

The Changing Landscape of Cybersecurity



The Institute of
Internal Auditors

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September 15, 2023

18th Annual IIA Conference: Cobb Galleria



Cybersecurity: An Industry Out of Balance

Everyone is spending on cyber protection



INSOMNIA

Date:

Virus

Successful attacks continue

Budget Constraints

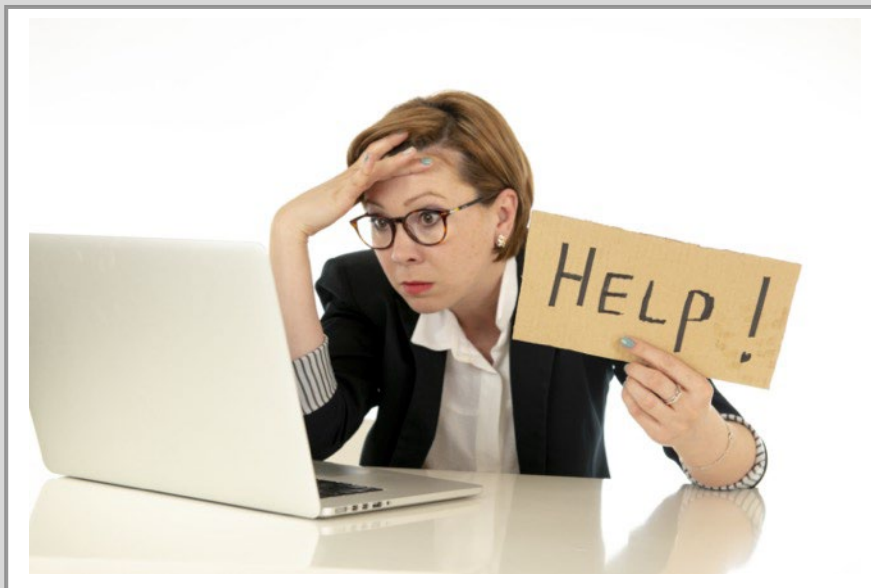
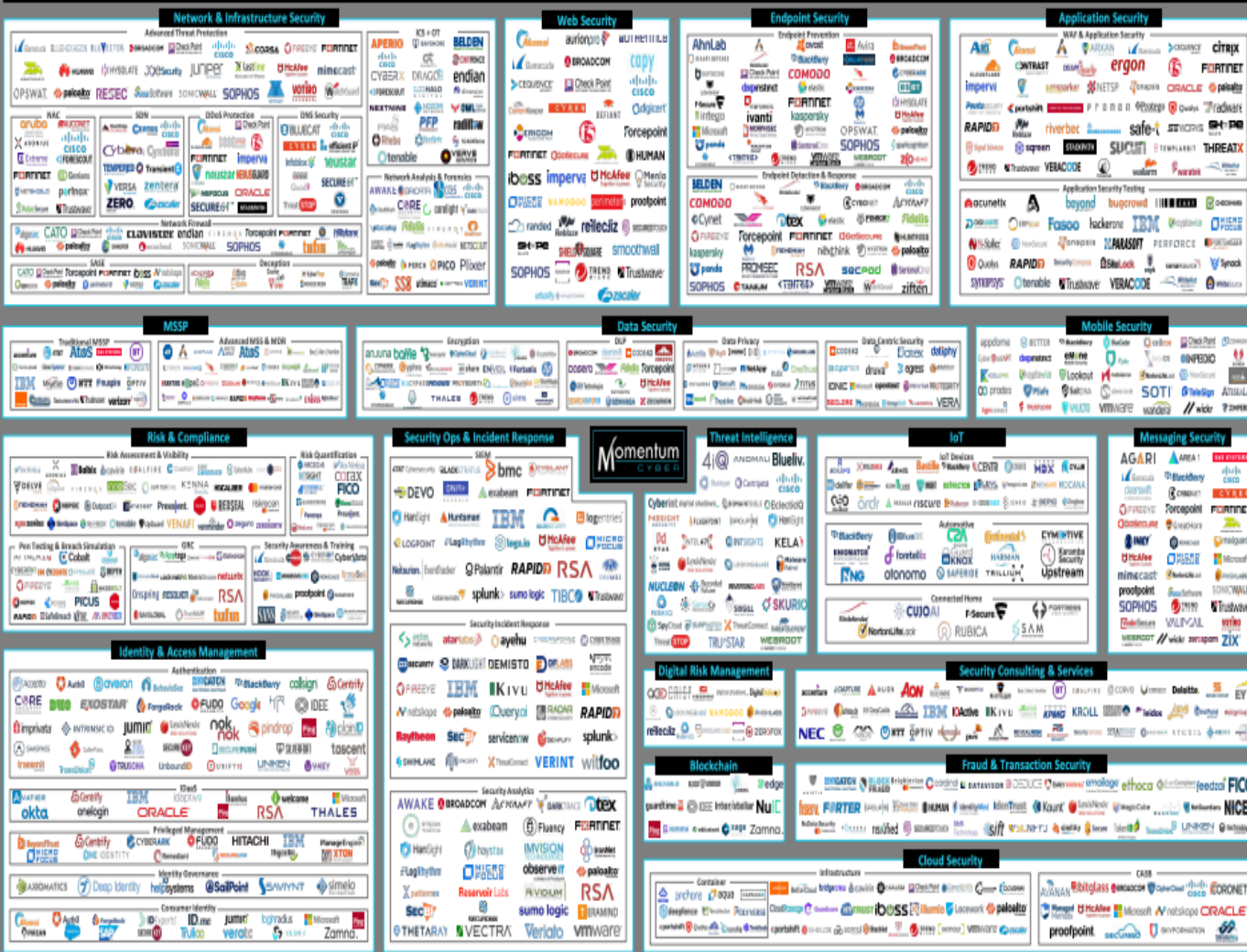


Seemingly Endless
Funding

Carefully
pieced
together
Defense in
Depth
Architecture



CYBER SCAPE



Crowded tools market
is overwhelming

**Skilled
Resources:**

**Demand
Outpaces
Supply**

5:1





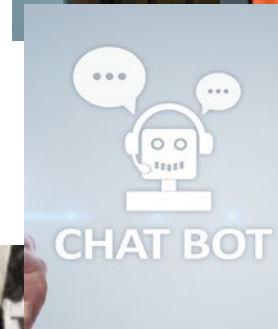
Major Developments

What to Expect

How to Prepare



Major Developments



What to Expect



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Elevating Impact

CLOUD MIGRATION AND SECURITY



SUPPLY CHAIN ATTACKS



Single point of failure with far reaching impact

Concentration of technology exacerbates risk

Both vendor and open source risk

Managed Services

- Vendor managed services
- Platform convergence
- Subscription-based models
- MSSPs



CYBERINSURANCE SHIFTS

- Stringent requirements
- More complex attestation
- Coverage limits
- Software vendor warranties

More Stringent Requirements

MFA

Backups – Secured & Tested

Patch and vulnerability management

Configuration management

Email and web content security

Privileged account protection

Prepared and tested incident response plan

Efficient and effective network access controls

Advanced anti-malware endpoint solution

Security logging and monitoring

Security Awareness Training (esp. phishing)

GOVERNMENTS ARE STEPPING UP

From the White House

National Cybersecurity Strategy

Cybercrime Tracking Bill

Quantum Computing Cybersecurity Risks

US Justice Dept going on offense

Europe moving towards stricter regulation and reporting on cybersecurity

European cops and No More Ransom

Improved guidance from NIST

MITRE framework for Supply Chain security

CMMC (Department of Defense)

Georgia Cyber Command Division





ARTIFICIAL INTELLIGENCE

- ChatGPT
- GoogleAI
- Bing
- AI Botnets

INCREASING VULNERABILITY of OT and IoT

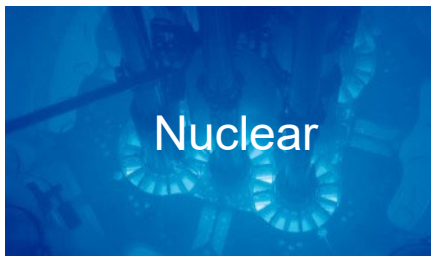
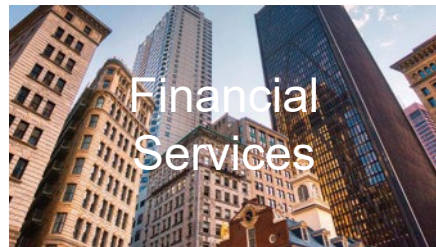
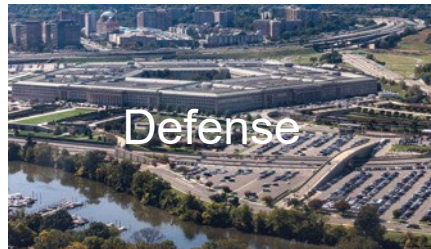
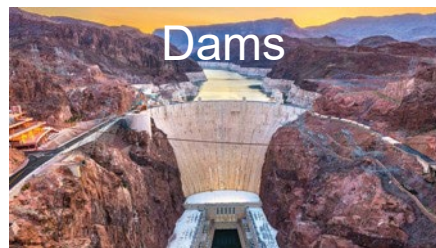


- Manufacturing
- Healthcare
- Agriculture
- Utilities

Cybersecurity Skills Shift



Incessant Attacks on Critical Infrastructure

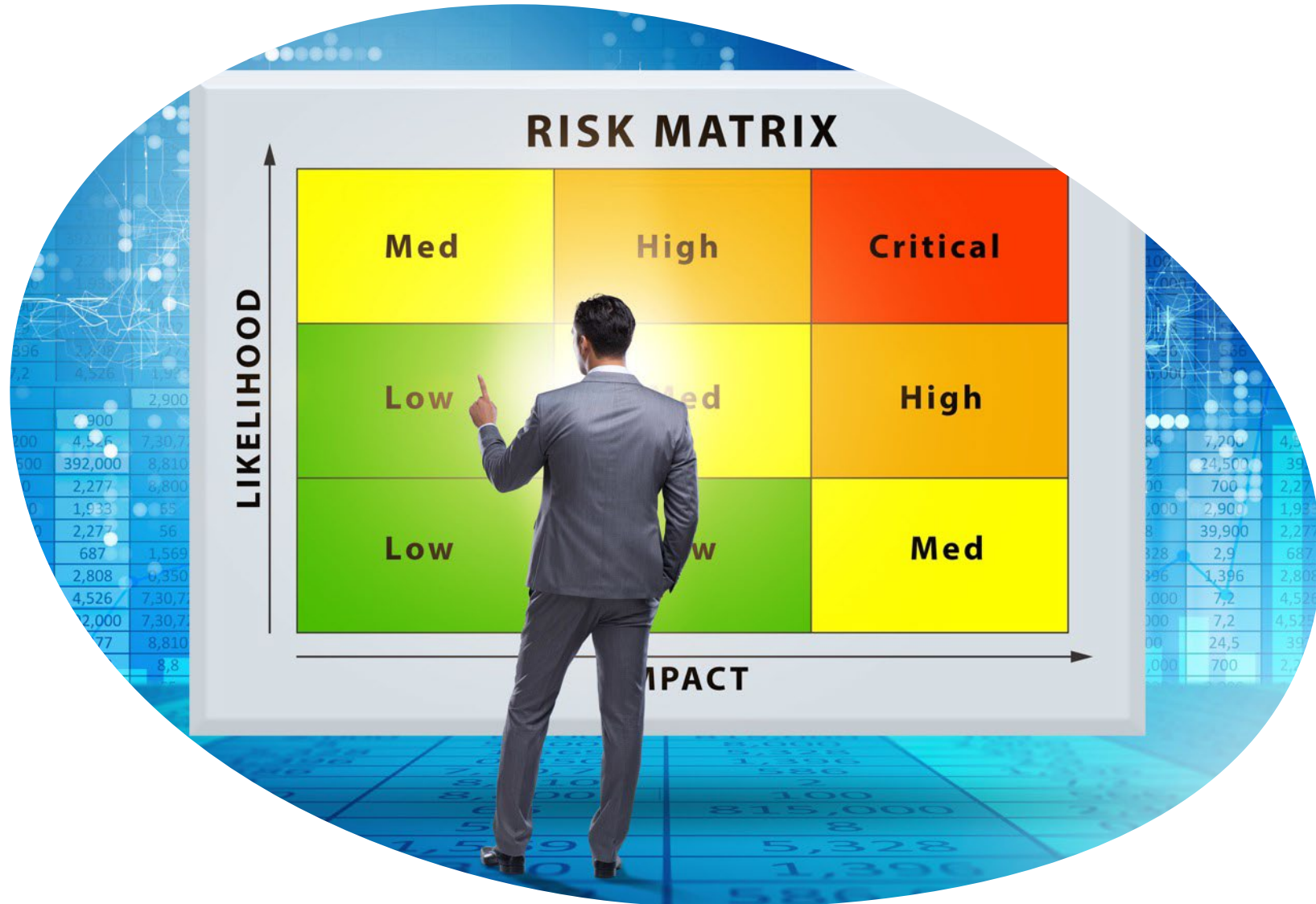


HOW TO PREPARE



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ENTERPRISE RISK MANAGEMENT APPROACH





STRONG LEADERSHIP/ BOARD RAPPORT

FOCUS ON RESILIENCE



- Regular IR plan testing
- High-Availability Architectures
- Strong Business Continuity Plans
- Protected Offline Backups



HARDEN TECHNOLOGY PLATFORMS

- Integrate Threat Intel
- Leverage AI
- Minimize Threat Surface
- Stay Abreast of Tool Capability and Efficacy
- Leverage vendor expertise to maximize protection

ACTIVELY MANAGE THIRD PARTY VENDORS

- Assess vendors prior to contracting/onboarding
- Conduct ongoing audits
- Require SBOMs from software vendors



MASTER THE FUNDAMENTALS

- 
- A hand is shown placing a wooden block on top of a stack of other wooden blocks. The blocks are arranged in a brick-like pattern, and the hand is positioned as if it has just placed the block or is about to. The background is a solid dark gray.
- Asset Management
 - Vulnerability Management
 - Configuration Management
 - Patch & Remediation Management
 - MFA
 - Network Segregation
 - Security Awareness Training
 - Incident Response Planning & Testing

A group of five business professionals are working in a modern office. They are seated at a long white desk, which is equipped with multiple computer monitors, keyboards, and various office supplies. The office has large windows in the background, providing a view of a city skyline. The lighting is bright and warm, suggesting a sunny day. The overall atmosphere is professional and collaborative.

INVEST IN YOUR RESOURCES

“Life is like riding a bike. To keep your balance you must keep moving.”

- Albert Einstein

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THANK YOU

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