How to reduce human risk with behavior change NIS2 follow-up webinars



Sensitivity: Company

many of any other states



Welcome



Sacha Vekeman (Inetum's Host)

Specialized Sales Cybersecurity Human Risk Practitioner



Jim Moliski (Guest speaker) VP Strategy **O** HOXHUNT



AGENDA:

- Inetum's Webinar about **Human Risk**
- •



Practical session how to move from Security Awareness to Behavior **Change** and align with **NIS2** regulation How to achieve change with **Hoxhunt**

inetum.world







Practicalities

- Questions via chat
- Everybody is on mute
- Q&A after the presentation
- Evaluation with link to the slides will be sent after the webinar



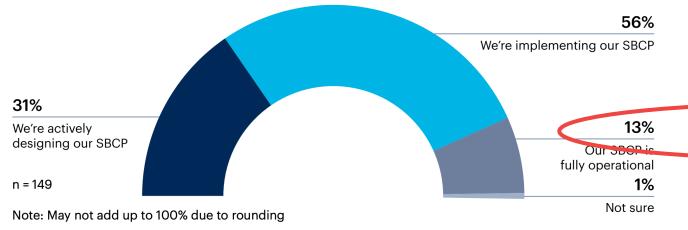
ion he slides will be

Why Human Risk Positive digital **Recent industry maturity: from SAT to Risk Adoption**

- **2020** Hoxhunt published a Buyer's guide to "Mode n Phishing Daining" focusing on: User experience, personalization, reporting metrics and automation to achieve behavior change!
- **2022** Gartner published: "Innovation Insights on Security Behavior & Culture Program Capabilities"

Security Awareness Computer-Based Training (SACBT) services offer a stable set of core capabilities, yet risky employee behavior persists. New, emerging capabilities apply **behavioral science principles**, **data analytics** and **automation** to help cybersecurity leaders reduce risk via **measurable** ulture change

2023 Gartner updated research: Security Behavior & Culture Program's Adoption Strategies





Minority is at Human Risk

Majority is doing SAT

footer

Why Human Risk **Increasing customer maturity in Belgium**

Situation in Belgium in changing fast

1/3 Do nothing or classroom / video-based SAT (difficult to measure) 1/3 DIY phishing-test as once and a while (first measurement – fail rate baseline) 1/3 Phishing simulations done via a platform: e.g. Phished.io or Microsoft E5 licenses (first steps to compliance)

Client maturity grows fast in large-scale or complex ecosystems – SAT doesn't work

Port of Antwerp \rightarrow start of a new "Cluster" with fast adoption (city of Antwerp, police zone, transport, railway, etc.) \rightarrow driven by peer pressure BPost + BEL20 companies + Critical Infrastructure (nuclear, energy, utilities, etc.) \rightarrow today driven by NIS2, complexity & need for change Healthcare \rightarrow huge variation of people and skills, location of workers and cultural difference (languages, nationality, roles, etc.)

NIS2 is fast-tracking adoption – SAT is NOT the solution

- User awareness → requires engagement!!!
- Reporting, reporting, reporting \rightarrow requires data about your employees!!!
- Focus on ransomware (\rightarrow 80% of attacks start with social engineering and phishing) \rightarrow requires behavior change from people!!!





Minority is Running SBCP Majority is doing SAT

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Why () HOXHUNT

People-first approach – Leveling your Executives – Adoption

- **End-users** love it high engagement rates (critical measurement) critical for "Directie" en "RvB"
- Security defenders fully automated (less work) they love it as no overhead (IT / CIO)
- Security analysts get more real malicious mails reported (no noise & no false-positives) (SoC)
- **Executives** levels the cybersecurity playing field shows the importance & URGENCY of cybersec.

Business case is made in less than 2 weeks **{Immediate data**

- **Engagement** rates \rightarrow clear ROI to access platform and benefit from automation
- Fail rate versus **success rates** \rightarrow phishing recognition (core to SAT)
- **Real-threat reporting rate** \rightarrow visible risk-reduction: your own people become your most reliable security analysts

NIS2 stress tested – Easy to decide - Fast implementation – Risk Reduction

- Actionable data clear metrics real(-time) reporting real visible progression of people!
- Continuous is in Continuous change takes time but progression is measured day-to-day
- Drives REAL THREAT REPORTING Malicious emails are getting reported and handled!!!



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Reducing Human Risk with Hoxhunt

REPORTED

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SUCCESS RATE 92%

90%

ENGAGEMENT RATE

People-first positive behavior change

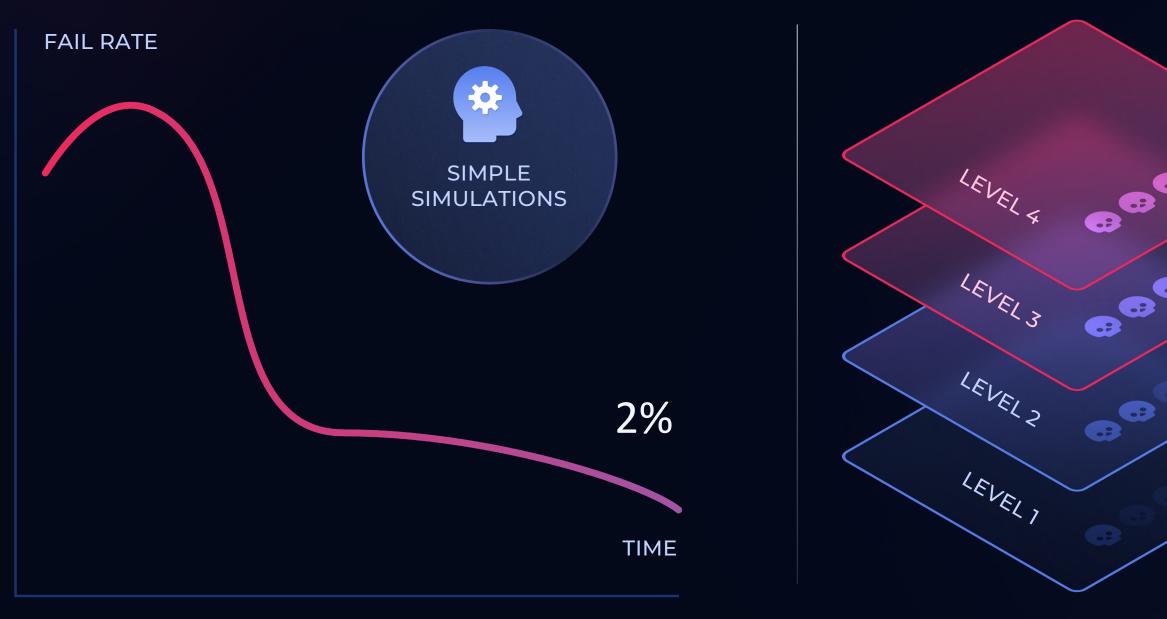


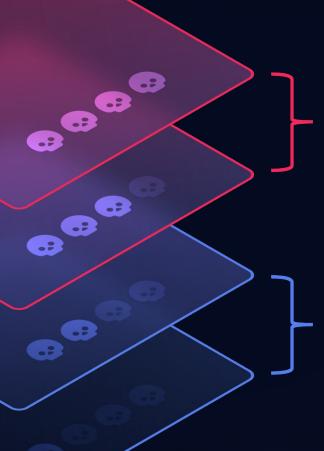
TECHNICAL LAYERS



Problem:

Employees aren't prepared

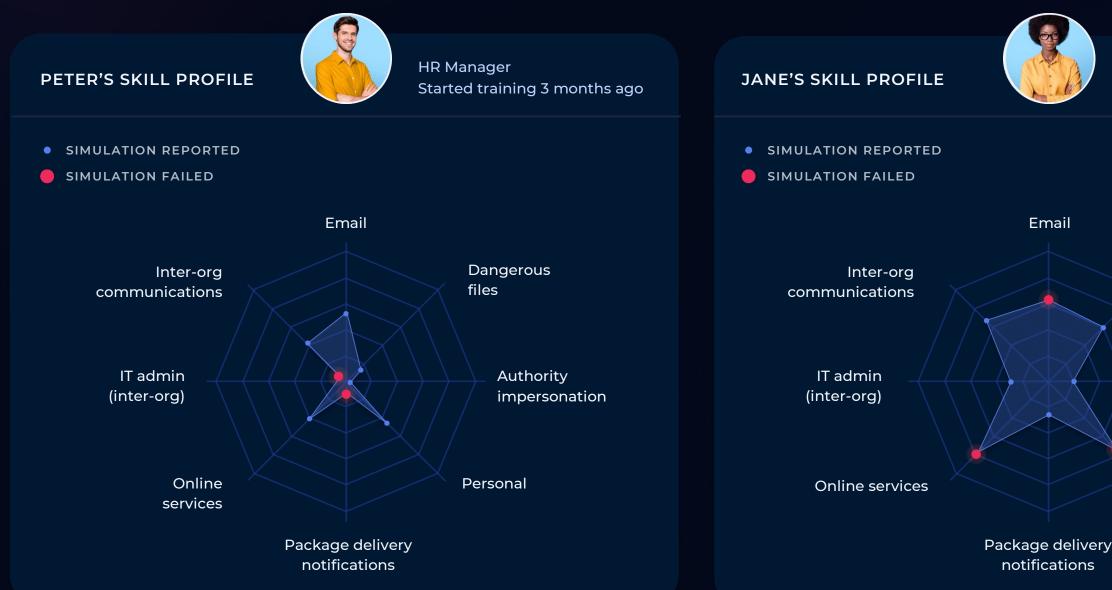




ATTACKERS' FOCUS

TRADITIONAL TRAINING FOCUSES ON SIMPLE SIMULATIONS

Learning happens at the boundaries of knowledge



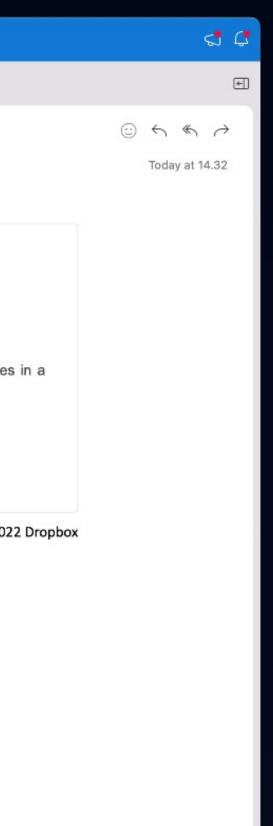
IT Admin Started training 11 months ago

> Dangerous files

> > Authority impersonation

Personal

••					Q Search			
	🗹 New Message	🗊 Delete	🗇 Archive	Co Move	🏳 Flag 🖄 Mark as Read 🗘 Sync 🐨 Report this email \cdots			
	Demo			Ξ	External Dirk Schiller wants to share folder "Summer party pics" with you!			
	Today				O Dirk via Dropbox <no-reply@dropbox.one> To: © Olli Gunst</no-reply@dropbox.one>			
	• DV External Dirk via Dropbox Dirk Schiller wants to share folder "Summer p 14.32 Dirk wants to share some files in a folder called "Summer							
					Hi there, Dirk (<u>dirk.schiller@hoxhunt.com</u>) wants to share some file folder called "Summer Party Pics" with you via Dropbox. View folder Enjoy! - The Dropbox Team			
0								





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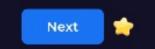




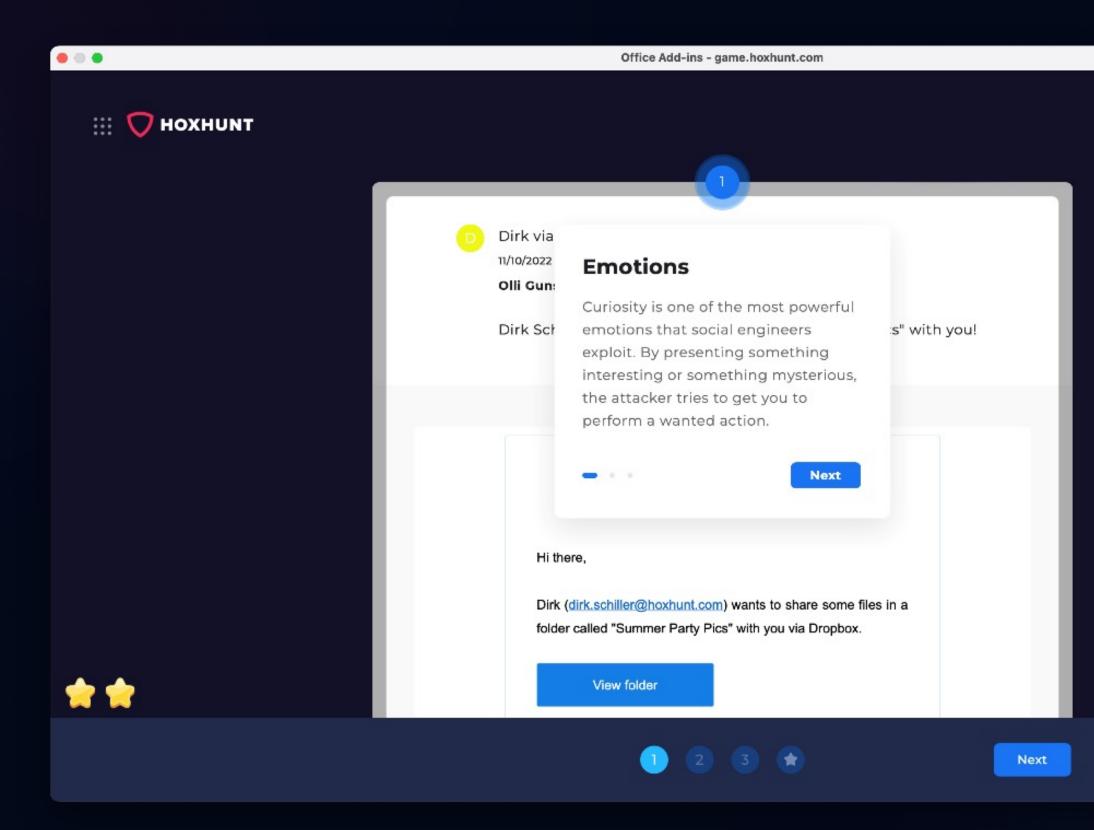
Fantastic job!

You spotted a <u>Hoxhunt training</u> email. Keep up the great work with reporting!

Learn about the shady tricks used in this simulated phishing email and earn one more star!









Office Add-ins - game.hoxhunt.com 💙 HOXHUNT **Prohibited Activities**

Which of the following practices is allowed based on Hoxhunt Information Security Policy?

Compromising confidential Information

Introducing Malware

Crashing an information system

None of the above

* * *

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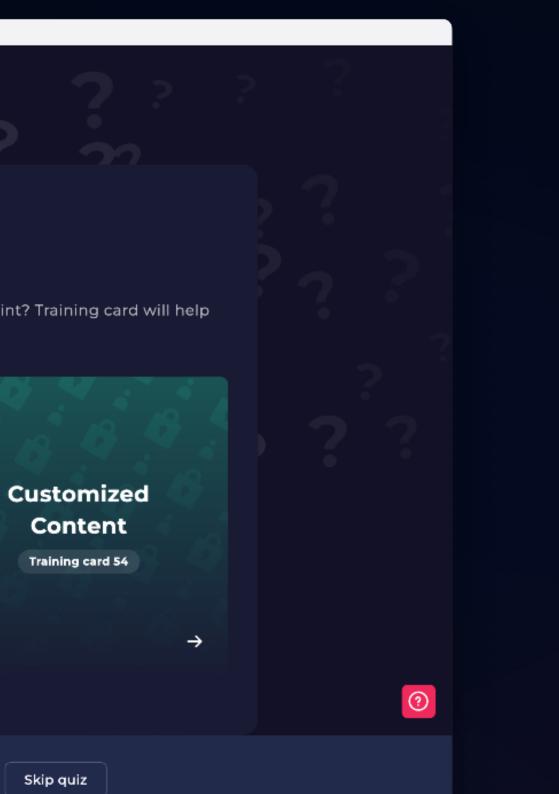
Need a hint? Training card will help you out.

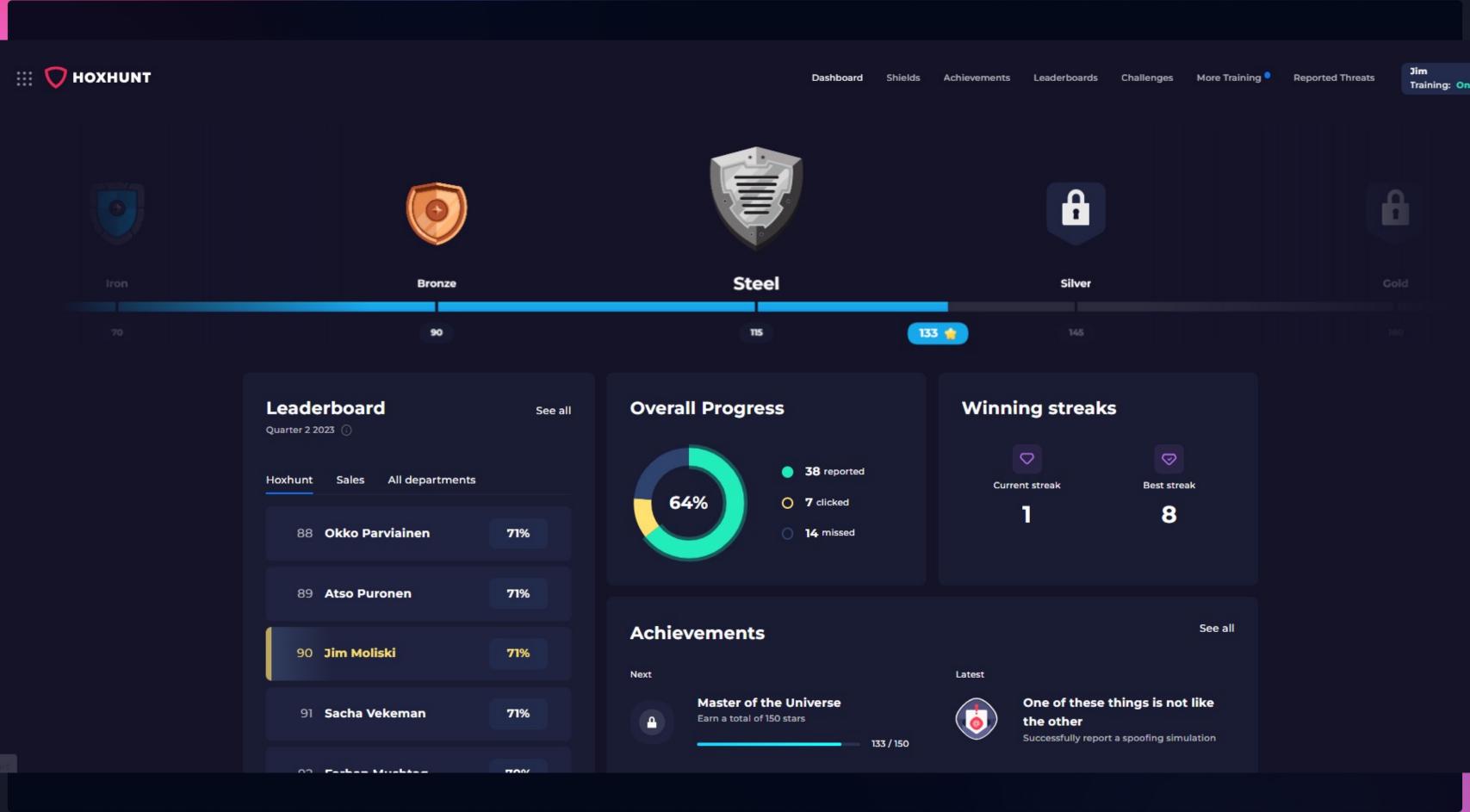
Content

Training card 54

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Skip quiz







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[Hoxhunt Report] jane.doe@gmail.com sent you invoice2021.pdf



Jim Moliski To O Atso Puronen

(i) If there are problems with how this message is displayed, click here to view it in a web browser.

jane.doe@gmail.com sent you invoice2021.pdf

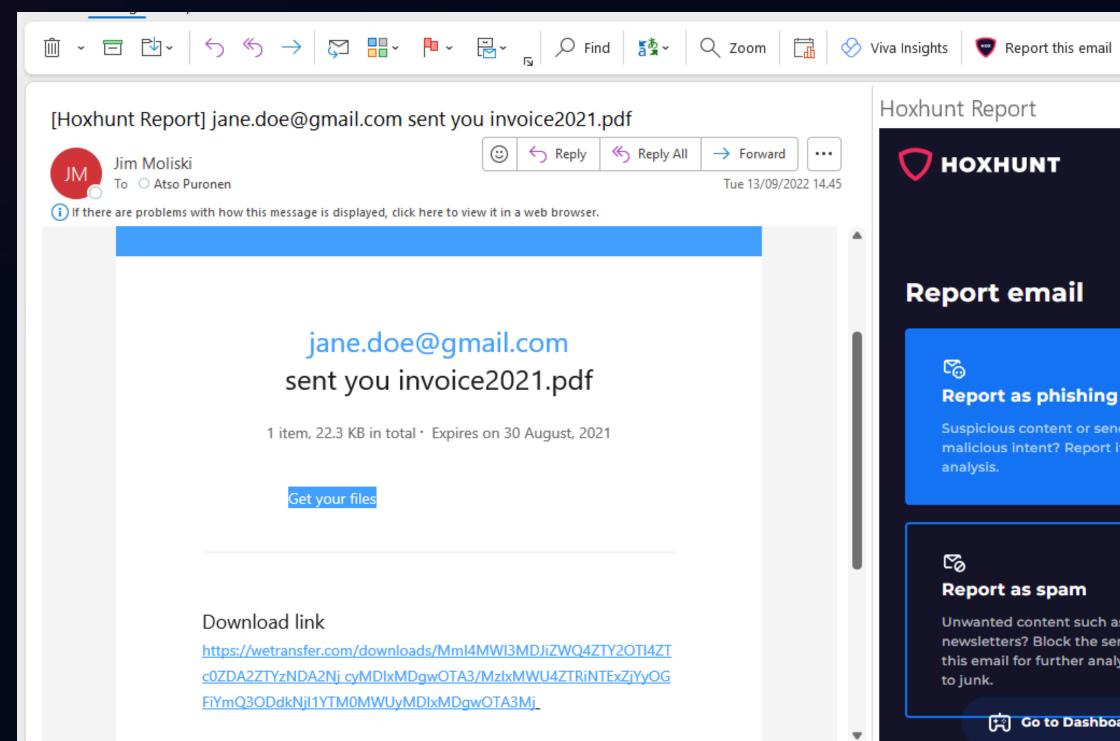
1 item, 22.3 KB in total · Expires on 30 August, 2021

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Report email

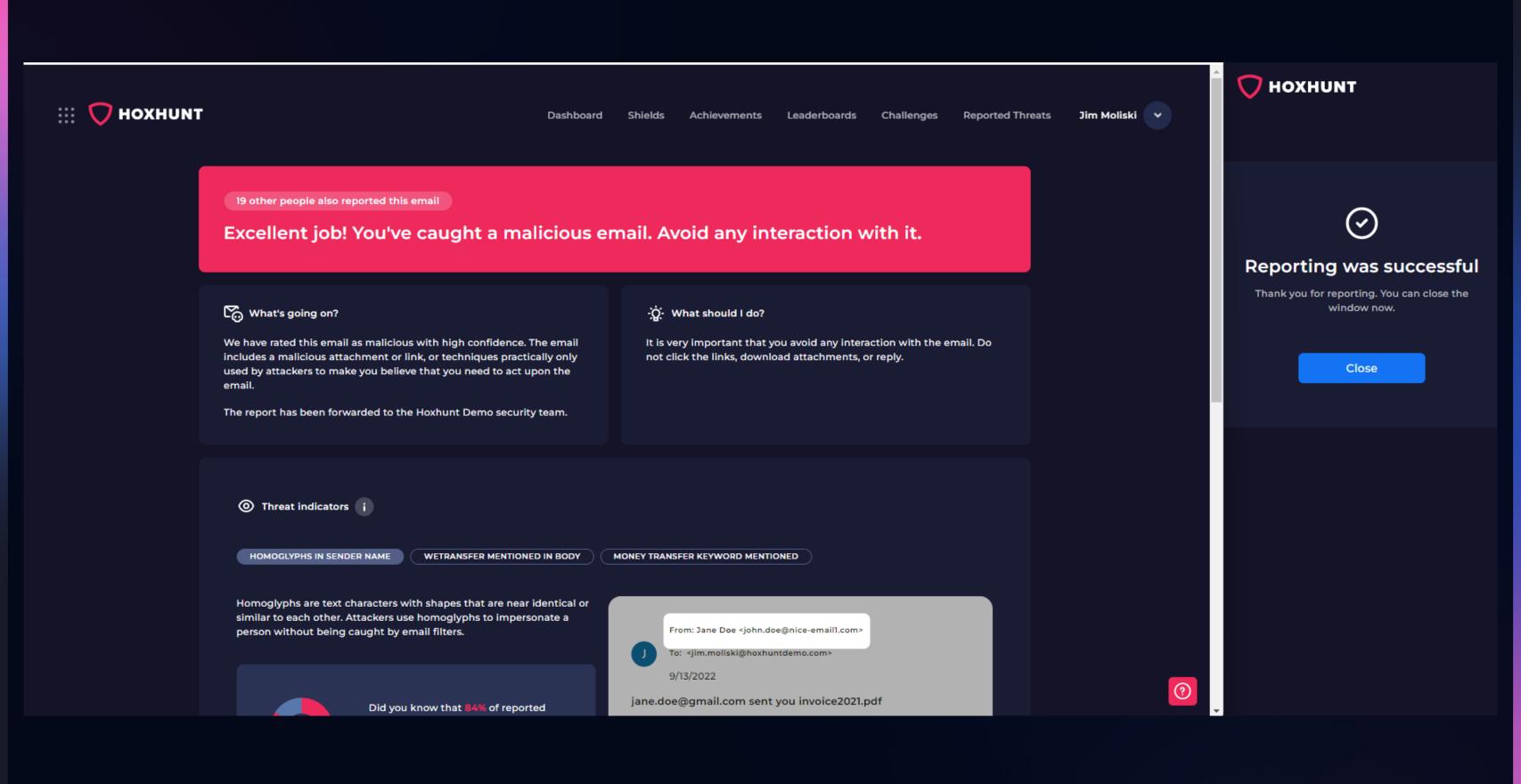
Report as phishing

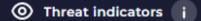
Suspicious content or sender with malicious intent? Report it for further analysis.

Report as spam

Unwanted content such as advertising or newsletters? Block the sender, and report this email for further analysis and move it to junk.

🔁 Go to Dashboard





HOMOGLYPHS IN SENDER NAME

WETRANSFER MENTIONED IN BODY

MONEY TRANSFER KEYWORD MENTIONED

Homoglyphs are text characters with shapes that are near identical or similar to each other. Attackers use homoglyphs to impersonate a person without being caught by email filters.

84%

Did you know that 84% of reported emails with homoglyphs in the sender name were classified as malicious by our analysts?

An attacker can impersonate Hoxhunt by claiming to be Hoxhunt.
The former has a Latin "o" while the latter has a Cyrillic "o".

An observant user can spot homoglyphs, characters that appear identical, used in impersonation attacks.



From: Jane Doe <john.doe@nice-email1.com>

To: <jim.moliski@hoxhuntdemo.com>

9/13/2022

jane.doe@gmail.com sent you invoice2021.pdf

wetransfer

[link blocked] sent you invoice2021.pc

1 item, 22.3 KB in total · Expires on 30 August,

[link blocked]



60%

Success rate after 1 year

60%

Users reporting a real threat after 1 year Seconds to report a real threat (top 5% fastest users to report)

60

WaterAid's Business Email Compromise (BEC) Attack



Business email of external partner is compromised Fraudulent invoice issued to WaterAid

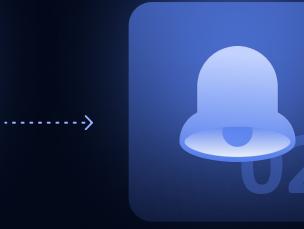
WaterAid (Before Hoxhunt)



WaterAid pays the invoice

WaterAid: with Hoxhunt









2 employees report a BEC attack Head of Cybersecurity notified Operation team finds the attack was remediated within minutes





Malicious emails removed from 39 inboxes



"I'm so confident in our staff now with Hoxhunt that if people ask me how many cybersecurity officers I've got, I say '2000'"

MARK SEDMAN **GLOBAL HEAD OF CYBERSECURITY**



WaterAid



People are your greatest risk



Why Now

1. Maturity increases with our clients (CSATs)

- **Automation** requirements main driver to reduce cost and balance the shortage of cybersec skills
- **Competition** is NOT up to par with Hoxhunt
- DIY is no longer an option

2. NIS2 directives are imminent

- Companies and private AND public sector starts to prepare get started **before the summer**!!!
- POCS and POVS we (have many to) handle many **Hoxhunt** is skilled and scaled!
- **Data** output (with automation) is key to build the business case

3. People-Driven Solution

- Many **Belgian** references and examples
- Feedback **users** we use it also at Inetum-Realdolmen see G2
- **CISOs** can provide you with direct feedback!



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No FUD please



Tot 10 miljoen boete voor onaangepaste cyberbeveiliging

24 APRIL 2024 - 12:50 | 4 MINUTEN LEESTIJD | ACHTERGROND | GOVERNANCE & PRIVACY | EUROPESE COMMISSIE



William Visterin

'NIS2 is NIS1 on steroids', aldus de Europese Commissarissen

De Belgische NIS2-wet is een feit. Zopas zette het federale parlement de Europese regelgeving daarover om in een wet. Zowat tweeduizend Belgische bedrijven en instellingen krijgen strengere normen voor cyberveiligheid. Met mogelijk miljoenenboetes tot gevolg. Maar wanneer treedt NIS2 in werking?

Kunnen ceo's persoonlijk aansprakelijk worden gesteld?

Zeker en vast. De nieuwe NIS2-wet heeft flink wat gevolgen voor managers en bestuurders van de bedrijven die onder NIS2 vallen. Zij zijn onder meer verplicht om een opleiding te volgen om cyberrisico's in te schatten. Verder moeten ze alle maatregelen goedkeuren om het bedrijf beter tegen aanvallen te beschermen en weerbaarder te maken. Managers en bestuurders zijn dus sowieso en bij wet betrokken partij.



Next step: Fast-track your human risk

What can you expect?

Fast intake & comparison of your measurements against our market intel

Free PoC after qualification with a Hoxhunt product specialist

Comprehensive ROI & business case study prepared by human risk practitioner

Included is a 6-week onboarding service to get engagement above 60%

Free 1st QBR with customer success and human risk practitioner





Security awareness & training

Turn all your employees into cyber experts

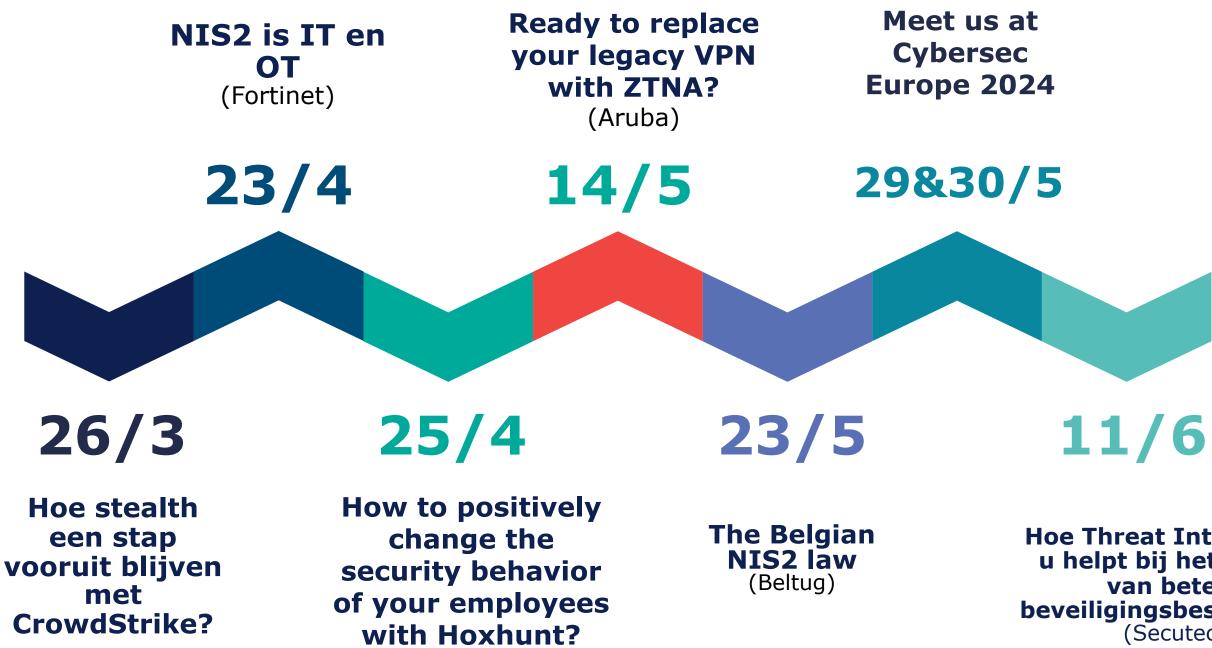
s the weakest link in your security shing easter of course Do they know how to recognize phishing emails and deal e fact that of

deen't guto effectively. That goes a long way towards explaining sity even now, nine out of our cyber attack in be traced back to human error. hatically invalve knowledg

s a for you can do to protect yourself and your employees against such attacks. One great there's a bit you can do to protect yourseit and your employees against such attacks. One gro oach is security amareness & training. This type of training aims to increase both your employ, weass and their knowledge regarding online threats, allowing them to recognize these m ? They also learn what to do if they ever encounter such a threat.



Follow-up events NIS2





Hoe Threat Intelligence u helpt bij het nemen van betere beveiligingsbeslissingen (Secutec)

inetum. realdolmen

Positive digital flow

Thank you