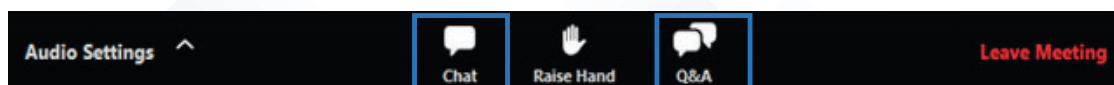


Cyber Survivability for Local Government



Zoom webinar technical tips

- Plug your device into a power source
- Connect your device directly into your internet connection instead of using wireless to avoid audio and video quality issues and interruptions
- You can **submit questions for the speaker** via the **Q&A feature**
- Please use the **Zoom chat feature** for any **technical issues** or questions



Select **Chat**, type your question or comment into chat pane, and hit **Enter**.

Select **Q&A**, type your question in the Q&A pane and hit **Enter**

Disclaimer

Disclaimer: The information contained in this presentation is for general educational purposes only and is not intended to be legal advice. Please consult legal counsel for advice about specific questions.

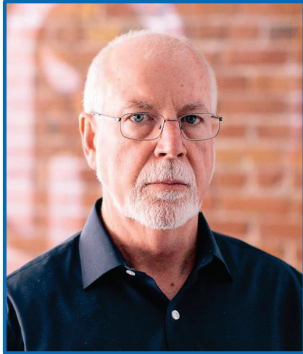


Agenda

- Introductions
- Headlines
- What's in the infrastructure bill
- Using a framework for budgeting
- 10 things insurance companies want to see
- PISCES: free security monitoring
- Q/A with the panel



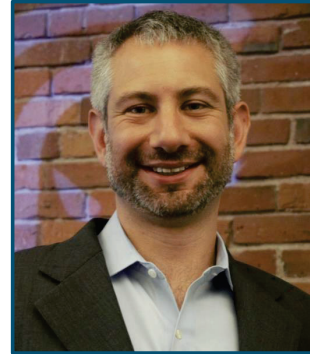
Panelists



Mike Hamilton
Critical Insight Founder



John Traeger
City of Issaquah CIO



Jake Milstein
Event Host, Critical Insight



Public Sector Problems

- Hire & retaining talent
- Significant compliance needs
- Cities & Counties can't be treated like companies. They hire, purchase, and run differently
- Services & capitol purchases are difficult



Public Sector Solutions

- CI provides gives you a security team
- CI assists with audit-readiness & training
- CI has dozens of years of public sector experience. Co-founder Mike Hamilton was City of Seattle CISO
- CI is easy to buy. Contract vehicles & GPOs

Glossary

- **Phishing:** A criminal's method for tricking you into giving up a password. Usually comes through email or social media.
- **Ransomware:** Should be called Cyber-Terrorism or Cyber-Extortion. A criminal locks up a network and/or files and then extorts the victim to unlock (note: don't trust criminals to keep their word)
- **Business Email Compromise (BEC):** When a criminal pretends to be a business you already know to steal money. Sometimes involving taking over one of your vendors.
- **Multi-Factor Authentication (MFA or 2FA):** More than just a password, something that proves in 2 ways that you are who you say you are. Generally, 2 of these: (1) something you know (2) something you have (3) something you are.

News In Context

Addressing the Cyber Storm: How States Can Make the Most of Modernization Funding

Whole-of-State Cybersecurity Gains Ground in Government

Microsoft commits \$150 million to modernizing government cyber infrastructure

Infrastructure Legislation Could Improve State and Local Government Cybersecurity

**Biggest cybersecurity issue is 'culture,'
city CISOs say**

Also, This

Ransomware Operator: 'Start **cking Up the U.S. Public Sector'

"In our difficult and troubled time when the US government is trying to fight us, I call on all partner programs to stop competing, unite and start **cking up the US public sector, show this old man who is the boss here, who is the boss and will be on the Internet.

The Infrastructure Bill

- Section 70612
- \$1.8B for states, local governments, Tribes
- Grants will be distributed by States
- A justification plan is required
- Grant funding duration is 2 years, renewable (annually, strangely)
- September 2023 deadline for plan submission
- No one knows what the state will require
- There are exceptions

“(j) Limitations on Uses of Funds.-- (1) In general.-- Any entity that receives funds from a grant under this section may not use the grant-- (A) to supplant State or local funds; (B) for any recipient cost-sharing contribution; (C) to pay a ransom; (D) for recreational or social purposes; or (E) for any purpose that does not address cybersecurity risks or cybersecurity threats on information systems owned or operated by, or on behalf of, the eligible entity that receives the grant or a local government within the jurisdiction of the eligible entity.

“(i) Review of Plans.-- (1) Review as condition of grant.-- (A) In general.--Subject to paragraph (3), before an eligible entity may receive a grant under this section, the Secretary, acting through the Director, shall-- (i) review the Cybersecurity Plan of the eligible entity, including any revised Cybersecurity Plans of the eligible entity; and (ii) determine that the Cybersecurity Plan reviewed under clause (i) satisfies the requirements under paragraph (2). (B) Duration of determination.--In the case of a determination under subparagraph (A) (ii) that a Cybersecurity Plan satisfies the requirements under paragraph (2), the determination shall be effective for the 2-year period beginning on the date of the determination.

Creating That Plan

NIST Cyber Security Framework



IDENTIFY	PROTECT	DETECT	RESPOND	RECOVER
Asset Management	Access Control	Anomalies & Events	Response Planning	Recovery Planning
Business Environment	Awareness & Training	Security Continuous Monitoring	Communications	Improvements
Governance	Data Security	Detection Processes	Analysis	Communications
Risk Assessment	Info Protection Processes and Procedures		Mitigation	
Risk Management	Maintenance		Improvements	
	Protective Technology			



Assess, Resource, Prioritize

Critical Insight		Date Conducted	Conducted By	Approved By				
Risk Assessment								
Instructions: determine whether outcome can be met by existing controls. If not, estimate likelihood that the failure to meet the outcome will result in a security issue: H/M/L. Then estimate the impact that may create. Use H/M/L. Then use the product of likelihood and impact to estimate risk: H/M/L. Finally, for each identified risk, pick 1: Accept, Avoid, Mitigate through applying additional controls, or Transfer through insurance or other risk transference mechanism.								
NOTE that information in columns D,E,F,G is there for example, and should be removed/replaced								
Attributes key: 1=low risk, 3=high risk								
Cost: 1=internal resource, 2=consultant support, 3=capital purchase								
Results								
The following tables present the issues and questions used to understand the presence and efficacy of current security controls, the responses obtained during reviews and interviews, and recommendations developed.								
Identify								
The Identify core function organizes activities for managing cyber security risk to systems, assets, data, and capabilities								
Item	Category	Outcome	Response	Likelihood of Exploit	Impact	Risk/Recommendation	Risk	Cost
Asset Management (ID AM)								
The data, personnel, devices, systems, and facilities that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to business objectives and the organization's risk strategy								
1	Asset Management	ID-AM-1. Physical devices and systems within the organization are inventoried	Documentation old, many changes have not been added to inventory.	Medium	Medium	Perform an inventory of physical devices on the network, including IoT, and document the results in an artifact to be refreshed at least annually.	1	1
ID-AM-1							Risk: Low; Mitigate	
2	Asset Management	ID-AM-2. Software platforms and applications within the organization are inventoried					1	1

Determine whether outcomes are currently being met

If not, denote the disposition and corrective action required

Determine how the "fix" will be resourced: internally, use of professional services, capital purchase

Governance and Management

Programmatic task	Internal Resource Hours	Professional Services
Routine meetings, ad-hoc incident management, consulting project management, planning, recordkeeping	416	
Access authorization review	64	
Reporting to security governance committee	32	
Firewall rules and other routine inspections:	50	
Conducting rituals for vulnerability remediation and addressing corrective actions	100	
Risk Assessment:	40	
Tabletop exercise:	40	
Policy review:	40	
Penetration test		\$22,000
Awareness training		\$15,000
Risk Assessment		\$15,000
Annual cost estimate	782	\$52,000

Information Security Governance and Management Framework			
Weekly	Monthly	Quarterly	Annually
Meetings (change control, infosec, governance, etc.)	Review vulnerability assessment results, assign disposition and delegate	Access authorization management reviews	Penetration test
Incident Management	Firewall rules review	Conduct Security Governance Committee meeting	Risk Assessment
Consulting project management	Recordkeeping (e.g. security testing results for products in use)	Perform 2 of the annual requirements	Security Awareness Training / Attestation
Planning for upcoming monthly, quarterly or annual requirements	Corrective action board; infosec ritual	Report to Executive Security Governance Committee	Tabletop or functional security exercise
		Conduct Vulnerability Assessment	Policy review
			Service audits

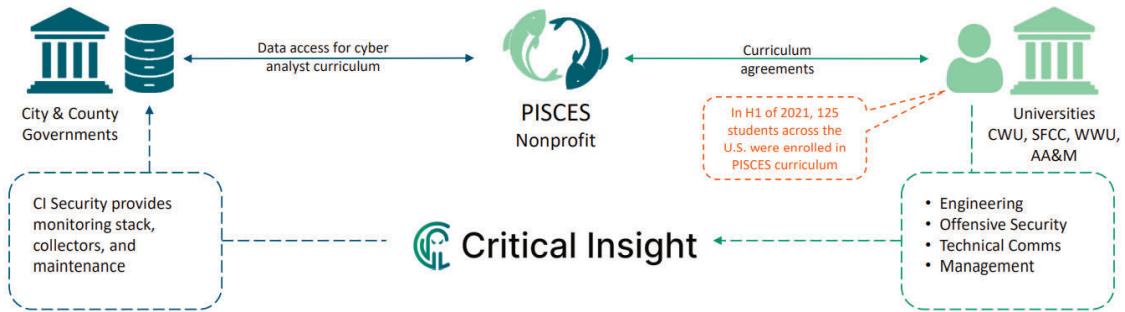
- Someone in the organization must be accountable for ensuring that required activities are occurring
- Annual requirements may be performed by professional services – estimate costs
- Make sure that governance activities are included for communicating risks to executive management

What Insurance Companies Want

1. Follow the NIST Cybersecurity Framework
2. Engage External Expertise
3. Have Demonstrably Secure Backups
4. Have 24/7 Monitoring
5. Use Proactive Defense
6. Multi-Factor Authentication is a Must
7. Staff Cyber Security Awareness Training
8. Deploy Endpoint Protection
9. Vulnerability Management
10. Documented Incident Response Plans

A compendium of information provided by Aon/Stroz-Friedberg and communicating with our customers on their challenges

For Small Jurisdictions – PISCES



- Public Infrastructure Security Cyber Education System
- No cost for local governments sub-150 employees
- 2 or 3-year contract, renewable
- Metadata and IDS alerts extracted from the network – no content
- Students at 5 universities evaluate and investigate alerts
- Oversight Analyst and Community Liaison for reporting
- Expanding into Colorado, then 2 other states



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Walla Walla County, WA

“Everything comes down to relationships. As long as you guys have my back, I can do my real job, which is to support the citizens.”

-Chad Goodhue, IT Manager

Wenatchee, WA

“The value to me is that 24x7 we have an extra set of eyes on our network activity to monitor the logs. We have artificial intelligence that goes through the logs, but the fact that we have real eyes around the clock is just invaluable to me.”

-Dale Cantrell, Director of Information Systems

Upcoming Training

- [Don't Fall For It! Cybersecurity Awareness Training](#)
Every other Friday!

Critical Insight Total Security Solutions

24x7 Managed Detection & Response	Strategic Program Development
Incident Preparedness <ul style="list-style-type: none"> <input type="checkbox"/> IR Plan Development <input type="checkbox"/> IR Plan Review <input type="checkbox"/> IR Tabletop Exercise <i>(must be accompanied with IR Plan review or development)</i> <input type="checkbox"/> Rapid Quarantine Playbook Development 	Assessments <ul style="list-style-type: none"> <input type="checkbox"/> Focused Security Assessment <i>Standard, Work from Home, CMMC, SSAE18 SOC2</i> <input type="checkbox"/> Security Risk Assessment <i>HIPAA, NCUA, PCI, NIST, CIS20, Cloud Environment</i>
24x7 Threat Detection and Analysis <ul style="list-style-type: none"> <input type="checkbox"/> Network Infrastructure (PCAP & Logs) <input type="checkbox"/> Defender for Endpoint <input type="checkbox"/> MCAS / O365 <input type="checkbox"/> AWS (Amazon Web Services) <input type="checkbox"/> Azure <input type="checkbox"/> IoT Security 	Testing <ul style="list-style-type: none"> <input type="checkbox"/> External / Internal/ Cloud <input type="checkbox"/> Continuous Vulnerability Identification <input type="checkbox"/> Wireless, Phishing, Password Cracking <input type="checkbox"/> Web Application Security <input type="checkbox"/> Social Engineering
Containment <ul style="list-style-type: none"> <input type="checkbox"/> Rapid Quarantine Playbook Execution 	Compliance and Hygiene <ul style="list-style-type: none"> <input type="checkbox"/> vCISO / oCISO <input type="checkbox"/> Co-Managed Security Solutions <input type="checkbox"/> Policy Review & Development <input type="checkbox"/> Security Awareness Training <input type="checkbox"/> Log Retention & Compliance Review
Eradication, Recovery, and Post-Incident Activity <ul style="list-style-type: none"> <input type="checkbox"/> IR Retainer <input type="checkbox"/> IR Assistance 	

13 Point Assessment

