

13TH ANNUAL LEADERSHIP EVENT



CYBER SECURITY SUMMIT

cybersecuritysummit.org

RESILIENCE UNLOCKED

TITLE SPONSOR



Island

#cybersecuritysummit #css13



Rethinking Security

What Are We Doing Here?



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023

in    

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

A decorative graphic in the bottom right corner showing a globe with glowing data lines and a network structure.

Mr. Jeff Man

Director, DEI Hak4Kidz
Information Security Evangelist
InfoSec Curmudgeon
“Cyber Legend”/OG Hacker

@MrJeffMan

301-310-4275

jeff@rihackers.com



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023

in    

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED



My Background

- 13 years with the Department of Defense
 - Certified Cryptanalyst
 - Designed Cryptosystems and Cryptologic Aids
 - Founding Member of Systems & Network Attack Center
- 16+ years as a PCI Qualified Security Assessor (QSA)
 - Lead Assessor/Assessment Team Member
 - Trusted Advisor
- 3 years with a Software Vendor
 - PCI Subject Matter Expert
 - Thought Leader
 - Security Strategist
- 27+ years of commercial professional services
 - Penetration Testing
 - Vulnerability Assessments
 - Security Architecture



A Little About Me



NSA years

Cryptanalyst
Inventor
Innovator
InfoSec Analyst
Assessor
Hacker



1984



**“We’re Behind
Schedule”**

National Security Agency



CYBER SECURITY
SUMMIT
www.cybersecuritysummit.org

13th Annual Cyber Security Summit | October 24-26, 2023

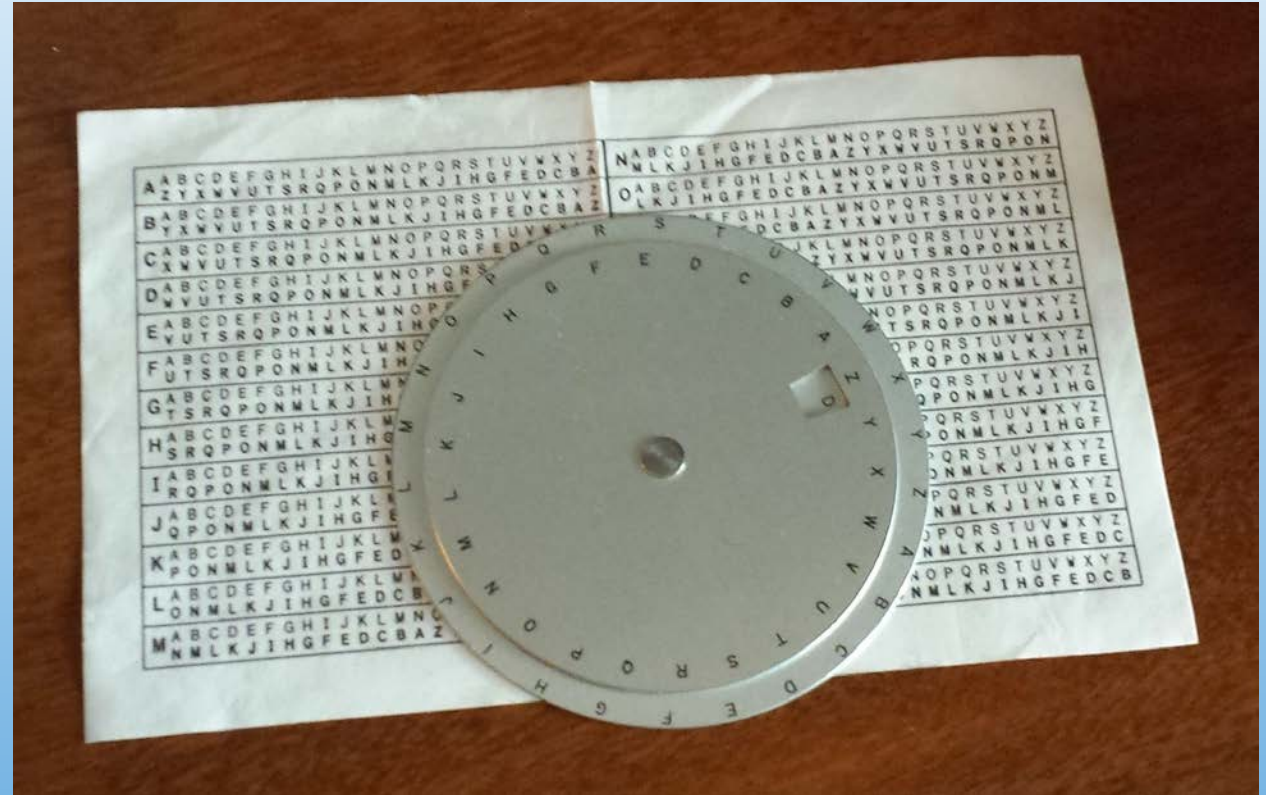
in    

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

The "Whiz Wheel" – Cryptographic Cipher Disc

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
A	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A
B	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A	Z
C	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A	Z	Y
D	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A	Z	Y	X
E	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A	Z	Y	X	W
F	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A	Z	Y	X	W	V
G	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A	Z	Y	X	W	V	U
H	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A	Z	Y	X	W	V	U	T
I	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A	Z	Y	X	W	V	U	T	S
J	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A	Z	Y	X	W	V	U	T	S	R
K	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A	Z	Y	X	W	V	U	T	S	R	Q
L	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A	Z	Y	X	W	V	U	T	S	R	Q	P
M	N	M	L	K	J	I	H	G	F	E	D	C	B	A	Z	Y	X	W	V	U	T	S	R	Q	P	O
N	M	L	K	J	I	H	G	F	E	D	C	B	A	Z	Y	X	W	V	U	T	S	R	Q	P	O	N
O	L	K	J	I	H	G	F	E	D	C	B	A	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M
P	K	J	I	H	G	F	E	D	C	B	A	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L
Q	J	I	H	G	F	E	D	C	B	A	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K
R	I	H	G	F	E	D	C	B	A	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J
S	H	G	F	E	D	C	B	A	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I
T	G	F	E	D	C	B	A	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H
U	F	E	D	C	B	A	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G
V	E	D	C	B	A	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F
W	D	C	B	A	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E
X	C	B	A	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D
Y	B	A	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C
Z	A	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B



The First Software-Based Encryption System



CYBER SECURITY
SUMMIT
www.cybersecuritysummit.org

13th Annual Cyber Security Summit | October 24-26, 2023

in    

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

DS
DS

*The National Security Agency/
Central Security Service*

takes pleasure in presenting a Letter of Appreciation to

JEFFREY E. MAN



JUNE 1991

We want to convey our appreciation to you for your magnificent contribution to our fighting forces and the Nation during Operation Desert Shield/Storm. From the outset of Desert Shield and through the extremely successful completion of Desert Storm, you responded splendidly. Your dedication, perseverance, selflessness and professionalism were key factors in our victory.

We learned some very valuable lessons from Desert Shield/Storm, but above all we learned that hard work and self-sacrifice will always serve this Nation well.

Thank you for a job well done.

Donald L. Parsons
Donald L. Parsons
Deputy Director for Operations

W.O. Studemay
W. O. Studemay
Vice Admiral, U.S. Navy
Director



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023

in

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED



DARK TERRITORY

THE
SECRET HISTORY
OF
CYBER WAR

FRED KAPLAN

AUTHOR OF *THE INSURGENTS*



CONTENTS

<u>CHAPTER 1</u>	<u>“Could Something Like This Really Happen?”</u>	<u>1</u>
<u>CHAPTER 2</u>	<u>“It’s All About the Information”</u>	<u>21</u>
<u>CHAPTER 3</u>	<u>A Cyber Pearl Harbor</u>	<u>39</u>
<u>CHAPTER 4</u>	<u>Eligible Receiver</u>	<u>57</u>
<u>CHAPTER 5</u>	<u>Solar Sunrise, Moonlight Maze</u>	<u>73</u>
<u>CHAPTER 6</u>	<u>The Coordinator Meets Mudge</u>	<u>89</u>
<u>CHAPTER 7</u>	<u>Deny, Exploit, Corrupt, Destroy</u>	<u>107</u>
<u>CHAPTER 8</u>	<u>Tailored Access</u>	<u>119</u>
<u>CHAPTER 9</u>	<u>Cyber Wars</u>	<u>145</u>
<u>CHAPTER 10</u>	<u>Buckshot Yankee</u>	<u>171</u>
<u>CHAPTER 11</u>	<u>“The Whole Haystack”</u>	<u>191</u>
<u>CHAPTER 12</u>	<u>“Somebody Has Crossed the Rubicon”</u>	<u>203</u>
<u>CHAPTER 13</u>	<u>Shady RATs</u>	<u>221</u>
<u>CHAPTER 14</u>	<u>“The Five Guys Report”</u>	<u>237</u>
<u>CHAPTER 15</u>	<u>“We’re Wandering in Dark Territory”</u>	<u>265</u>



CYBER SECURITY
SUMMIT
www.cybersecuritysummit.org

13th Annual Cyber Security Summit | October 24-26, 2023



#cybersecuritysummit #css13

RESILIENCE
UNLOCKED



mander's personal computer, sending him false information, thus distorting his view of the battlefield and leading him to make bad decisions, which, in a real war, could have meant defeat.

The NSA had a similar group called the Red Team. It was part of the Information Assurance Directorate (formerly called the Information Security Directorate), the defensive side of the NSA, stationed in FANEX, the building out near Friendship Airport. During its most sensitive drills, the Red Team worked out of a chamber called The Pit, which was so secret that few people at NSA knew it existed, and even they couldn't enter without first passing through two combination-locked doors. In its workaday duties, the Red Team probed for vulnerabilities in new hardware or software that had been designed for the Defense Department, sometimes for the NSA itself. These systems had to clear a high bar to be deemed secure enough for government purchase and installation. The Red Team's job was to test that bar.

Minihan's idea was to use the NSA Red Team in the same way



The Pit – was really a team of hackers



CYBER SECURITY
SUMMIT
www.cybersecuritysummit.org

13th Annual Cyber Security Summit | October 24-26, 2023



#cybersecuritysummit #css13

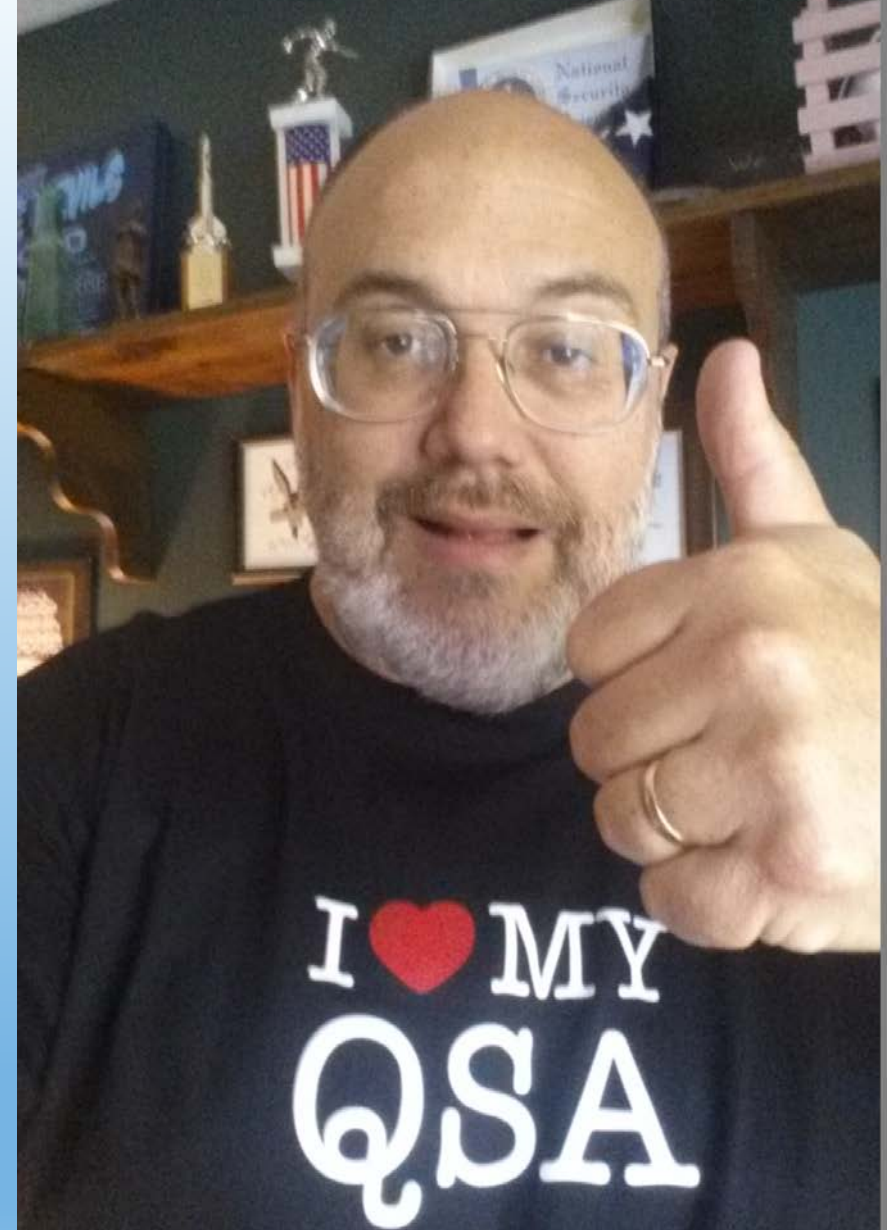
RESILIENCE
UNLOCKED



Twenty Years and counting...



**QUALIFIED SECURITY
ASSESSOR**



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023



#cybersecuritysummit #css13

**RESILIENCE
UNLOCKED**



CYBER SECURITY
SUMMIT
www.cybersecuritysummit.org

13th Annual Cyber Security Summit | October 24-26, 2023

in

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

My First Lesson in Data Security



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023



#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

A decorative graphic in the bottom right corner showing a globe with glowing blue data lines and connections, symbolizing global connectivity and data security.

Ironically, it was 1984...

Summer Intern

Naval Surface
Weapons Center



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023



#cybersecuritysummit #css13

RESILIENCE
UNLOCKED



My summer assignment



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023

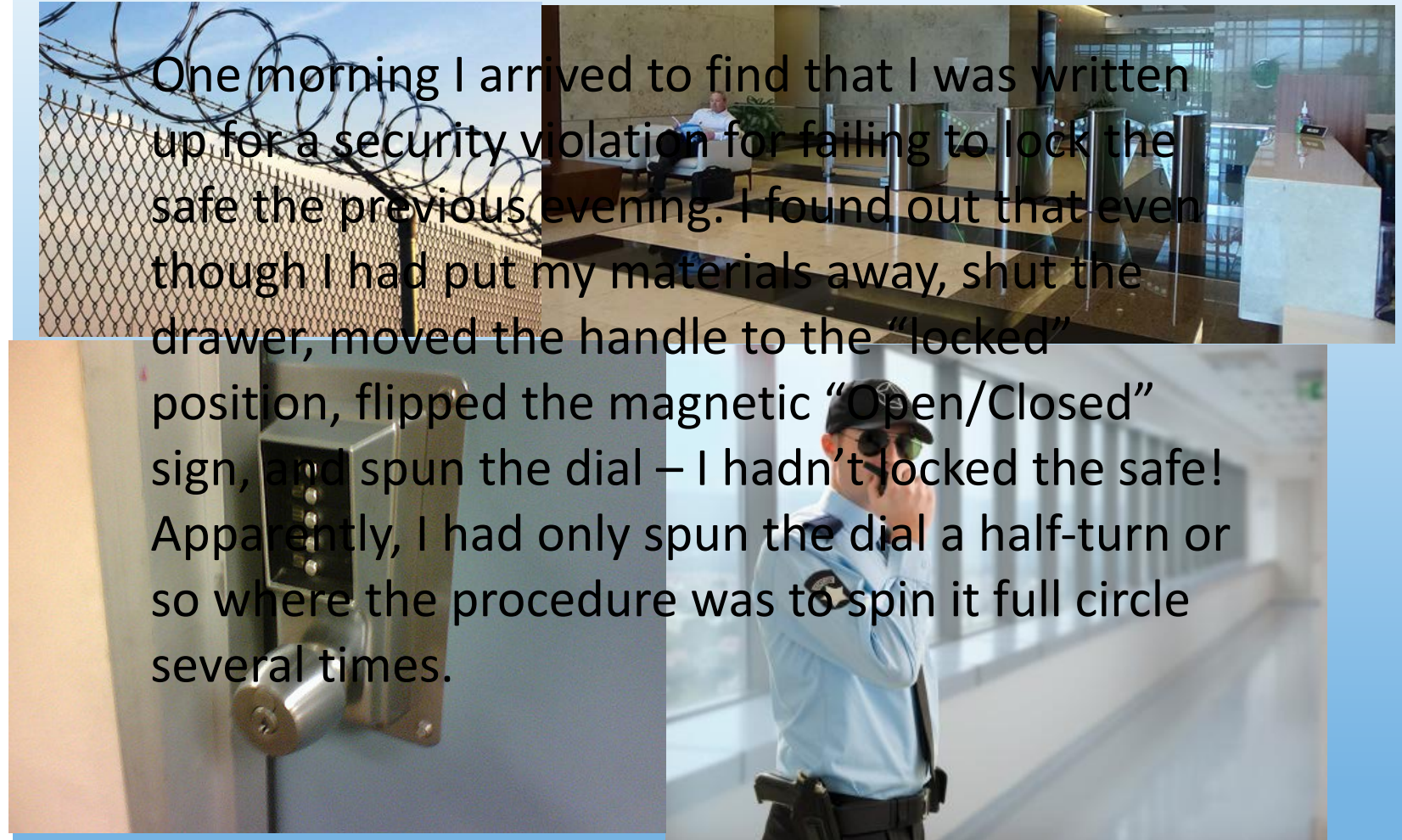
in    

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED



My first lesson in Data Security



One morning I arrived to find that I was written up for a security violation for failing to lock the safe the previous evening. I found out that even though I had put my materials away, shut the drawer, moved the handle to the “locked” position, flipped the magnetic “Open/Closed” sign, and spun the dial – I hadn’t locked the safe! Apparently, I had only spun the dial a half-turn or so where the procedure was to spin it full circle several times.








**Curmudgeon
To Do List:**
 Coffee
 No
 Get Off My
Lawn

**So what's
been
bothering me?**



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023
in    
#cybersecuritysummit #css13

**RESILIENCE
UNLOCKED**



MEET THE NEW BOSS —

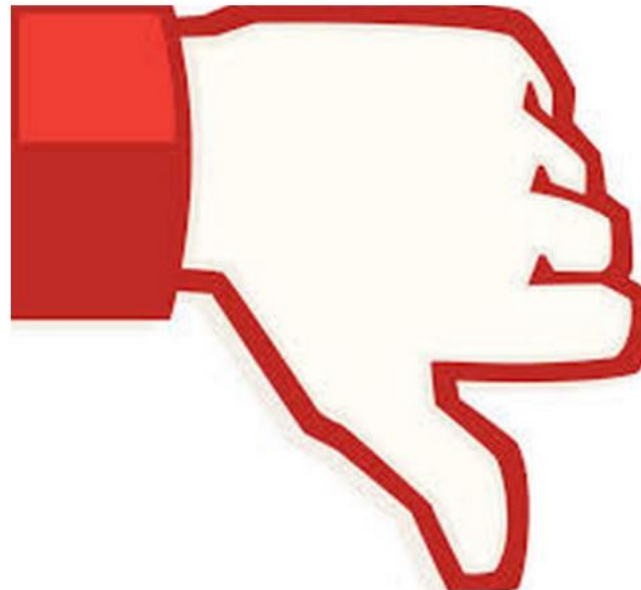
Serious flaws leave WPA3 vulnerable to hacks that steal Wi-Fi passwords

Next-gen standard was supposed to make password cracking a thing of the past. It won't.

21 Facebook Stored Hundreds of Millions of User Passwords in Plain Text for Years

MAR 19

Hundreds of millions of Facebook users had their account passwords stored in plain text and searchable by thousands of Facebook employees — in some cases going back to 2012, KrebsOnSecurity has learned. Facebook says an ongoing investigation has so far found no indication that employees have abused access to this data.



reless hackers in your computer.

Security

Patch blues-day: Mic after some PCs are i secure (and unboota update

Sophos, Avast users left w older OSes

By Richard Speed 11 Apr 2019 at 13:25



Clearly Something is NOT Working



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023

in

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

REALLY Not Working...



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023

in    

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED



**Technology alone
will never solve the
problem...**

Technology IS the problem



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023



#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

A decorative graphic in the bottom right corner showing a globe with glowing blue data lines and connections, symbolizing global connectivity and data security.

Humanity is technologically
connected but institutionally
divided



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023

in    

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

A decorative graphic in the bottom right corner showing a globe with glowing blue lines representing a network or data flow.

But You've Got This, Right?



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

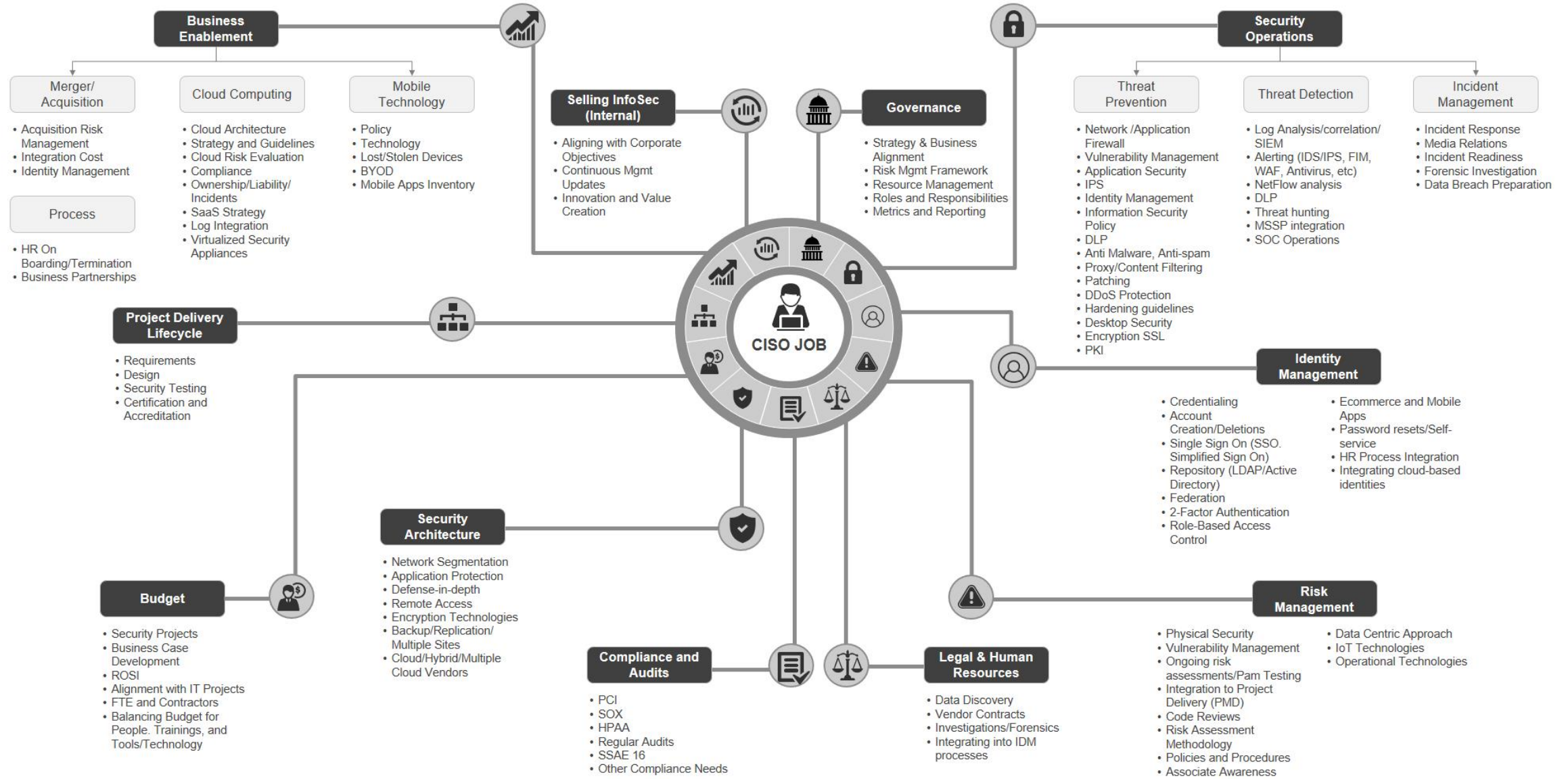
13th Annual Cyber Security Summit | October 24-26, 2023



#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

CISO Mind Map



Sales: This product is stupid.
Service: Customers are stupid.
Finance: This system is stupid.
Development: Users are stupid.
Operations: Programmers are stupid.
Security: I wish I was stupid.

Sometimes We Are The Problem



Rethinking Security...

Maybe we haven't learned all the lessons from the past



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023



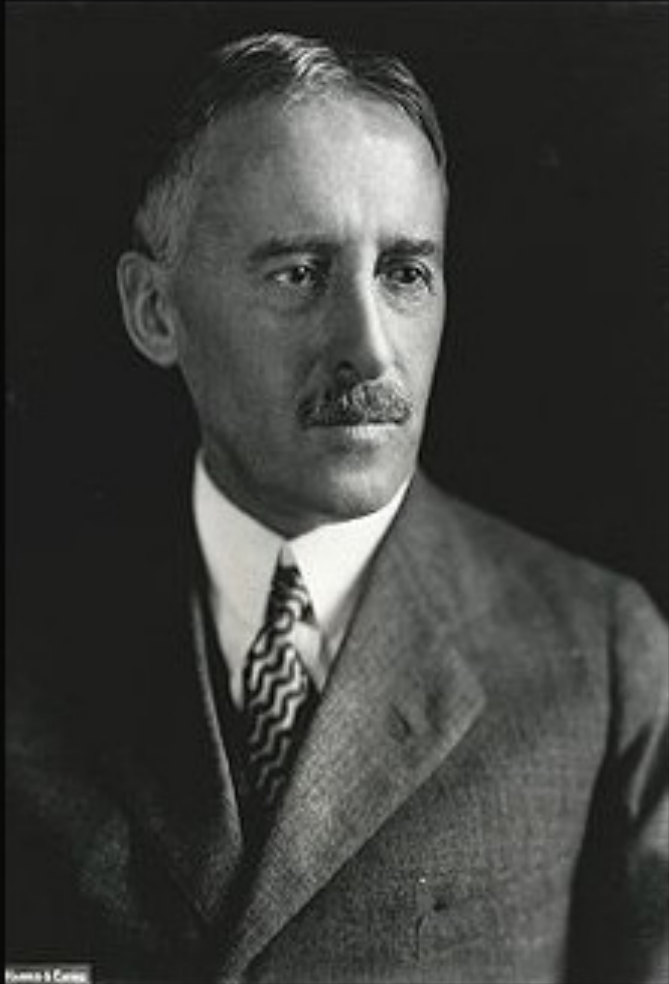
#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

A decorative graphic in the bottom right corner showing a globe with glowing blue data lines and connections, symbolizing global connectivity and digital resilience.

~~OPPRESS~~
~~ARCH~~

DON'T Tell Me
What To Do!!



Gentlemen don't read each other's mail.
(Henry L. Stimson)

izquotes.com



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023

in    

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED



Data Security Triad

Confidentiality

- Stealing Data
 - Local (System, Application)
 - Network (Repositories)

Integrity

- Fraud
 - Altering legitimate data
 - Using previously stolen data
 - Identity theft

Availability

- Denial of Service
- Ransomware



S₁ E₁ T₁ E₁ C₃

A₁ S₁ T₁ R₁ O₁ N₁ O₁ M₃ Y₄



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

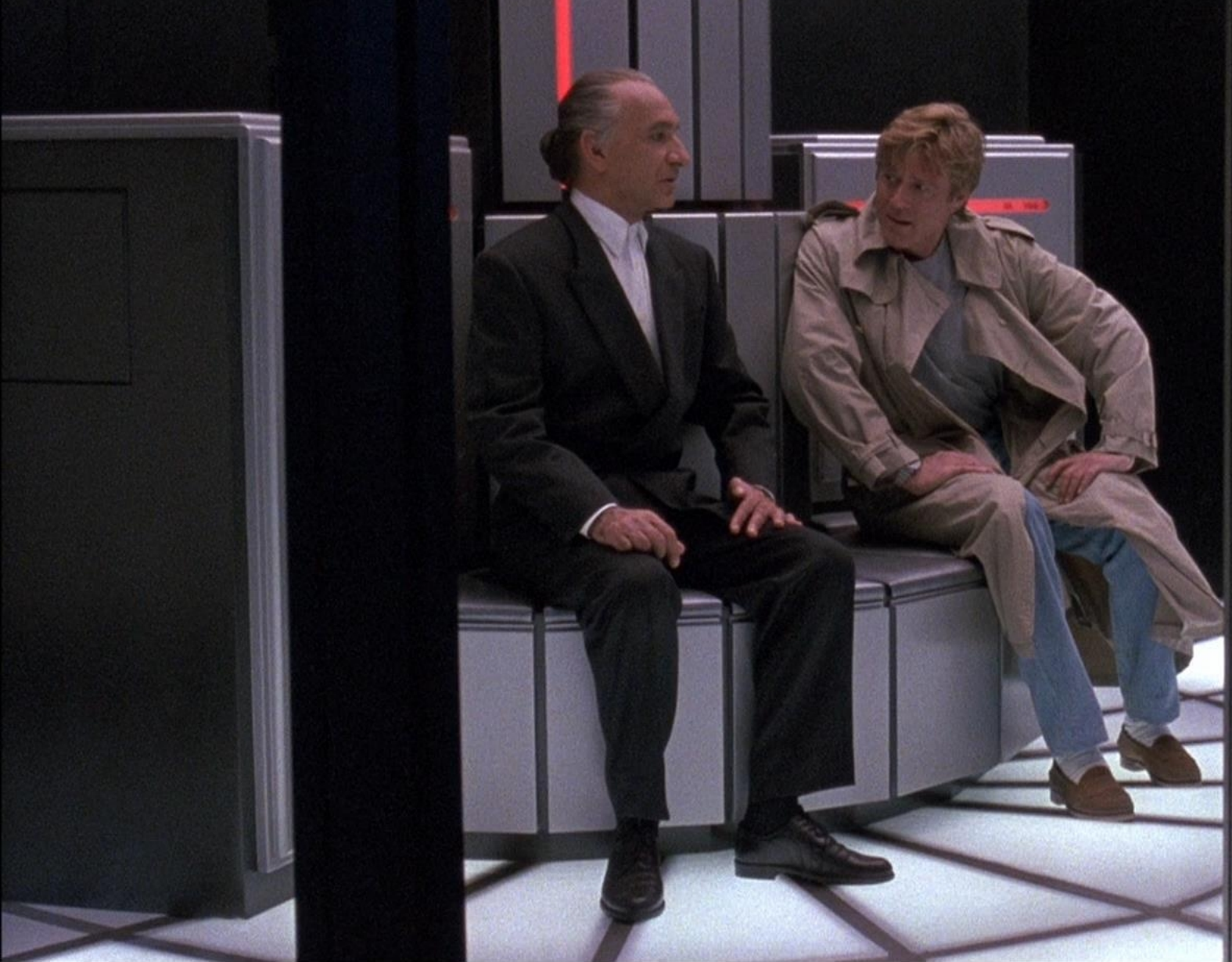
13th Annual Cyber Security Summit | October 24-26, 2023

in    

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

A decorative graphic in the bottom right corner showing a globe with glowing blue and purple data lines and connections.



Ben Kingsley and Robert Redford, **Sneakers**, 1992, Universal Pictures



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023

in   

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED





The Cray X-MP (retired) Supercomputer



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023

in    

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED



“What can be created by man
can be broken by man.”

– NSA Chief Scientist



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023



#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

A decorative graphic in the bottom right corner showing a globe with glowing blue data lines and connections, symbolizing global connectivity and data security.

Here's my Pitch

Let's look back at the origins of what we're doing – the basic risk equation



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023



#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

A decorative graphic in the bottom right corner featuring a globe with glowing data lines and a blue light effect.



The Classic Risk Equation

(notice security isn't even mentioned here)



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023

in    

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED



Risk Components

Vulnerabilities (weaknesses)

- Bugs/Features
- Misconfigurations
- Processes
- People

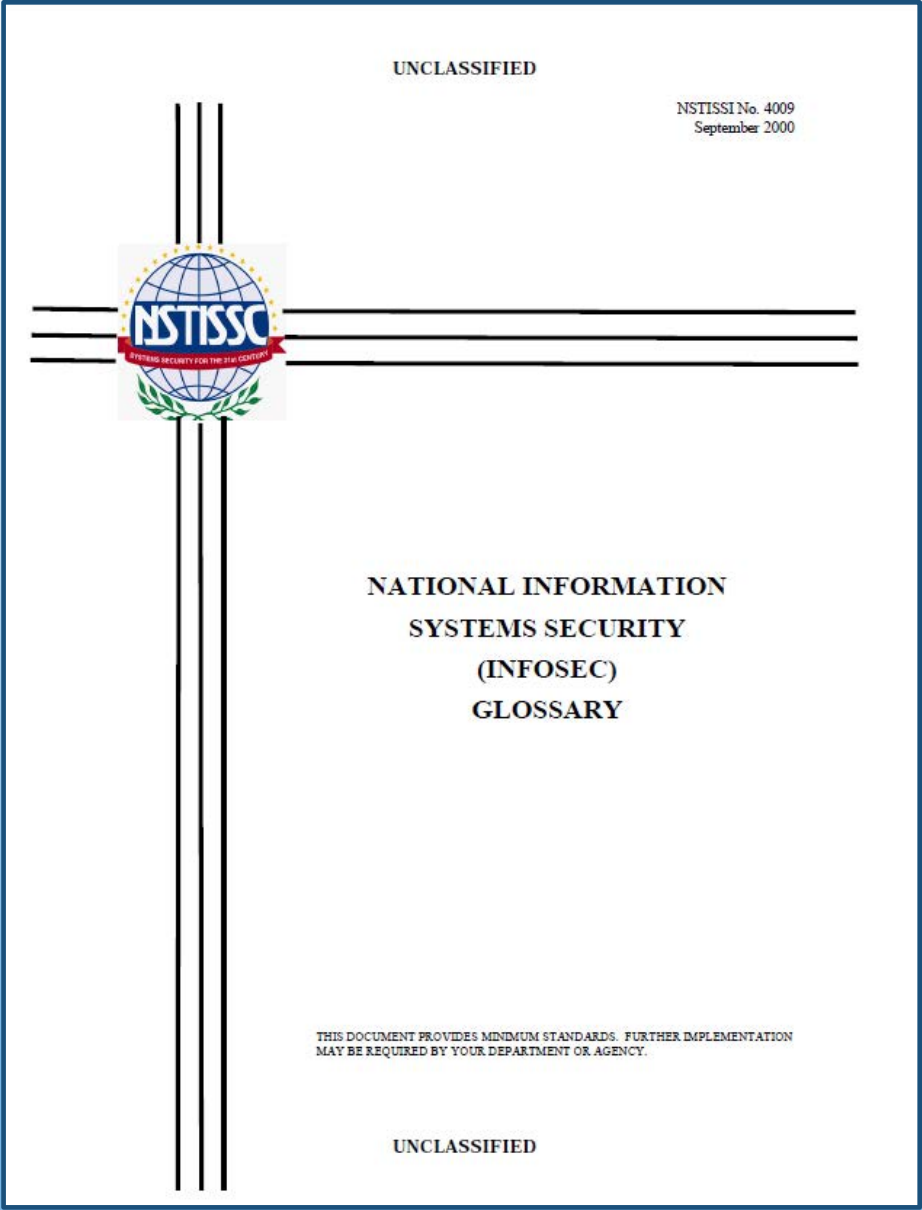
Threats (badguys)

- Data thieves
- Fraudsters
- Nation States

Countermeasures (mitigation)

- Detection
- Response
- Recovery





Everything you
ever wanted to
know about
InfoSec...and it's
online these days!



RISK

Possibility that a particular threat will adversely impact an information system by exploiting a particular vulnerability.

- National Information Systems Security (INFOSEC) Glossary



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023



#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

A decorative graphic in the bottom right corner showing a globe with glowing blue and purple network lines and data points.

THREAT

Any circumstance or event with the potential to adversely impact an information system through unauthorized access, destruction, disclosure, modification of data, and/or denial of service.

- National Information Systems Security (INFOSEC) Glossary



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023



#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

A decorative graphic in the bottom right corner showing a globe with glowing blue and white data lines or circuitry overlaid on it.

“Threat Intelligence” c. 1998

Threats

Disgruntled, Former and Temporary Employees
Hackers
Industrial Espionage
The Media
Criminal Activity
Natural Events and Accidents
Blunders, Errors, Omissions
Terrorists
National Intelligence

Motives

Access to Data
Disrupt Operations
Steal \$\$, Products, or Services
Obtain Free Use of Resources
Visibility, Publicity, Chaos
Embarrass Target, Retribution
Thrill, Challenge
Competitive Advantage



VULNERABILITY

Weakness in an information system, system security procedures, internal controls, or implementation that could be exploited.

- National Information Systems Security (INFOSEC) Glossary



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023

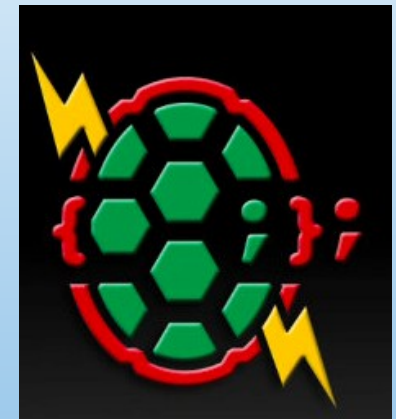


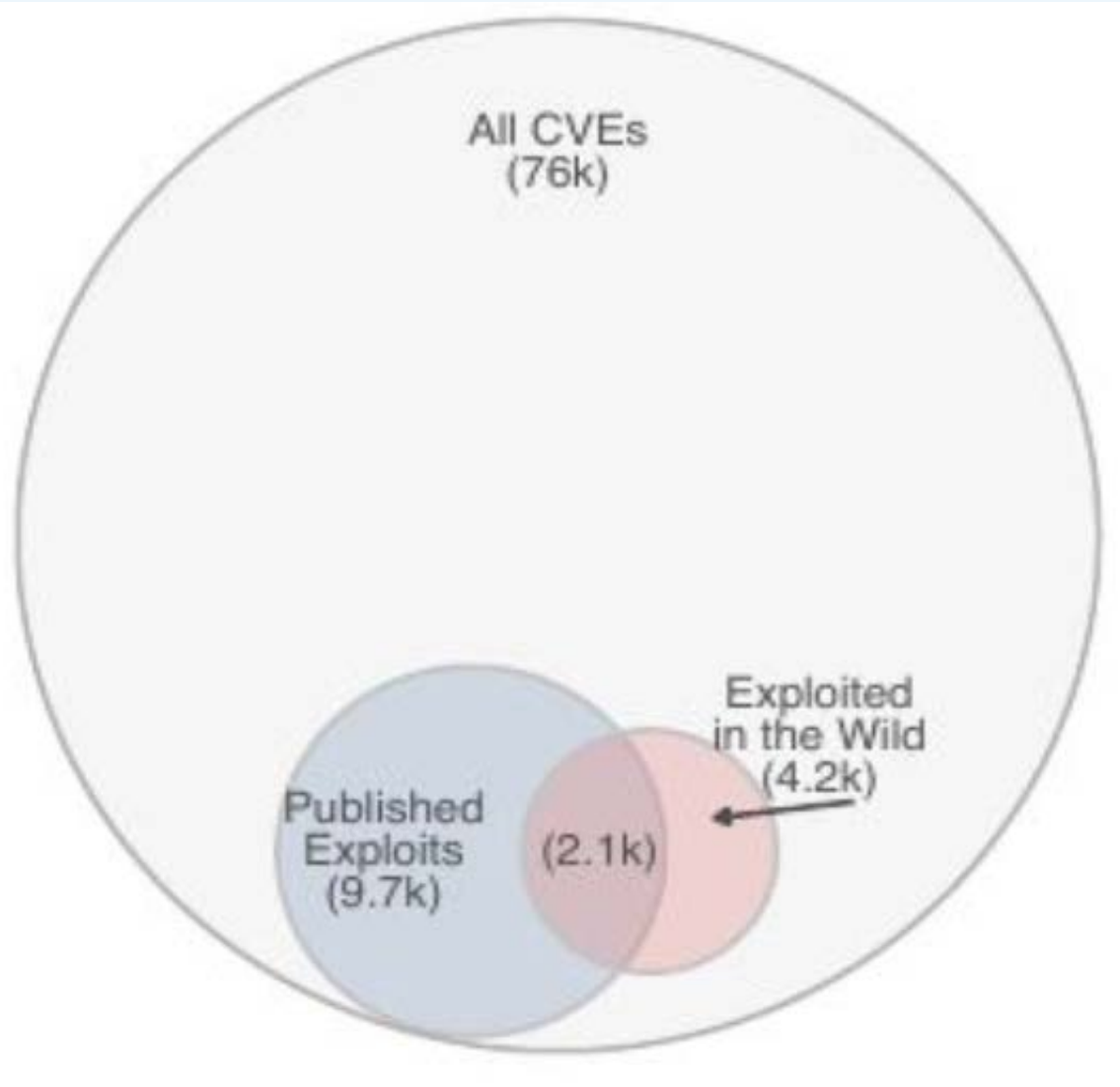
#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

A decorative graphic in the bottom right corner featuring a globe with glowing blue and purple data lines and connections, symbolizing global connectivity and data security.

Vulnerabilities – they're not going away (they're just getting logos)





“A recent study found that only 5.5% of security vulnerabilities discovered by researchers were actually ever used by hackers.”¹

¹[Why hackers ignore most security flaws](#), Joe Uchill, AXIOS, June 13, 2019



COUNTERMEASURE

Action, device, procedure, technique, or other measure that reduces the vulnerability of an information system.



National Information Systems Security (INFOSEC) Glossary



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023



#cybersecuritysummit #css13

RESILIENCE
UNLOCKED





The Classic Risk Equation

(notice security isn't even mentioned here)



CYBER SECURITY
SUMMIT
www.cybersecuritysummit.org

13th Annual Cyber Security Summit | October 24-26, 2023

in    

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED



So what is Security?



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023

in    

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

A decorative graphic in the bottom right corner featuring a globe with glowing blue and purple data lines and connections, symbolizing global connectivity and digital security.

Risk-Based Security Model



What are we doing here?

What do you do?

Where does it fit in to the Risk Equation?

And is it really security?



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023



#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

A decorative graphic in the bottom right corner showing a globe with glowing blue data lines and connections, symbolizing global connectivity and data security.

**STOP BITCHING
START A REVOLUTION™**
WWW.ZENDIK.ORG



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023



#cybersecuritysummit #css13

RESILIENCE
UNLOCKED



Want to learn more?



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023



#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

A decorative graphic in the bottom right corner showing a globe with glowing blue data lines and connections.

EP 83: NSA CRYPTOLOGISTS



advanced persistent threat

19 January 2021 | 82:56



maliciouslife

BY CYBEREASON

How the Internet
Changed the NSA

EPISODE
144



TRIBE OF HACKERS



Cybersecurity Advice from the Best Hackers in the World

Marcus J. Carey & Jennifer Jin

41

Jeffrey Man is a respected information security expert, advisor, researcher, and co-host of the security podcast *Security Weekly*. He has over 25 years of experience in all aspects of computer, network, and information security. Jeffrey has held various information security roles within the DoD as well as private-sector enterprises, is a former PCI QSA, and was part of the first penetration testing team at the NSA.

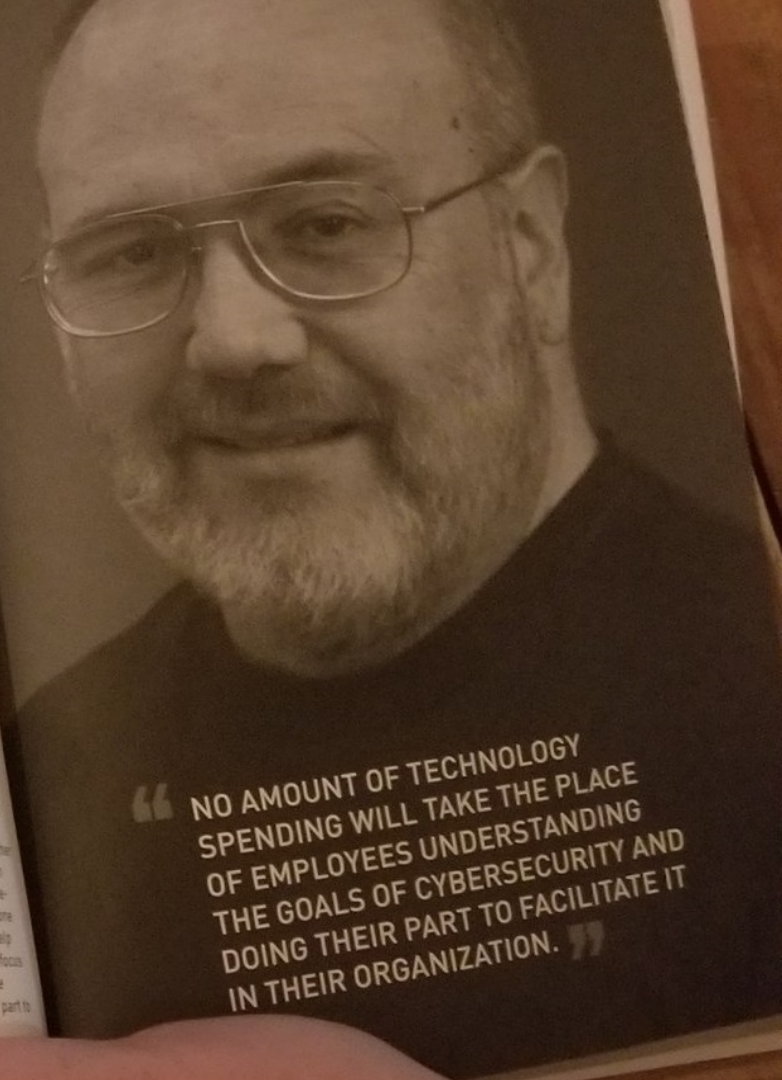
Twitter: @MrJeffMan Website: securityweekly.com/hosts

If there is one myth that you could debunk in cybersecurity, what would it be? If I may be philosophical for a moment, I would suggest that the biggest myth in cybersecurity is the notion of security in and of itself—that it is a state that can be achieved, or to which one can be elevated. As a more practical matter, but perhaps equally as daunting, I would say the biggest myth in cybersecurity is the notion that cybersecurity begins and ends with technology. I was doing information security (InfoSec) for years before computers—and networks—came along.

While technology is here to stay, and is certainly an integral part of cybersecurity, I believe there are fundamentals to understanding the things we call "cybersecurity" that are too often misunderstood, because the understanding and application begins with a presumption about the technology. Here's a simple example: The notion of protecting your information assets too often revolves around all the information technologies that are employed within the enterprise, whereas the information assets are far and away the information and data that are processed, transmitted, and stored using the information technology. In other words, we focus on the vehicle rather than the content.

What is one of the biggest bang-for-the-buck actions that an organization can take to improve their cybersecurity posture?

Taking any steps to educate the employee population about the nature of the business—and what is considered valuable by the company in terms of its information assets—and fostering an environment where every employee understands, embraces, and buys into the notion that what they do (or don't do) impacts the overall success of cybersecurity efforts. I'm not talking about compulsory viewing of an annual 30-minute security awareness video. I'm talking about systemic, core-value, company identity-type of practices that change behaviors of employees—rewarding right behaviors and doing the right thing rather than turning a blind-eye or creating a work culture where bad practices, or even breaking the rules, is rewarded or expected. How is this a "biggest bang-for-the-buck" activity? I believe it is the only thing left to do that hasn't already been done or really invested in. There's always going to be IT and IS spending, and God help the people who have to try and sort all that out in terms of the right level and focus of investment. But no amount of technology spending, ultimately, will take the place of employees understanding the goals of cybersecurity and doing their part to facilitate it in their organization.



“NO AMOUNT OF TECHNOLOGY SPENDING WILL TAKE THE PLACE OF EMPLOYEES UNDERSTANDING THE GOALS OF CYBERSECURITY AND DOING THEIR PART TO FACILITATE IT IN THEIR ORGANIZATION.”

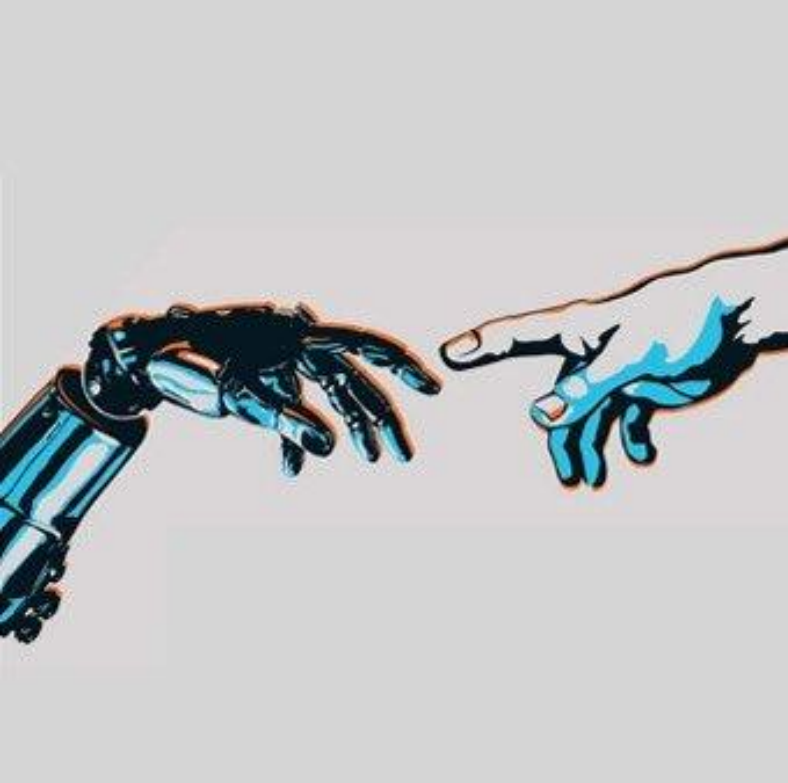
I contributed to a book – tribeofhackers.com



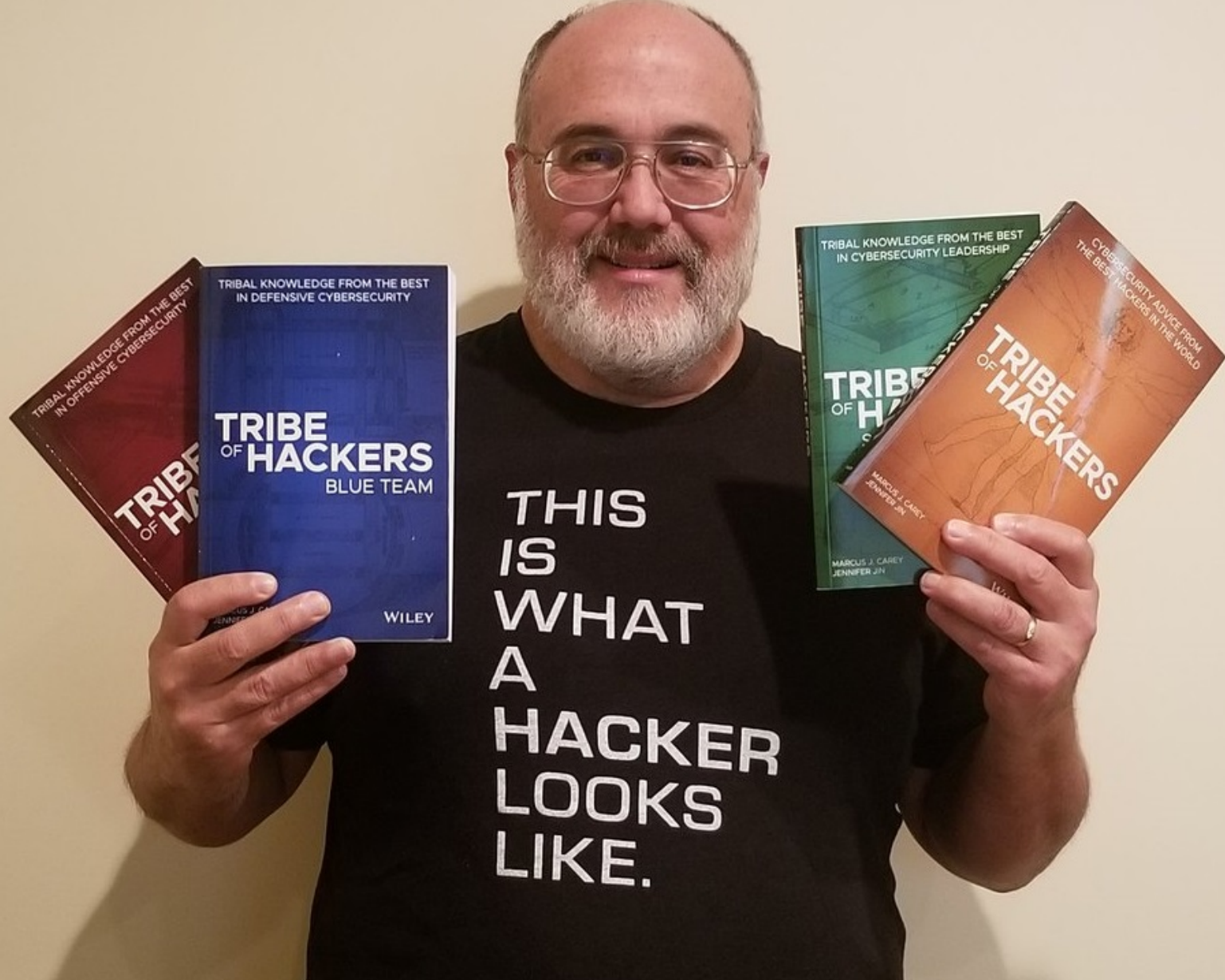
CYBER SECURITY
SUMMIT
www.cybersecuritysummit.org

13th Annual Cyber Security Summit | October 24-26, 2023
in #cybersecuritysummit #css13

RESILIENCE
UNLOCKED



In fact, I'm in all
4 Tribe of
Hackers books



CYBER SECURITY
SUMMIT
www.cybersecuritysummit.org

13th Annual Cyber Security Summit | October 24-26, 2023



#cybersecuritysummit #css13

RESILIENCE
UNLOCKED

Frequent Speaker and Storyteller



CYBER SECURITY
SUMMIT
www.cybersecuritysummit.org

13th Annual Cyber Security Summit | October 24-26, 2023

in

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED



Payment Card Industry Data Security Standard (PCI DSS): Primer Course

This course focuses on the fundamentals of the Payment Card Industry Data Security Standard (PCI DSS) and how assessing the security programs of merchants and service providers protects payment data from loss or compromise. The course also looks at changes and updates found in the latest version of PCI DSS (v4.0) released in March 2022.

ACTIVITY TYPE	TIME	DIFFICULTY	ENROLLMENTS
Course	3 hours 20 minutes ⓘ	Intermediate	354

Payment Card Industry Data Security Standard (PCI DSS): Practitioner Course

This course highlights the changes implemented in the PCI standard version 4.0. Join Jeff Man as we work through the more specific points of the PCI, how to work with a Qualified Security Assessor (QSA) and how Self-Assessment Questionnaires (SAQ's) can be used to help build compliance and improve overall security for your business and customers.

ACTIVITY TYPE	TIME	DIFFICULTY	ENROLLMENTS
Course	4 hours 4 minutes ⓘ	Intermediate	208

I've taught several virtual online courses



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023
in #cybersecuritysummit #css13

RESILIENCE
UNLOCKED



I'm a member of the Cabal of the Curmudgeons



CYBER SECURITY
SUMMIT
www.cybersecuritysummit.org

13th Annual Cyber Security Summit | October 24-26, 2023

in    

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED 



**Joined the board as
Director of Diversity,
Equity, and Inclusion**

<https://www.hak4kidz.com/>



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

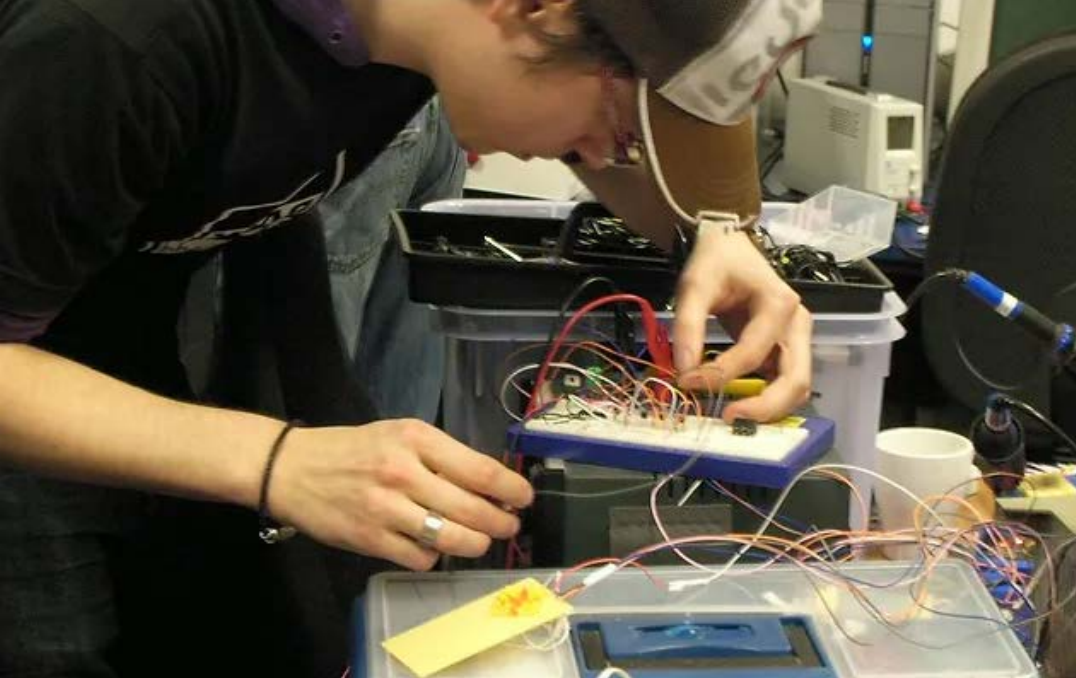
13th Annual Cyber Security Summit | October 24-26, 2023

in    

#cybersecuritysummit #css13

**RESILIENCE
UNLOCKED**





CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023

in   

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED



HAH4H DZ



UPPER AN



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

13th Annual Cyber Security Summit | October 24-26, 2023

in

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED





I'm in a Card Game: Phreaker.life Anhackronisms



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

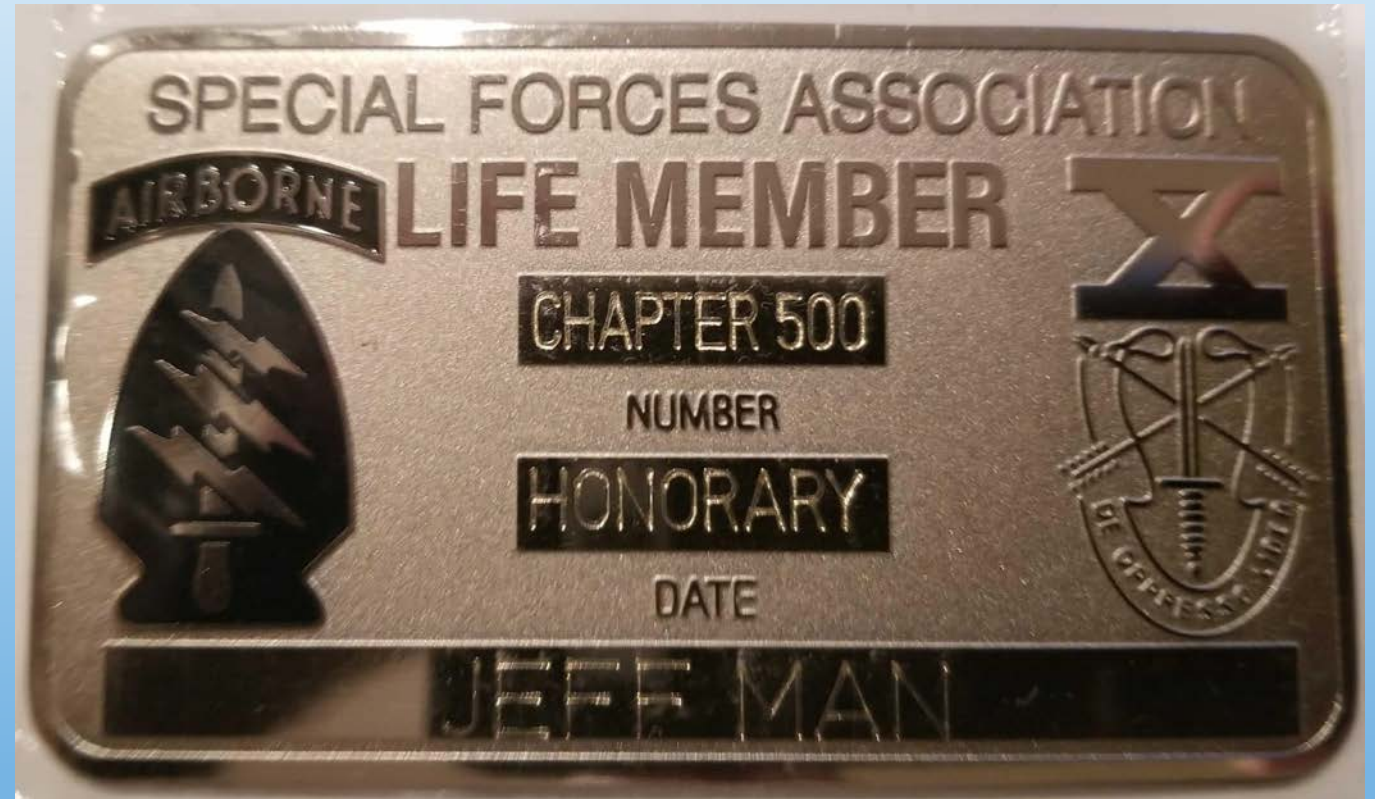
13th Annual Cyber Security Summit | October 24-26, 2023

in    

#cybersecuritysummit #css13

RESILIENCE
UNLOCKED





A former "customer"

13th Annual Cyber Security Summit | October 24-26, 2023

in    

#cybersecuritysummit #css13



CYBER SECURITY
www.cybersecuritysummit.org **SUMMIT**

RESILIENCE
UNLOCKED



NATIONAL
CRYPTOLOGIC
MUSEUM

NSA - National
Cryptologic
Museum ✓

@NationalCryptologicMuseum

Home



with the keystrobs. The current passed through the plugboard, changing its path if that letter was plugged to a different letter. Next it entered the rotors which rerouted the current in each rotor before going through a reflector. The reflector changed the "letter" again and sent the current back through the rotors down a different path. One last pass through the plugboard resulted in a different letter lighting up on the light panel.

recognized as one of the most significant cipher devices of World War II - not for its invention, but for its failure. Modified from the early commercial machine, the Germans believed in its inviolate security. They used the Enigma to encrypt messages from its military and diplomatic services, as well as some civil services. They never realized that the Allies read its property of the encrypted message throughout the war. Today it stands as a silent reminder of the consequences of poor communications security practices and the dangers of underestimating an adversary's cryptanalytic capabilities.

Thousands of thousands of Enigma were produced for use by the German government and military. Several variations were made for different purposes and locations. The German most widely used was a rotor known as an Enigma G. The Enigma T (T) was built for communication with the Japanese. Another variation, known as the Enigma M, was used by the Japanese. The Enigma M was used by the Japanese to communicate with the United States.

As with all other military communications, the Enigma machine was used to send and receive messages. The key to the machine was the rotor settings. However, each of the German messages was sent in a different rotor setting. The Enigma machine was used to send and receive messages.

Like
Message
Save
More

<https://www.nsa.gov/about/cryptologic-heritage/museum/>

Question
everything

