

50th Annual Wichita Property Tax Conference

Cyber Risk and Information Assurance: Current Trends and Future Concerns

July 2022

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Overview of Program

- Some Basic Tenets, Facts, and Misconceptions
- The Phish and Why it Rules
- Case and Law Updates



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Tenets

- A person's home is not their only castle
- What is Normal for the Spider is Chaos for the Fly
- Technology amplifies human flaws



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Facts

- Over 90% of Cyber Attacks are Financially Motivated
- Over 80% of Successful Attacks Come Via Phishing Emails
- Government Agencies Consistently a Top Five Target



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Misconceptions

- Anti Virus and Firewalls make up for human flaws
- I'm not worth enough to be hacked
- Cyber Insurance Will Cover It



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Misconceptions-Hollywood Style



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The Ways Into a Network

Method	How it works	Pros	Limiting Factors
Impersonation or Personal Contact	Ask for Credentials	Takes Zero Technical Hacking Skills	Must be a good method actor
Wifi Attacks: Man in the Middle Evil Twin Packet Sniffing	Tools give you the ability to intercept and view unsecured wifi traffic	Free software Intrusion and Detection Limited	Only works on unencrypted websites and networks
Cross Site Scripting	Finding vulnerabilities in website, injecting new code in it and stealing victim tokens and cookies starting with URL commands	Can often get hacker into SQL databases, multiple victim information, only need your browser for attack	Requires advanced scripting and website programming knowledge to be successful, websites becoming more secure
Website Spoofing	Create fake website that looks real, victim enters credentials	Easy to build, create domain	DNS police, takes some knowledge of HTML tools
Malware Attacks through links	Malicious links are clicked on that trick network applications into letting hacker into network through vulnerabilities	Once you are in, can find about anything, change anything or take down a network	Highly technical, well defended in many cases, have to be able to adjust on the fly
USB Drops	Victim puts USB drive into network computer where it can insert links installing malware or leading to spoofed websites, also Remote Access Tools	High success rate due to loose policies, multiple attack vectors, sometimes difficult to detect	Need physical access and technical skills above depending on attack vector
Insider Threat	Person with valid credentials in present or past steals or misuses information that he has access to	Often goes undetected until well after insider leaves, agencies forget to revoke credentials or take keys back from employee when they quit	Takes ability to be clandestine and unsuspecting

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The Art of The Phish

- Part of this field called “Social Engineering”
- Phishing, Spear phishing, Whaling
- Two theories of phishing-carpet bombing and precision
- Let me show you how easy it is to do

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The Art of The Phish

gathered from truepeoplesearch.com

Basic Info
 Gary David Brooking Age 56 (Aug 1965) Birthdays are good ammo
 Current Address: [1025 N Denstot Court](#) - [Wichita, KS 67202](#) Track this info to get house and mortgage details

Phone Numbers
 (816) 268-9321 - [Wichita you can reverse search these](#)
 (414) 268-9321 - [Landline](#)

Sponsored Links

Previous Addresses
 772 N Central Dr - [Wichita, KS 67202](#) See if he still has property as rental?
 (Jun 2019 - Jun 2019)
 1841 Fairmount Dr - [Wichita, KS 67202](#)
 (Aug 2014)
 1841 Fairmount Dr - [Wichita, KS 67202](#)
 (Aug 2014)

Possible Relatives
[Wendy H Brooking](#), [Wendy Ann Brooking](#), [Wendy Ann Brooking](#)

Possible Associates
[William Scott Dillashaw](#), [Samuel A Terfus](#), [Wendy Brookhild](#)

Wendy Facebook:
<https://www.facebook.com/wendy.brooking> Bankroll of info could have crafted some real good emails

Gary has his Twitter locked down ☹

Gary Interviews and News Articles: Nice touch if you want to impersonate org or former student
<https://ventureswell.org/gary-brooking/>
<http://themotivator.com/11045/news/over-the-moon-aga-student-accepted-into-osa-summer-academy>
[Visually Impaired Camp](#)

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The Art of The Phish

Gary and/or Wendy Brooking:

You should have received a notice in the mail last week about the increase of the value of your property located at 1025 N Denstot Court in Wichita. If you did not receive the notice, you may visit our website to access the valuation electronically. Our current information shows that RCB Bank holds your property in mortgage. You may wish to contact them after viewing your increase as it could affect your escrow payment each month.

Once on our website, you may lock up your property notice by clicking on the search button in the top left hand corner and following the instructions. There is also information contained within the notice on your appellate rights.

There is also a [Submit Questions](#) page at the bottom left hand corner if you have any questions or concerns.

Please visit below
[SedwickCntry.Gov](#) This link would take you to a spoofed website. By that time, Gary will have already been directed to a malicious domain running a browser exploit pack to determine vulnerabilities.

Thank You

Sedwick County Appraisers Office
 271 W Third Street N.
 Suite 501
 Wichita, Kansas 67202

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The Art of The Phish



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The Art of The Phish-Why it Rules

- Public Information Readily Available
- Emails sent by the thousands every day in an organization
- Multiple Vectors of Attack (credential stealing, malware, attachments)
- Easy to do with basic tools
- Poor Training
- Cognitive Biases

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Trends

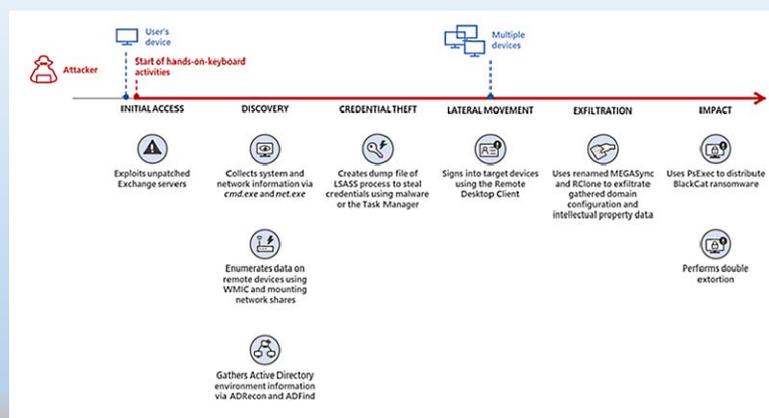
- Social Media Attacks
- Deepfakes, Trolls and Bots
- Ransomware
- .pdf as an extension or spoof
- Cryptocurrency
- Cloud leaks and email breach



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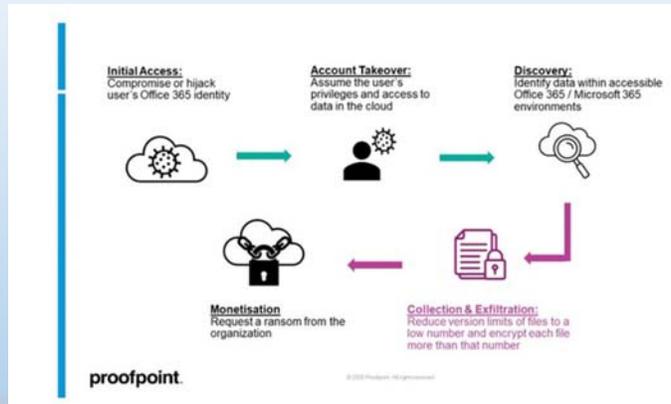
Cloud Leaks



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Cloud Leaks



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Legal and Policy Trends

- Class Actions, Class Actions, Class Actions
- [State by State Cyber Legislation](#)
- Acts of War in Liability Policies
- Bipartisan Legislation on the Federal Level



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Bipartisan Infrastructure Bill

- \$1.2 Trillion Nationwide over Next Five Years
- Cybersecurity is part of the Infrastructure
- State Gets 60% Formula Funds; Other 40% Grants
- Most Cyber Grants Through DHS or built into other places

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BIL Formula and Competitive Grant Programs								
NUMBER	AGENCY	NAME OF PROGRAM	AMOUNT (\$BILLION) 2022-2026 (Formula - White House Dashboard)	FY	NEW OR EXISTING PROGRAM	TYPE	ELIGIBLE RECIPIENTS	LATEST ACTIONS AND UPDATING MILESTONES - Year/Month/Day (if available)
1	Department of Homeland Security	State and Local Cybersecurity Grant Program	\$1.00		New	Competitive	States, territories, tribes, and multi entity groups of two or more	
2	Department of Homeland Security	Cyber Response and Recovery	\$0.10		New		Federal, State, local, tribal, and territorial, public and private entities	Funding triggered by Secretary's determination of a significant incident
3	Department of Homeland Security	Critical Infrastructure Security and Resilience Research	\$0.07		New	Competitive	National labs, federally funded research, development centers, academia, industry, etc.	
4	Department of Homeland Security	Physical Security	\$0.04		Existing	Competitive	Academia, Industry, National lands, Federally Funded Research and Development Centers	
5	Department of Homeland Security	Sector Risk management Agencies	\$0.04		Existing		Federal (DHS/CSA)	
6	Department of Homeland Security	Cybersecurity	\$0.01		Existing	Competitive	National labs, federally funded research, development centers, academia, industry, etc.	
7	Department of Homeland Security	Probabilistic Analysis of National threats, Hazards, and Risk	\$0.01		Existing	Competitive	Academia, Industry, National lands, Federally Funded Research and Development Centers	
8	Department of Homeland Security	Countering Violent Extremism	\$0.01		Existing	Competitive	Academia, Industry, National lands, Federally Funded Research and Development Centers	
9	Department of Homeland Security	First Responder Capability	\$0.00		Existing	Competitive	Academia, Industry, National lands, Federally Funded Research and Development Centers	
10	Department of Homeland Security	Explosive Threat Assessment	\$0.00		Existing	Competitive	Academia, Industry, National lands, Federally Funded Research and Development Centers	
11	Department of Homeland Security	Network & System Security & Investment	\$0.00		Existing	Competitive	Academia, Industry, National lands, Federally Funded Research and Development Centers	
12	Department of Homeland Security - FEMA	Building Infrastructure and Communities (Robert T Stafford Act Sect. 203(i))	\$1.00		Existing	Competitive	States/Local Government/Territories/Tribes	
13	Department of Homeland Security - FEMA	Hazard Mitigation Revolving Loan Funds/ Safeguarding Tomorrow through Ongoing Risk Mitigation (STORM) Act	\$0.50		New	Loan	States and Indian Tribal Government	
14	Department of Homeland Security - FEMA	National Dam Safety Program	\$0.20		Existing		States	
15	Department of Homeland Security - FEMA	Rehabilitation of High Hazard Potential Dams	\$0.59		Existing		States	Eligible activities include repair, removal, or any other structural or nonstructural measures to rehabilitate an eligible high hazard potential dam. The Federal Emergency Management Agency's Rehabilitation of High Hazard Potential Dams grant program provides technical, planning, design, and construction assistance for eligible rehabilitation activities that reduce dam risk and increase community preparedness.

Hot off the Press



On June 21, President Biden signed into law the [State and Local Government Cybersecurity Act](#) (S. 2520), a bill that codifies and strengthens the relationship between federal, state and local cybersecurity authorities. The new law directs the U.S. Department of Homeland Security (DHS) to share information and resources with state, local, Tribal and territorial (SLTT) governments to help them prevent and recover from cyberattacks, as counties are becoming targeted more frequently by hackers and other cyber criminals.

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What to do?

- Training and Table Top Exercises
- Understand enough to ask questions to the right people
- Two factor authentication
- Develop a post attack plan



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Questions????



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