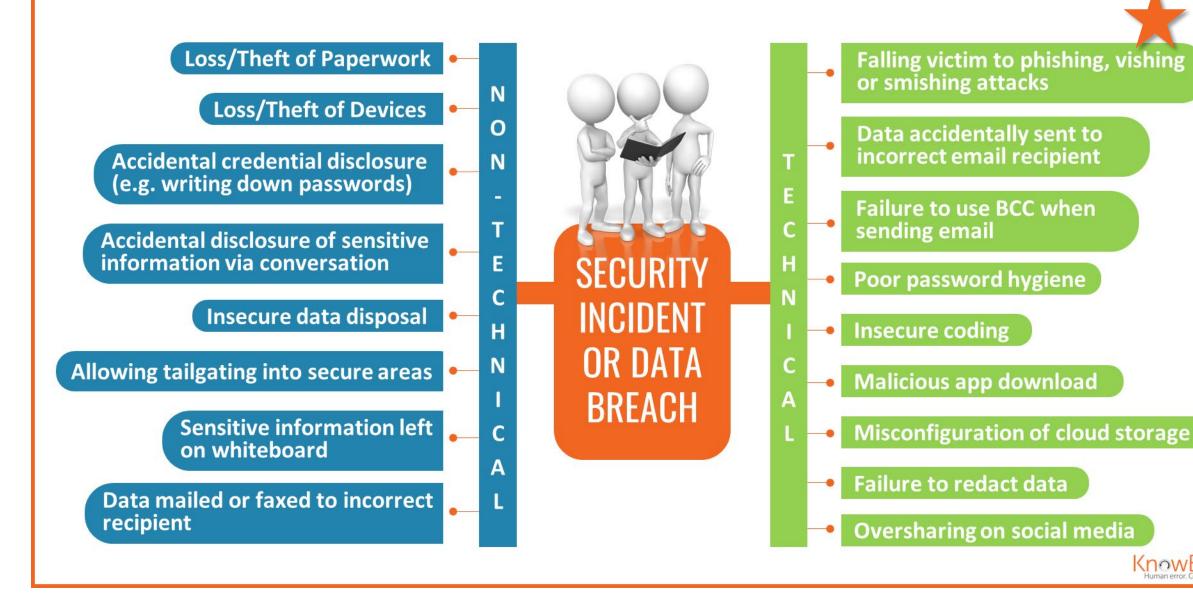


The ISHING Family





HUMAN ERROR IS NOT ALWAYS TECHNICAL IN NATURE



Customers are Building a Modern Security Stack



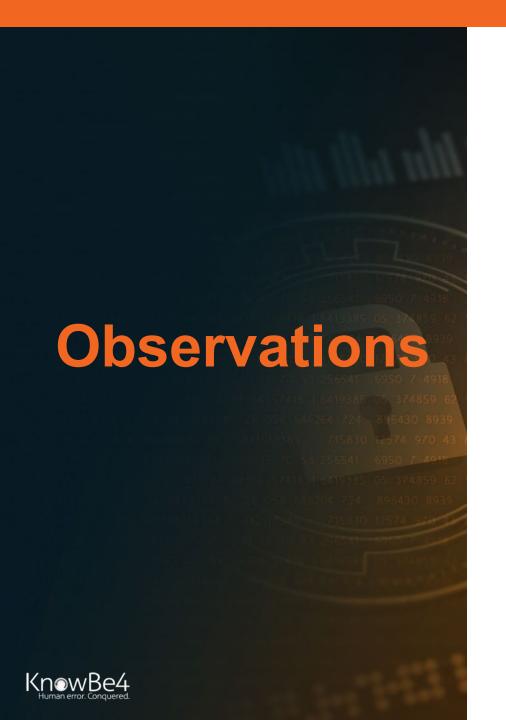


Key Questions

- 1. How do we educate our people to understand their role in staying safe online.
- 2. Why can't we just tell people what to do make it compulsory.
- 3. Why is a combined approach to cybersecurity so important?







- Training people on cybersecurity once a year will not work
- Changing behaviour takes time and effort
- Knowledge or awareness is no longer enough
- There is a need to make cybersecurity personal to everyone for any real change to occur and for a culture of cybersecurity to develop
- Changing behaviour is akin to integrity, where people do the right thing even though no one is watching

Steps to Create a Cybersecurity Education and Awareness Program to Change Behaviour

- 1 Research and Preparation

 Executive Buy In Part I
- 2 Executive Buy In Part II

3 Launch and Manage



Research and Preparation

Executive Buy In Part I



Project Plan ⇒ BAU

- 1. Team
- 2. Intent
- 3. Objectives
- 4. Success metrics
- 5. SAT platform
- Key messages
- 7. Alignment with organisation
- Reporting

- 7. Resources
- Budgets
- 9. Employee monthly view
- 10. Simulated phishing templates
- 11. Best practice
- 12. Develop a timeline
- 13. Engage the organisation
- 14. Communication plan
- 15. Program expectations



What about the People?

- Expectations
- Roles and Responsibilities
- Identifying Risk
- Existing KPIs
- New Starters Program
- Cybersecurity Safety Officers (CSSOs)
- WIIFT (What's In It For Them)
- Rewards and Gamification





Engagement (activities to support awareness)

 Implement a formal team of Cybersecurity Safety Officers (CSSOs).

- Identifying the WIIFT (What's-In-It-For-Them)
- Develop a rewards program or gamification for observable behaviour change



Executive Buy In Part I

- 1. What does their 'universe' look like.
- 2. What information/data that is important to them.
- 3. What would it mean if that was stolen/breached.
- 4. Do their teams/people understand how to protect it.
- 5. What is the one biggest challenge they have when it comes to cybersecurity.



Executive Buy In Part II



Agreement and Sign off for:

- SAT platform to underpin the program
- Look and feel (logo, language etc.)
- Communication plan
- Benchmark phishing email
- Knowledge and culture assessments
- Training minimum requirements

- Simulated phishing templates
- Reporting requirements
- Expectations
- Budget needs
- KPIs for the organisation
- Who is responsible for the ongoing program



Launch and Manage

- Launching isn't what you might think.
- Formally engaging other areas of the organisation that will be supporting you.

In the first month:

- communicate the program out to the entire organisation
- benchmark results and what they mean paint a picture
- upcoming knowledge and culture assessments and the WIIFT
- Expectations
- A calendar of upcoming events
- Provide enough information to ensure people know what, why, how, and when
- Include a link to the knowledge and culture assessments providing 2 weeks for people to complete them



Launch and Manage

- Communications to everyone (emails, notifications, updates, etc.)
- Sending out training
- Sending out simulated phishing and other social engineering elements
- Analysis of results
- Reporting to stakeholders and the entire organisation
- Preparing reports for compliance and regulatory requirements
- Organising in-person or virtual events
- Keeping up the hype for the program
- Cybersecurity Safety Officers (CSSOs)
- Gamification





Considerations for a Successful Program

- Never punish human error.
- Develop a cyber-related newsletter or page on your intranet.
- Demonstrate live hacks so the 'a-ha' moment takes place.
- Provide full transparency on any near misses or actual cyber-attacks on the organisation.
- Look at the data you hold and understand and communicate its real value.
- Focus on the data you have on each employee: when they realise it is not only customers data at risk their level of care increases.
- Provide useful resources for employees to use and also share.



Social Engineering Red Flags



- I don't recognize the sender's email address as someone I ordinarily communicate with.
- This email is from someone outside my organization and it's not related to my job responsibilities.
- This email was sent from someone inside the **organization** or from a customer, vendor, or partner and is very unusual or out of character.
- Is the sender's email address from a suspicious domain (like micorsoft-support.com)?
- I don't know the sender personally and they were not vouched for by someone I trust.
- I don't have a business relationship nor any past communications with the sender.
- This is an unexpected or unusual email with an embedded hyperlink or an attachment from someone I haven't communicated with recently.



- I was cc'd on an email sent to one or more people, but I don't personally know the other people it was sent to.
- I received an email that was also sent to an unusual mix of people. For instance, it might be sent to a random group of people at my organization whose last names start with the same letter, or a whole list of unrelated addresses.



- I hover my mouse over a hyperlink that's displayed in the email message, but the link-to address is for a different website. (This is a big red flag.)
- I received an email that only has long hyperlinks with no further information, and the rest of the email is completely blank.
- I received an email with a hyperlink that is a misspelling of a known web site. For instance, www.bankofarnerica.com — the "m" is really two characters — "r" and "n."



Date: Monday December 12, 2016 3:00 pm

To: You@yourorganization.com

Hi, I'm on vacation in London and my money and passport were stolen out of my bag. Could you wire me \$300 via Bank of America? They gave me a special link so this goes right into my account and I can buy a ticket home:

http://www.bankofarnerida.com

Subject: My money got stolen

Thanks so much. This really helps me out!

Your CEO



Did I receive an email that I normally would get during regular business hours, but it was sent at an unusual time like 3 a.m.?



- Did I get an email with a subject line that is irrelevant or does not match the message
- Is the email message a reply to something I never sent or requested?



- The sender included an email attachment that I was not expecting or that makes no sense in relation to the email message. (This sender doesn't ordinarily send me this type of attachment.)
- I see an attachment with a possibly dangerous file type. The only file type that is always safe to click on is a .txt file.



CONTENT

- Is the sender asking me to click on a link or open an attachment to avoid a negative consequence or to gain something of value?
- Is the email out of the ordinary, or does it have bad grammar or spelling errors?
- Is the sender asking me to click a link or open up an attachment that seems odd or illogical?
- Do I have an uncomfortable gut feeling about the sender's request to open an attachment
- Is the email asking me to look at a compromising or embarrassing picture of myself or someone I know?



What you are embarking on is a whole organisation change management program that results in everyone making better decisions when it comes to security, ensuring all regulatory and compliance elements are achieved, the risk is reduced, your people are a formidable human firewall, and a culture of security is created.





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 Executive Buy In Part I
- 2 Executive Buy In Part II

Launch and Manage





Thank You



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