

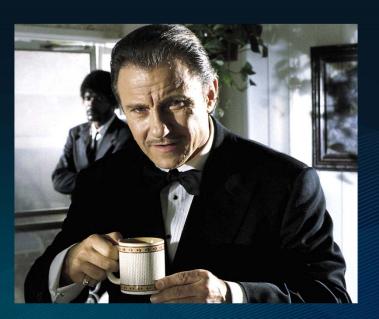
# WHERE DOES CYBERSECURITY GO FROM HERE?

# HANG ON – IT'S ABOUT TO GET WEIRD

Richard Bird
Chief Customer Information Officer

#### "THAT GUY"

- 20 plus years in corporate roles
  - M&A (app, infra, ops)
  - IT Ops (infra, app, sec)
  - "C" (CIO, CISO)
  - Banking, high tech manufacturing, fintech
- Solving problems customer, operations, technology and security
- Was the buyer and operator for a long time
- Translate complexities into understand-ables: regulations, tech strategies, business requirements

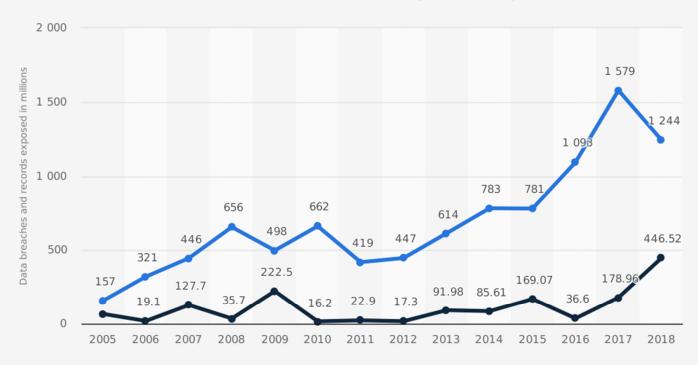


### THE OUTCOMES – FOR 2018

- According to the Identity Theft Resource Center
  - 388 fewer breaches in 2018, but 248,902,586 more unique identity records were stolen just in the United States
    - 446,515,334 unique records were exposed
- According to Herjavec Group
  - Total global losses to cybercrime damages will be \$6 trillion worldwide
    - That's doubling in 6 years \$3 trillion lost worldwide in 2015
- According to Gartner
  - \$114 billion in total information security product and services spend
    - Which means, globally we spent \$114 billion to lose somewhere between \$4 and \$5 trillion

Which of these results or forecasts suggests that we're "winning"?

# Annual number of data breaches and exposed records in the United States from 2005 to 2018 (in millions)



◆ Data breaches ◆ Million records exposed

Source Identity Theft Resource Center © Statista 2019 Additional Information:

United States; Identity Theft Resource Center; 20 05 to 2018

### WE GOT HERE BY DESIGN

The history of information security is the history of traditional defensive warfare tactics....

- Firewalls Emperor Augustus, 20 B.C.
- Encryption cyphers, codes, puzzles
- Authorization seals, couriers, signets
- Networks mazes, groundworks, tunnels
- Authentication call and response, code words
- Isolation moats, walls, containers, air gaps, segmentation
- Attack surface



# WHAT ABOUT THAT CLOUD... YOU KNOW, ALL THAT CLOUD STUFF?

The "cloud" didn't innovate past boundaries, borders and perimeters...

It simply moved data and applications to a bigger and more interconnected set of data centers with buckets

Ever seen an infrastructure diagram for a cloud data center?

Regardless of the hardware – we're now seeing repeats of the same human errors related to security that we used to/still see on-prem

# CAN'T WE JUST MAKE PEOPLE MORE "CYBER" AWARE?

- Security outcomes haven't changed, even with more money, energy and resources spent on awareness training
- Most companies rarely exceed an annual training for all associates
- Virtually no companies have security awareness training for their customers

So, why don't security awareness campaigns get us the results we want?



#### **HEY DAVE – DON'T CLICK THAT LINK**

20% of Americans don't lock their doors
And
63% of all burglary losses had no forced entry

13% of Americans don't wear a seat belt

And

47% of crash fatalities were unbuckled drivers

14% of Americans still smoke
And
90% of lung cancer patients were or are smokers

Almost all fall deaths in US National Parks were in locations where signs clearly marked the dangers and were ignored – in most recent times – to get that "perfect" selfie.

# DO YOU WANT SECURITY OR DO YOU WANT TO BE A PEOPLE PERSON?

- Governance
- Policy
- Standards
- OperatingProcedures

**Identity Management** 

- On-boarding
- Off-boarding
- Transfers
- Death
- Contractors

Identity Control

- All access is known
- All access is authenticated
- All access is approved
- All access is authorized
- All access is certified



#### **MANAGEMENT OR CONTROL?**

#### **Access Management Is Administration**

All access is known

All access is authenticated

All access is approved

All access is authorized

All access is certified

Security Qualifiers

you are? Do you have what you are supposed to have?

Identity is the core of security

Are you who you say

Are you doing what you are supposed to be doing?

Can I see you everywhere?

**Access Control Is Security** 

<sup>\*</sup> Simplifies the control obligations required by SOX - which applies to 4,300 US companies and several hundred or more foreign countries with US

## Regulatory Driven Disruption

#### **Today**

US

- S.3744: Senate Data Care Act
- Enhanced Cybersecurity Regulation
- Federal (US) Data Privacy?

EU





Digital Single Market Cybersecurity

#### **Tomorrow**







## Technology Driven Demands

- (1) API all the things!
- (2) Hybrid by design (not by accident...)
- 3 Data driven, continuous authentication
- 4 Intelligence focused on the identity (not the asset)

## Authentication Becomes Everything....

- Inevitable collision between CIAM and workforce
  - Healthcare, insurance and banks in particular exposed to the multi-personality risk associated with employees who are also customers
- Identity Proofing is just the beginning
- Global Authentication Authorities will begin to aggregate enough data and intelligence to start the long needed process of unifying digital self with analog self
  - One "self" instead of hundreds

### Global Authentication Evolution

Workforce Identity



Customer Identity

Identity Proofing



Global Authentication

Global Authentication



Unified Identity

# Open Banking to Open Business to Open Everything RETAIL **BANKING** GOVERNMENT HEALTHCARE



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