

## Senior Manager / Security Practice Lead Rausch Advisory Services

Background in Information Security, IT Audit, Systems Development, & Database Administration

Fortune 500 Experience:







Built the Global "CyberThreat Unit" for a Fortune 100 including Incident Response, Digital Forensics & Investigations, Threat Intelligence, & Penetration Testing

Leveraged Data Analytics to quantitatively measure risk and security effectiveness through Metrics & KPIs

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## Agenda

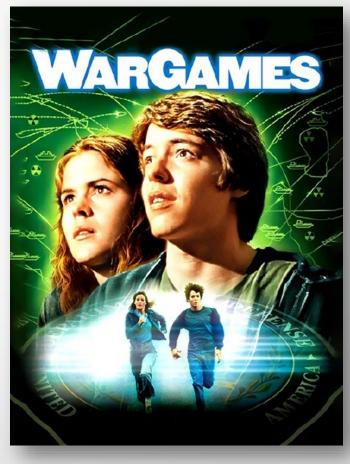
- How do we know?
- What did we learn in 2021?
- What does this mean to Internal Audit?



#### How Do We Know?

- Comprehensive Crime Control Act of 1984
- Computer Fraud and Abuse Act of 1986





"a realistic representation of the automatic dialing and access capabilities of the personal computer."

House Committee Report (H.R. Rep. 98-894, 1984)



# What sources can we use today?

But... do you think any will give you

"a realistic representation..."

?

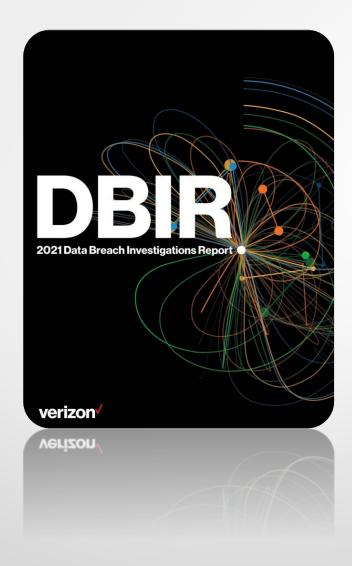








### Perhaps there is a better way?





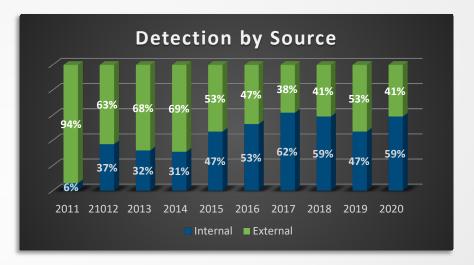


#### What Did We Learn in 2021?



The leading cause of **Incidents** was **Denial of Service**The leading cause of **Breaches** was **Social Engineering** 

&
System Intrusion
contributed heavily to both
Incidents & Breaches



Average dwell time - 24 Days
When detected Internally - 12 Days
When detected Externally - 73 Days

Ransomware is a key ingredient; constantly changing & evolving

Rising focus on compromising Active Directory to create malicious GPOs



7

#### What Does This Mean to Internal Audit?

What is your exposure to **Denial of Service** attacks?

Have you considered Layer-7 (Application) and Layer-3 (Volumetric) attacks?

Do you know the difference?

Does your Security Team?





Where are your **defenses**? Are they **effective**?















**VOIP & BackOffice** 

SaaS | PaaS | IaaS



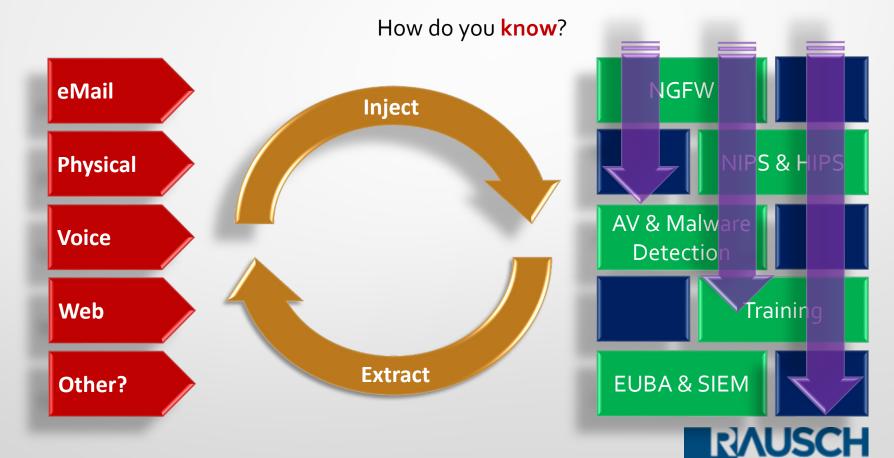
Site<sub>2</sub>Site | VPN | VDI



#### What Does This Mean to Internal Audit?

What is your exposure to **Social Engineering**?

What & where are your controls? Are they mature? Are they effective?



#### What Does This Mean to Internal Audit?



Average dwell time - 24 Days
When detected Internally - 12 Days
When detected Externally - 73 Days
Source: M-Trends 2021 Report

What is your organization's dwell time? (How) Do you calculate it?

What can you learn from your longest dwell time events?



# Questions?

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