

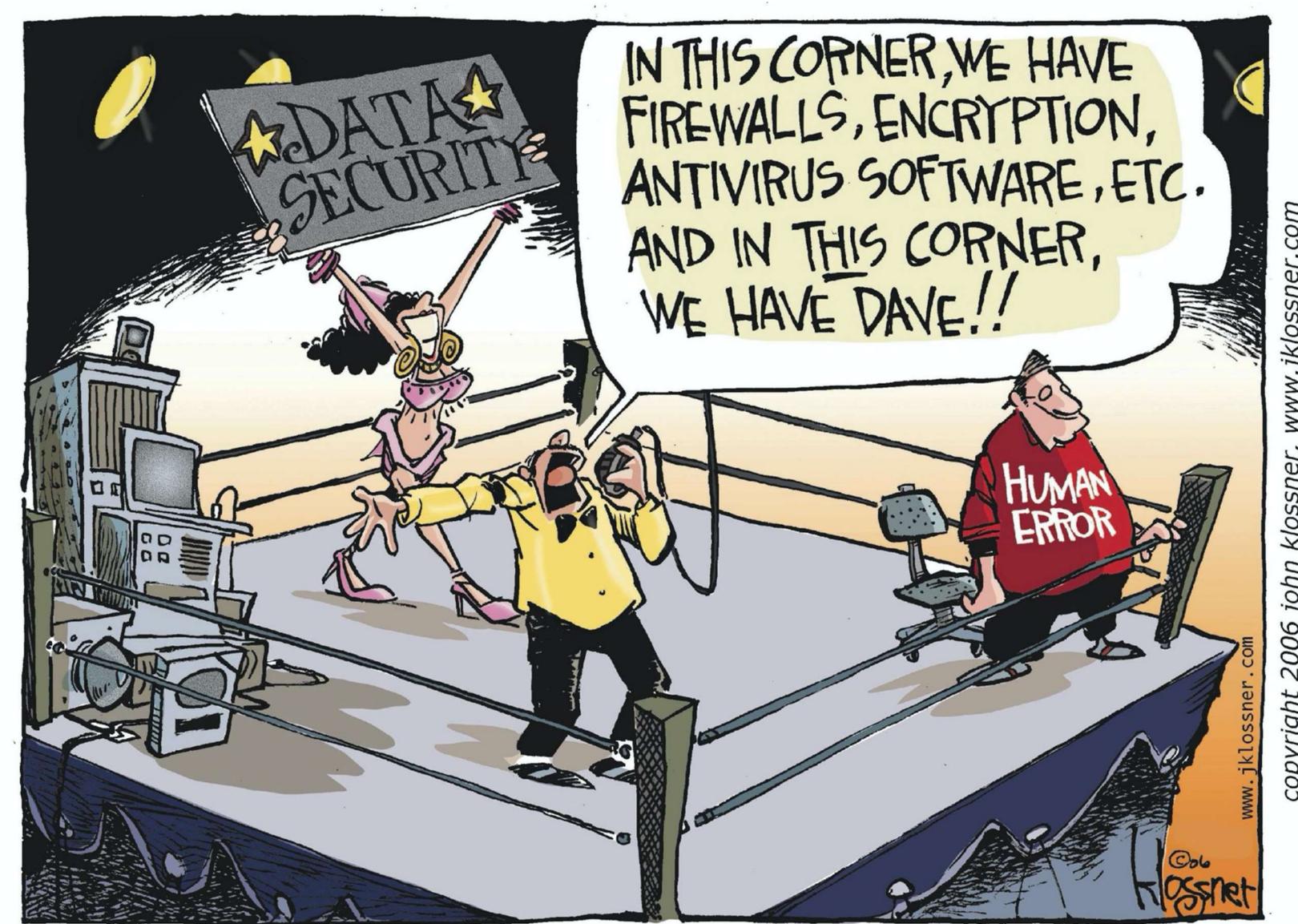


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HUMANS: THE WEAKEST LINK IN CYBER SECURITY



right 2006 john klossner, www.jklossne



But is it a 'complete' solution?

	What they Ask For?	Vs	What they really want?
PARENTS	Send the child to a good school	Vs	Success & Happiness for their child
CISOs	Security awareness & Training	Vs	Security when real attacks happen!

JOURNEY FROM A TO B: KEEP IT SIMPLE

ONE HUMAN CAN
CAUSE A BREACH

ONE HUMAN CAN PROTECT



Testimonial: Reality Check

In Month 4 of this program, we upped our 'Human Information Security Preparedness' score to over 94%!

Every time we get a real attack now is an opportunity for us to train our staff. I'm not afraid of real attacks - bring them on!

It's a game, it always was, but I am driving it now, and not the hackers!

- CISO, MAJOR GLOBAL CORPORATION

5 STEP PROCESS



THE FIVE PILLARS OF HUMANFIREWALL



PSYCHOLOGY

Alter the psychology of users and train them on 'How to identify phishing attacks?', no matter what type of attack.

MAKE USERS SUSPICIOUS BY NATURE. R

REPORTING

Create a 'Culture of Reporting' such that one user is enabled to save the entire organisation.

REPORT IT! DO NOTHING IS NOT AN OPTION.



REMEDIATION

Deep/Native integration into the core email services, such that attacks can be remediated in seconds

MITIGATE IN REAL TIME



ORCHESTRATION

SOAR Capability: API based or STIX based broadcasting of the 'Indicators of Compromise' across the organisation's cyber platforms to ensure enterprise-wide protection.

BROADCAST IOCS FOR ENTERPRISE WIDE PROTECTION



FEDERATION

Federate 'Indicators of Compromise' across all associated organisations and entities, to ensure that 'Bad actors' cannot try this across the sector.

FEDERATED IOCS FROM ACROSS THE INDUSTRY



There are over 20,000+ types of attack scenarios.

...How many can you train your people for?

It is impossible to train for all!

So what's the solution?

Alter their psychology!



HUMANFIREWALL STUDY: "What aspects of psychology do hackers leverage?" ANALYSED: Over 20,000 phishing incidents and their underlying scenarios

RESULTS: Here are the 7 aspects of psychology that are used by

hackers in over 95.3% of all scenarios studied:

Urgency
Fear
Greed
Obedience
Apathy
Hubris
Ignorance

• • •

The Game called HumanFirewall

1. Campaign Zero:

Benchmarking and Baselining Event. Where we were before this game rolled out?

2. Leadership Announcement Email:

To declare the game open.

3. Reporter Rollout:

A button that will be installed in all outlooks to remove the friction from reporting. One click and done.

4. GAME BEGINS

Scenario 1: Day 1

Scenario 2: Day 23

Scenario 3: Day 49

Scenario 4: Day 55

Scenario 5: Day 80

And so on...

Completely random attacks...some after 20 days, some in under 7 days.

NO ONE WILL KNOW WHEN THIS IS A REAL ATTACK AND WHEN THESE

ARE PART

OF THE GAME!

ALL ONE HAS TO DO IS PRESS THE REPORTER BUTTON

LEADERSHIP EMAIL

The core messages that make all the difference

01 SET THE TONE

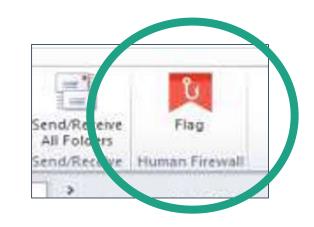
Humans are the weakest link in Cyber Security. Over 90 % of breaches happen at the human layer. AT OUR ORGANISATION – I WILL NOT TOLERATE US BEING PART OF THAT STATISTIC!

O2
AMBIGUITY

I have authorised our CIO/CISO to carry out 'X' attacks per year, on you and me! The attacks can occur across Email, Phone, Whatsapp, FB, Office, Home... anywhere... anytime! YOU AND I WON'T KNOW IF IT'S A REAL ATTACK OR A GAME BEING PLAYED BY THE THEM!

O3 HOW TO WIN So 'WHAT' do we do when we spot an attack?: REPORT IT or GET COMPROMISED.
BUT 'DO NOTHING' IS NOT AN OPTION FROM TODAY!

WHEN IN DOUBT – JUST PRESS THE EMERGENCY/SOS BUTTON INSTALLED IN YOUR OUTLOOK/OWA/GSUITE.



Security Awareness & Training

The 3 generations!

Spray & Pray!



Phishing Simulations Based Awareness & Training!



Spray Emails, Put up posters, Do tedious classroom trainings etc.

PRAY that everyone will see them!

Big leap up! Measurable Reports.

Training is worth nothing if it can't help remediate in the event of a real attack!

All that training & measurement, but for what?!

Gen 1 + Gen 2 + Remediation & Orchestration!



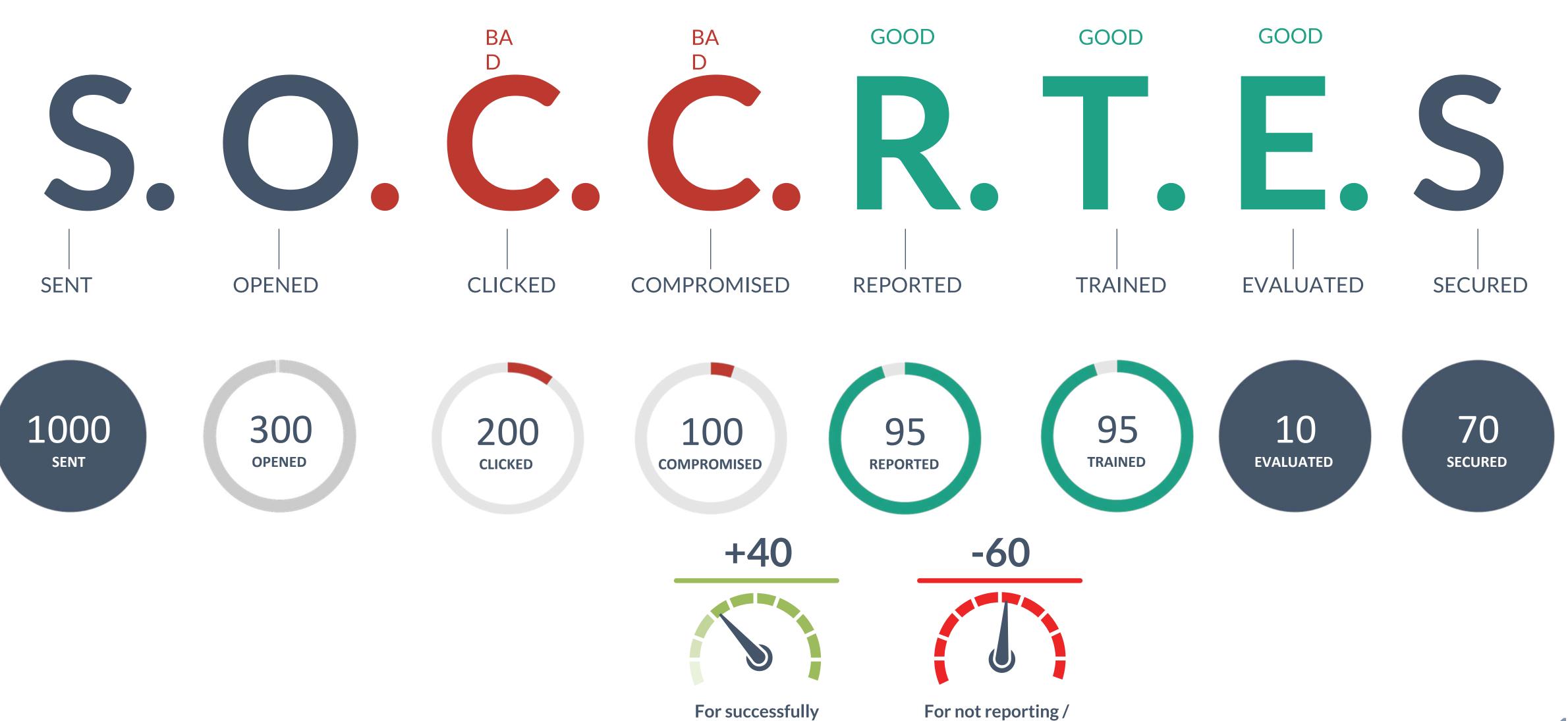
Armed with everything from Generation 1+2. Add a whole lot more automation + Learning Paths.

Move away from a campaign based approach, to a personalised, individual based approach + Add Real time remediation!

AND NOW use all that rich information to REMEDIATE REAL ATTACKS & ORCHESTRATE - Manual or Machine Learning based.

THE UNIQUE SOCCRTES FRAMEWORK

What you can measure, You can manage.

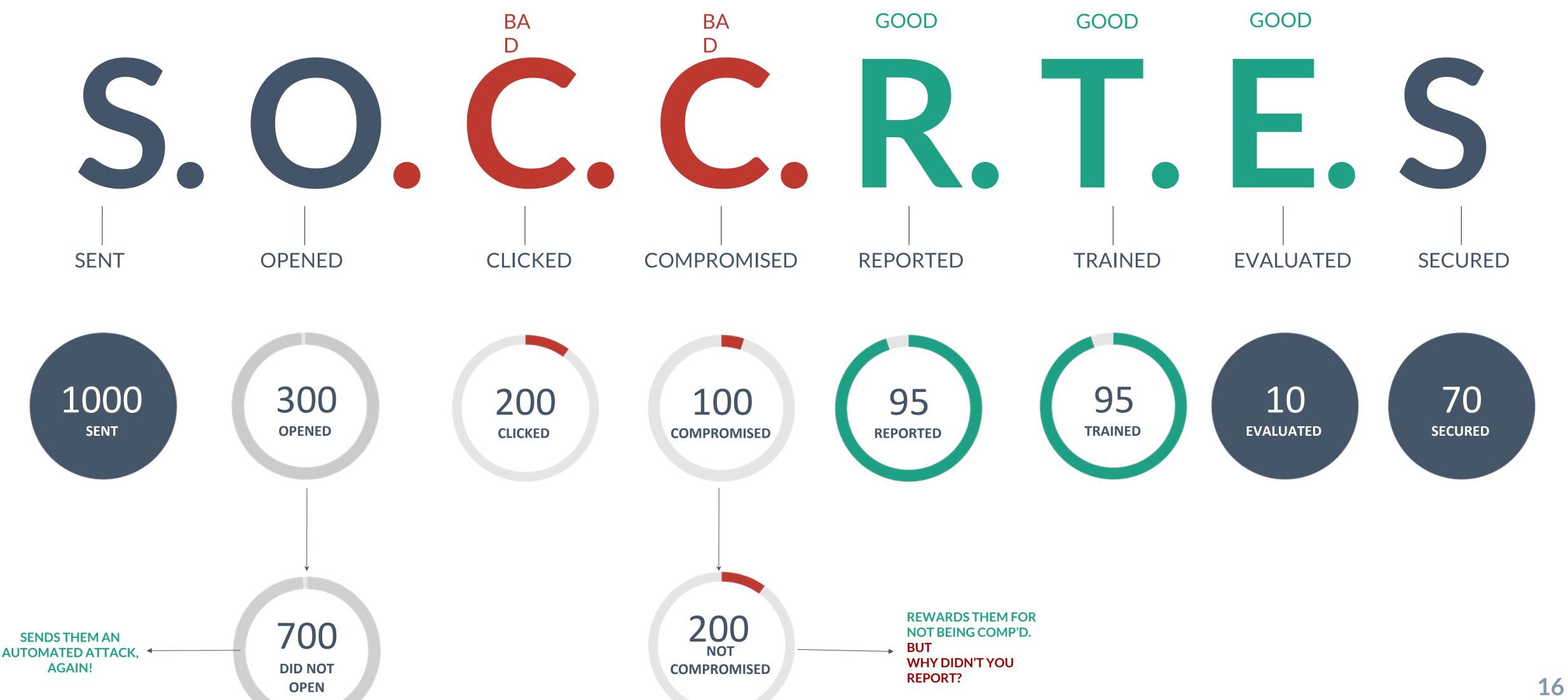


reporting an Email!

taking any action!

HUMANFIREWALL IS INDIVIDUAL BASED

What you can measure, You can manage.





FOR THE FIRST TIME EVER

GET THE TWO INDICES THAT MATTER THE MOST TO YOUR ORGANISATION

HCSA.

HUMAN CYBER SECURITY AWARENESS INDEX S

HISP.

HUMAN INFORMATION SECURITY PREPAREDNESS INDEX



FOR THE FIRST TIME EVER – GET YOUR HUMAN CAPITAL'S ACTUAL SECURITY POSTURE



HUMAN CYBER SECURITY AWARENESS INDEX

WHAT DOES IT MEAN FOR YOU?

- 1. Percentage level of 'Training': How many have completed how many training modules?
- 2. Champions Vs Weakest Links: Who are the fastest and most accurate reporters, and who are the weakest links, the 'repeat clickers'?
- 3. What are the weakest areas of cyber security training, and thus require specific attention?
- 4. Status of Old Vs New Staff: Have the new employees caught up in training with the old ones?
 - ++ SEVERAL OTHER MEASURABLE METRICS ++

TAKE THE GUESSWORK OUT, AND SHOW YOUR BOARD THE REAL SITUATION.

HOW?

- 1. Automated Onboarding via integration with AD/G Suite/O365/Lotus/Zimbra/LDAP/etc.
- 2. Automated 'Learning Path' completion and Accelerated mode for new staff, whenever they may join.

FOR THE FIRST TIME EVER – SEE HOW FAST YOUR EMPLOYEES PICK UP ON THE ATTACK

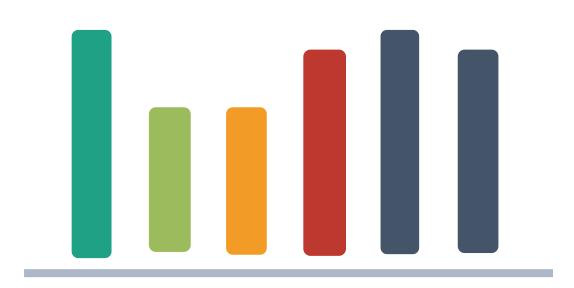


HUMAN INFORMATION SECURITY PREPAREDNESS INDEX

WHAT DOES IT MEAN FOR YOU?

- 1. Percentage of people who 'REPORT'?
- 2. Percentage of people who tend to get 'Compromised' or 'Lured'
- 3. Time to 'Report'
- 4. Time to 'Remediate'

++ SEVERAL OTHER MEASURABLE METRICS ++



TAKE THE GUESSWORK OUT, AND SEE HOW YOU WOULD FARE IN A REAL ATTACK.

HUMANFIREWALL: POSITIVE FEEDBACK LOOP

The more people we train, the more they report, the more protection is achieved



Real attacks are welcome because they help train the people + the platform!

Remediation

Taking action on Reporter Emails, Simplified.



EmailRemediator™ allows the administrator to take actions on all reported emails like Labelling, Quarantining and Deleting it across all inboxes in seconds!



Simplified Threat Intel: EmailRemediator™ dashboard automatically shows threat intel like hidden links, attachments, SPF, DKIM & DMARC status, Spam Scores and IP reputations on all reported emails, making it simple for the administrator to judge the authenticity of an email!

Threat Email Reported

Reported Email will reach the EmailRemediator Dashboard in real-time with an optional personalised message from the user.

Org - Wide Search for Same Email

The administrator can search all mailboxes for the recipients of the same Email / Potential Threat.

10 Sec



Now 5 Sec

30 Sec

Check for Red Flags

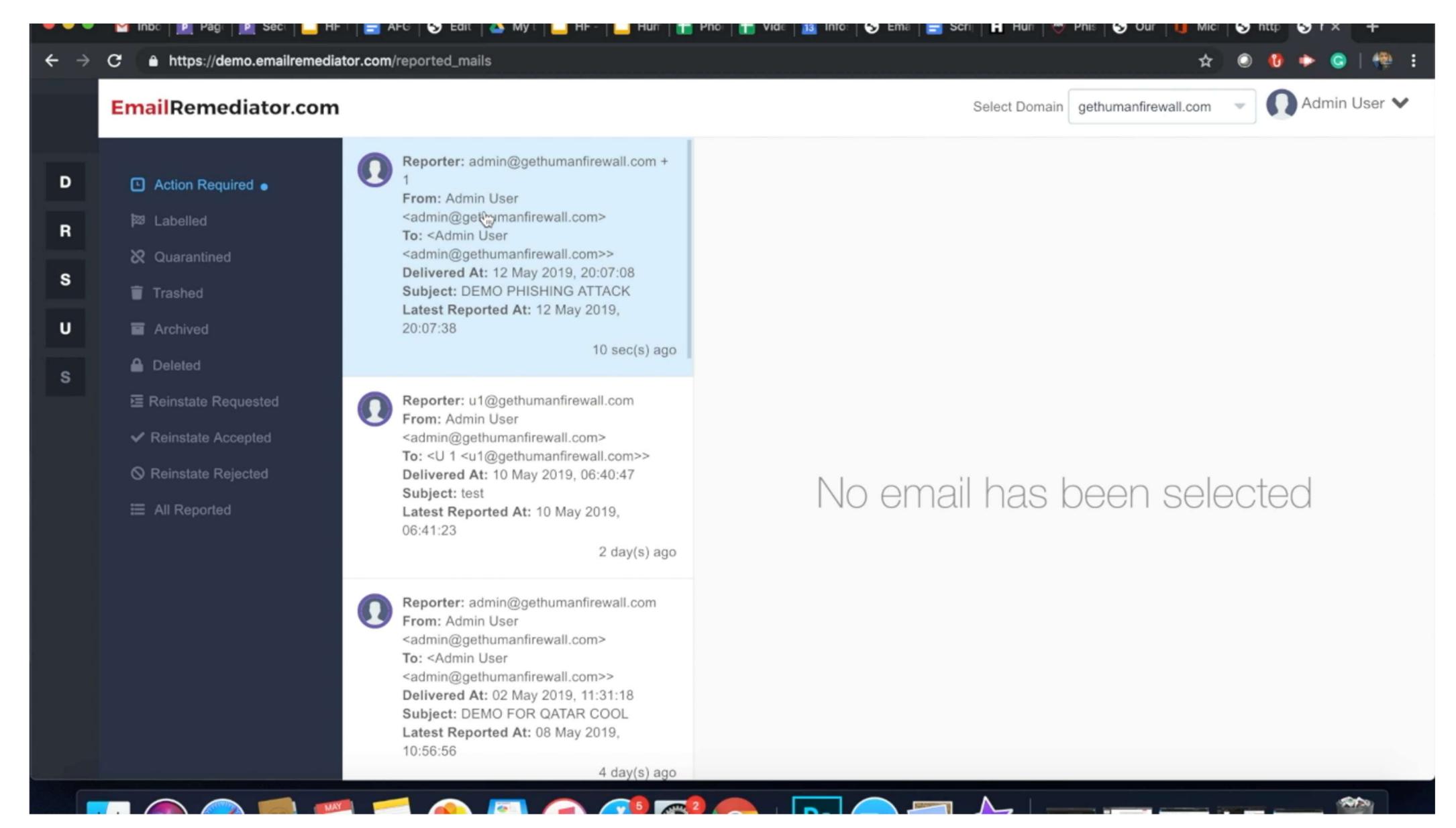
The administrator will check for red flags in the email through the Threat Intel provided on the dashboard.

Quarantine/Delete Email for all!

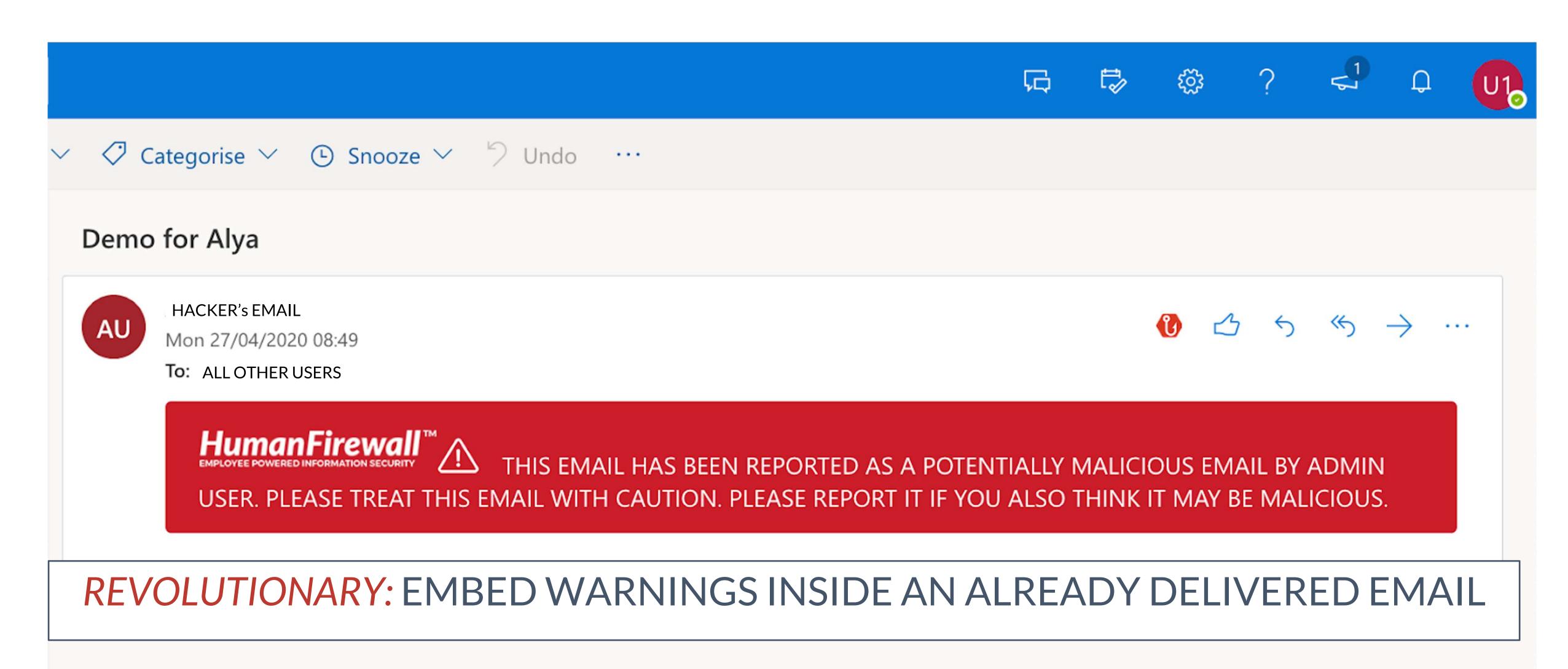
Threat mitigated! Administrator can take any action on that email in just 2 clicks!

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Email Remediator - Demo (VIDEO)



ALL OTHER RECIPIENTS GET AN ALERT EMBEDDED IN REAL TIME



MAN + MACHINE Presenting the 'Email Security Assistant'

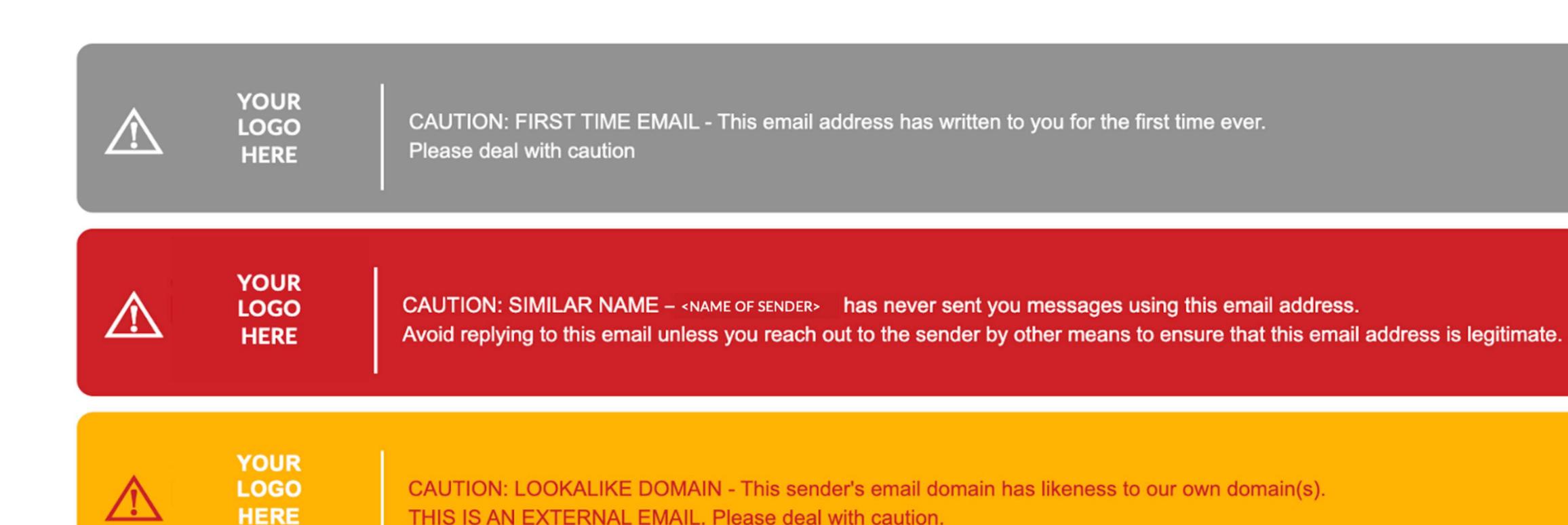
Augment with technology, What humans lack in attention







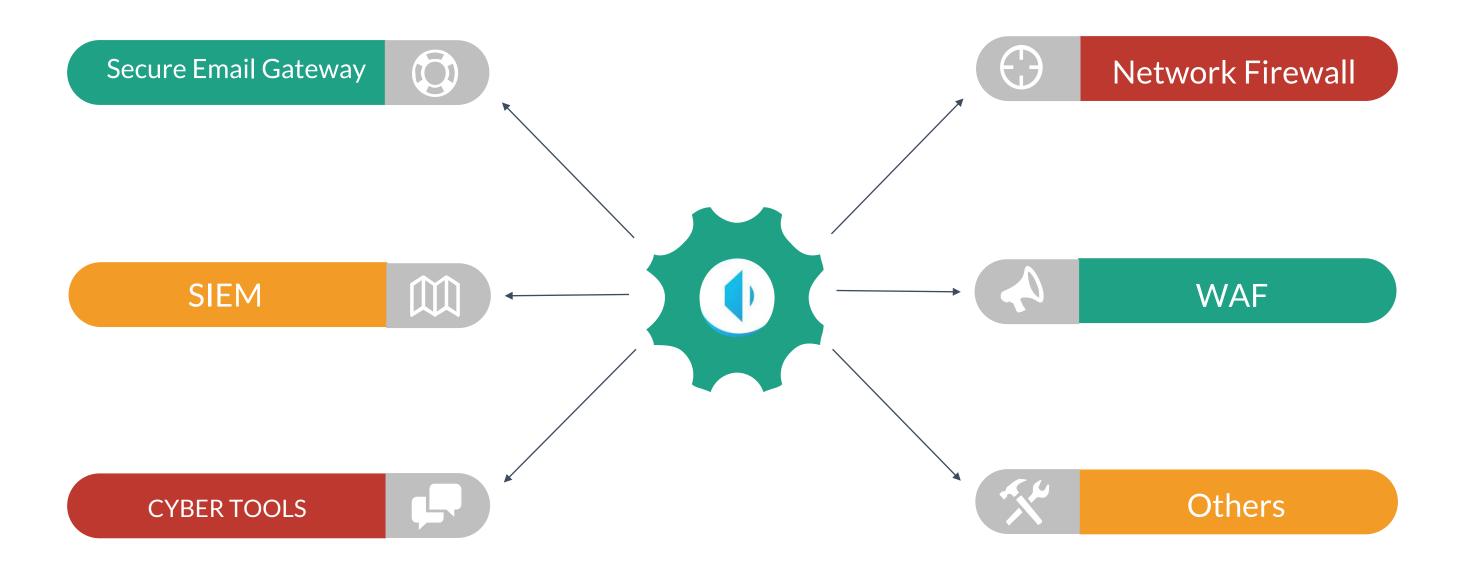
MAN + MACHINE Presenting the 'Email Security Assistant'



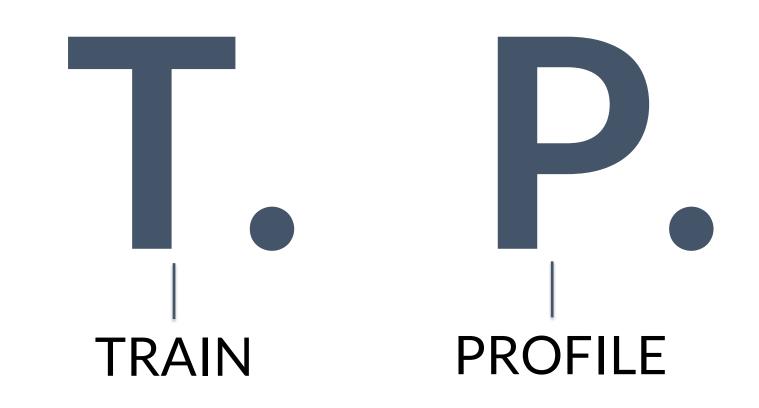
REVOLUTIONARY: EMBED WARNINGS INSIDE AN ALREADY DELIVERED EMAIL

Ensure a 360 degree protection.

SOAR Capability: API or STIX based broadcasting of "Indicators of Compromise" like IP addresses, URLs, Emails and more, to all other cyber products at your organisation!



THE SIX MODULES









HUMAN INFORMATION SECURITY PREPAREDNESS INDEX

The difference between school and life?

"In school, you're taught a lesson and then given a test. In life, you're given a test that teaches you a lesson."

SCHOOL APPROACH

1

Teach

Use personalised media to train individual employees through unique campaigns on email and SMS

Test

Use simulation on Email/ SMS to test that employees have individually understood the fundamental cyber security constructs

Remedy

Use crowd-powered phishing security mechanisms to protect the entire organisation

LIFE APPROACH

1

2

3

Test

Use simulation on Email/SMS to test that employees have individually understood the fundamental cyber security constructs

Teach

Use personalised media to train individuals employees through unique campaigns on email and SMS

Remedy

Use crowd-powered phishing security mechanisms to protect the entire organisation

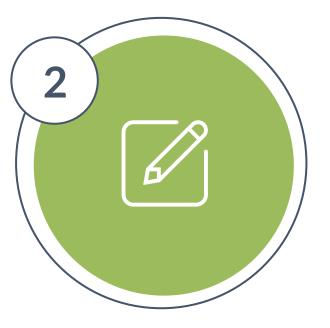
DIFFERENTIATORS

WHY HF IS THE PLATFORM OF CHOICE?

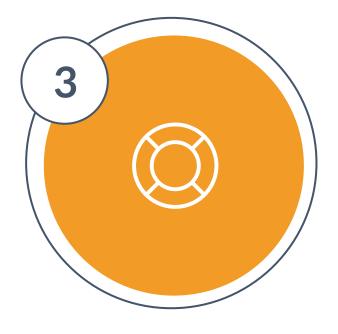


ON-PREMISE OR CLOUD

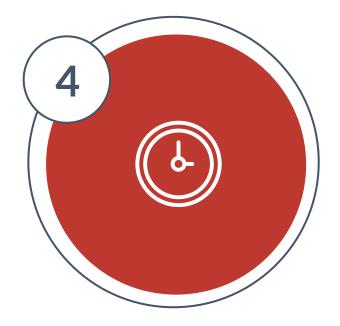
AVAILABLE AS A MANAGED SERVICE



INDIVIDUAL BASED



FULLY GAMIFIED



MULTI LINGUAL CONTENT



REAL TIME
PEOPLE POWERED
SECURITY
END TO END

THANK YOU





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