## Human-Centric Security For The Era Of Digital Transformation

**Duncan Brown** EMEA Chief Security Strategist



Data Protection | Web Security | CASB | NGFW | Advanced Malware Detection | Behavioral Analytics | Insider Threat | Email Security | Data Guard | Cross Domain



## \$1 Trillion has been spent over the past 7 years on Cybersecurity, and yet...





46% say they can't prevent attackers from breaking into internal networks each time it is attempted.

100% of CIOs believe a breach will occur through a successful phishing attack in next 12 months. Enterprises have seen a 26% increase in security incidents despite increasing budgets by 9% YoY.

Sources: Verizon 2018 Data Breach Investigations Report

Digital Transformation Will Unlock Tremendous Value... If Cybersecurity Challenges Can Be Addressed

## \$100 trillion

The value that the World Economic Forum estimates will be created from digitalization over the next 10 years. "What are the greatest challenges in digital transformation?"

Security	31%
Technology strategy	24%
Company culture	23%
Lack of technology skills	20%

Source: Forrester: The Sorry State Of Digital Transformation in 2018.

## Four Elements Of Digital Transformation That Create Advantage And Risk



security vulnerabilities.

Forcepoint Proprietary © 2019 Forcepoint | 5



What is the best way to reduce risk and secure an environment you increasingly don't own or fully manage?

Humans and Data

## Users And Data Must Be At The Center Of Your Design Thinking

User and data interactions are distributed, diverse and dynamic - this breaks traditional security architectures and increases business risk



### Users And Data Must Be At The Center Of Your Design Thinking

User and data interactions are distributed, diverse and dynamic - this breaks traditional security architectures and increases business risk

### Traditional Security



20

**Degree of Digital** Transformation

### Human-Centric Cybersecurity Changes Everything

**Traditional Security** 



One-to-many enforcement of static, generic policies, producing high false positive rates.

### Human-Centric Security



One-to-one enforcement of different policies based on the risk, enabling automation.

### **Risk-Adaptive In Action**

Senior sales rep, Copenhagen, DK





No corporate data at risk

**Saturday** February 9 @ 6am

Bulk copy to USB drive

+ Additional Context



**Risk-Adaptive Protection** 

Action is blocked & account is locked

Avoided \$10M breach and forensic proof of the attack is available Do privacy concerns outweigh security objectives?

## You're tracking my what???!!!

# Processing personal data for security is a legitimate interest

"The processing of personal data to the extent strictly necessary and proportionate for the purposes of ensuring network and information security ... constitutes a legitimate interest of the data controller concerned."

**GDPR Recital 49** 

## We already "monitor" our users

- Logins & Failed login attempts
- Application access
- Presence (Skype, WhatsApp, Chatter, Slack, etc)
- Cloud apps (sanction, blocked, tolerated, etc)
- Web filtering
- White- and black-listing
- Endpoint process monitoring
- Phishing awareness campaigns
- Physical card swipes for office access

### We often don't...

- > Join these dots to create an overall risk profile for each user
- Have a framework for transparency that protects our users, customers and partners

https://www.forcepoint.com/blog/insights/behaviour-analysis-privacy-preserving-technology



Q COMPANY ▼ SUPPORT & TRAINING ▼ FIND A PARTNER

Data & IP •
Cloud & Network •
Insider Threat •
Our Platform •
Industries •
Resources •

Home: Blogs: Behaviour analysis is a privacy-preserving technology

## Behaviour analysis is a privacypreserving technology

Share

TUESDAY, MAY 07, 2019

**Duncan Brown** 



in

The positioning of privacy versus security with behavioural analysis is a false dichotomy, based on several misconceptions. You ought to be able to have both security and privacy. Indeed, behavioural analysis can enhance privacy, rather than threaten it. Here's why.

## Gartner's Continuous Adaptive Risk and Trust Assessment (CARTA)

"We need security infrastructure and security decisions to become continuous and adaptive – enabling real-time decisions that balance risk, trust and opportunity and the speed of digital business."

"We must have visibility into what the entity – the user – is doing once it gains access. How is it behaving? Does the entity or its behaviors represent excessive risk? If so, then we should have the ability to detect this, confirm that it is real, prioritize it and take action."

Neil MacDonald, Gartner Research Note G00351017, April 10th 2018

## Forcepoint is a Zero Trust platform notable vendor

"The last line of any Zero Trust strategy is limiting and strictly enforcing the access of users and securing those users as they interact with the internet. This encompasses all the technologies necessary for authenticating users and continuously monitoring and governing their access and privileges."

> Chase Cunningham The Zero Trust eXtended (ZTX) Ecosystem Extending Zero Trust Security Across Your Digital Business January 19, 2018

### Forrester

FOR SECURITY & RISK PROFESSIONALS

### The Zero Trust eXtended (ZTX) Ecosystem

Extending Zero Trust Security Across Your Digital Business

by Chase Cunningham January 19, 2018

#### Why Read This Report

Security pros are still scrambling for new and effective ways to protect their networks and combat the impacts of hacking and exploitation. With Forrester's Zero Trust Model of information security, you can develop robust prevention, detection, and incident response capabilities to protect your company's vital digital business ecosystem. This report will help security pros understand the technologies best suited to empowering and extending their Zero Trust initiatives and will detail how Forrester sees this model and framework growing and evolving.

#### Key Takeaways

Zero Trust Platforms Are Emerging The days of cobbling together disparate technologies to protect and secure the network are going the way of the dinosaur. Major security vendors are building powerful platforms focused on enabling Zero Trust strategies. Choosing which platform to use is vital in your Zero Trust planning.

#### Strategy Must Drive The Technology

In many other areas, technology capabilities compose the crux of selection criteria. However, to achieve a Zero Trust network, strategy is more critical than the technology will ever be. Your strategy should always drive the technology selection.

#### No API, Look Elsewhere

Any vendor or technology worth their salt will have advanced API integration available for your team to use for development purposes as well as to integrate other security solutions into your Zero Trust ecosystem. If your selected technology doesn't have solid APIs to use, find another vendor that does.

## Industry awareness is growing...

"It is evident that the industry must shift from the technology and process centric view to a human centric view and adopt the knowledge from behavioural theories to be successful in the digital age of cybersecurity."

Cybersecurity Culture Guidelines: Behavioural Aspects of Cybersecurity European Union Agency For Network and Information Security (ENISA) Published April 16, 2019



## Thank you

## duncan.brown@forcepoint.com



Forcepoint Proprietary © 2019 Forcepoint | 19