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HUMAN ELEMENT

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Nudging through Numbers



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Why most compliance messages fail – where security awareness programs lack



95% of cyber incidents involve human error, Cyber threat – the biggest threat today Are users deploying coping mechanisms?



How We learn today

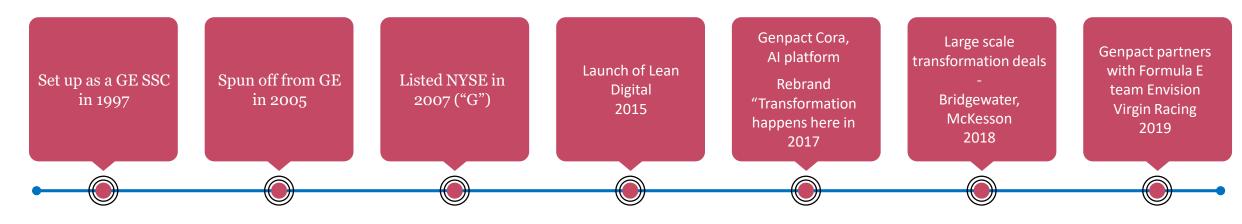




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Introduction

Genpact at a Glance













Genpact at a Glance

Set up as a GE SSC in 1997

Spun off from GE in 2005

Listed NYSE in 2007 ("G")

Launch of Lean Digital 2015

Genpact Cora, Al platform

Rebrand "Transformation happens here in 2017

Large scale transformation deals

> Bridgewater, McKesson 2018

Genpact partners with Formula E team Envision Virgin Racing 2019





















delivery centers,

countries



47+
Languages









Our Program

Build a program

Baseline controls in place

Improve maturity

Increase Focus on Key profiles Personalize Security Training













Our Program



elearning modules



Our Program



Assessments, Videos, SharePoint, Email, Quiz, Games, Events, Targeted trainings, Champions Program...



We seemed to be on the right track

Training completion rate



Our internal phishing click rates were



External Survey - Among the top 2 for 3 consecutive years





But, were we?

Training completion rate



Our internal phishing click rates were





Security Violations

External Survey - Among the top 2 for last 3 years





What was causing it?

- Do users really understand the risks?
- Are we focusing on the right behaviors?
- Are users fully engaged?
- Are we measuring the right things?



What if

- Security was easy to understand and part of users day to day job?
- Users are made aware of only what they need to know?
- Security was engaging and fun?
- Are we measuring the right The security behaviors could be measured?



Target

Do users really understand the risks?

Are we focusing on the right behaviors?

Are users fully engaged?

Are we measuring the right things?

- Make it Easy
- Use Small Steps
- Make it Fun
- Measure it



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Introducing

My Cyber Score

An individualized Security Score based on the user's security behavior, threat profile, computer's health and privileges

What is my cyber score





Key Considerations

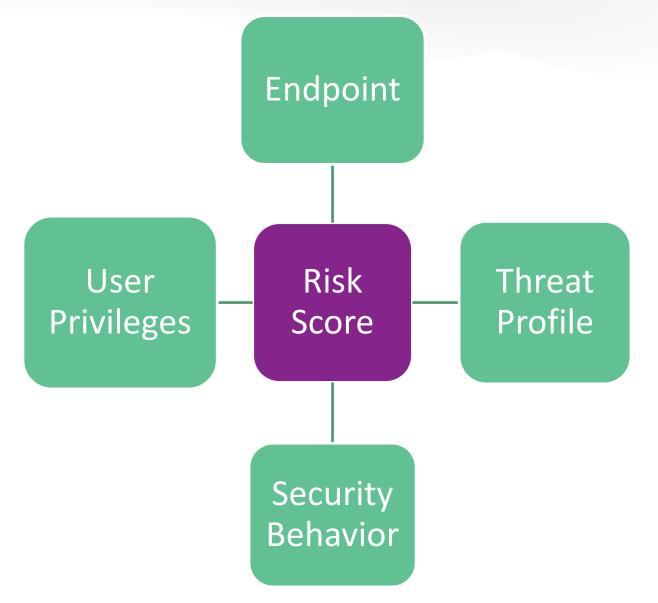
- Internal Vs External
- Fast Vs Perfect
- One Score Vs Multiple Scores



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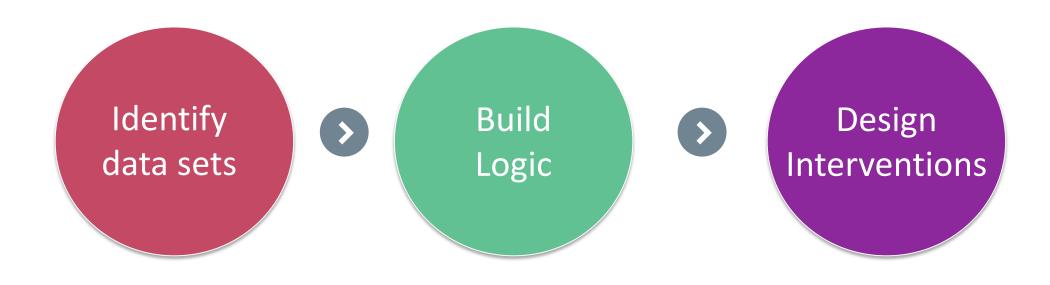
How did we go about it?

Step 1 – Identify Sources of Risk





Step 2 – Identify Data Sources, Build Logic and Design Interventions





Step 3 - Roll out Campaign

- Communication Plan
 - Communication team
 - IT and Infosec Leadership
 - Pilot Group Business Leaders
- Roll out campaign
 - Explain the concept focus on WHY
 - Give helpline contact



Sample Email





Personal Computer (PC) score: 71%

Oops... your device is missing security configurations.

Raise a HelpMate ticket, using "My Cyber Score" category, to fix it.

Be a Security Warrior and help us protect Genpact!

PC safeguards		Recommendation	Score impact
	Vulnerability status	You PC is missing security patches or critical security configurations. Raise a HelpMate ticket, using "My Cyber Score" category, to fix it.	+ 50
•	Malware protection	The anti-malware tool on your system is up and running.	~
	Encryption	Your Laptop is encrypted. Your data is safe.	
6 =	Data protection	The Data Protection tool, that keeps sensitive data from leaking is up and running.	
(((e)))	Internet security	Your connectivity to Internet is secure.	/



Behaviour score: 93% Awesome!! You are exhibiting the right security behaviors. Keep it Up! Score impact Recommendation Behavior parameters You've steered clear of suspicious links and emails in all our assessments. However you have missed to report suspicious emails to information security team. Please keep up the good work Phishing and report all suspicious emails to the information security team. Security You haven't been involved in any security incidents. Way to go! incident Role-based Your security trainings are complete. trainings You are protected against USB threats. Good going!



Risk score: 85%

Watch out! You need to be more vigilant. Our systems have detected that:

Risk Parameters		Recommendation	Score Impact
	Credential breach	Awesome! You were not part of any data breach. Your Credentials are safe.	
<u>•</u>	Targeted malicious emails	We have not detected any targeted attacks (emails) heading towards you. You are protected for now!	~
	Access to data (PII/SPI etc)	You have sensitive information on your system. We understand that you need this data in your day-to-day activities. However we recommend that you work towards improving PC Score.	+ 20
	Local Administrator Access	You do not have Local Administrator access on your PC. This helps in reducing security risks in Genpact!	



Step 4 – Track Progress and Evolve

- Resistance to Change Push required at start
- Track progress number of tickets raised/interventions employees engaged in etc.
- Gather feedback
 - Leadership buy in— VoC will help to upgrade to bigger audience
 - Employees



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Outcome

Outcome

- Holistic user score based on 20+ parameters
- 30% increase in user tickets and queries
- Focused remediation of defects led to lower risk



Case Study

Month 1

What's your cyber score?

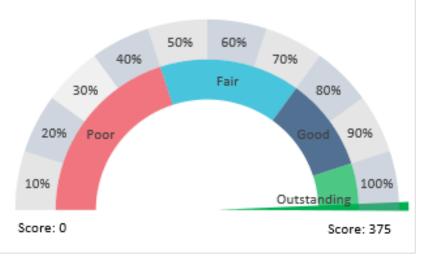
Hi Your cyber score is 300 Good job! By the way, the average score of Genpacters is 306.



What's your cyber score?

Month 2

Hi Score has increased from 300 to 370. Keep up the good work!





Leadership Feedback

"Its very cool"

Vidya Srinivasan

Global Risk Leader, Genpact "This is Super Awesome and coming along really well"

Ramachandra Hegde

Chief Information Security Officer, Genpact "Guys, Fantastic progress and am so very keen to see this go places. Kudos to all of you behind this!!!!"

Sriram Lakshman

Global Security
Assurance Leader,
Genpact



Next Steps for Us

- Increase scope
- Add more nudges
- Build more accountability
- Automate System
- Near-Real time scoring
- Get more leaders onboard



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Apply

What you should do Next Week

- Identify if your users feel burdened with security training
- If there are security incidents
 - either users are not getting the right training or
 - the training is not effective or
 - they are making mistakes
- Do you have security behavior/culture metrics? What does it include?



3 Months Plan

- Identify existing data sets
 - Work with IT don't just look at training
 - End Point tells a lot
- Which behaviors are the most important
- Work on a logic to score users
- Get stakeholders onboard for a pilot
 - Start where the risk is the highest
 - Get Privacy team onboard



6 Months Plan

- Roll out the pilot to a limited group
 - Align it to your company's culture
- Gather feedback
- Take decision on next steps



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Questions?