

Cyber Threats Faced by Public Entities



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Local Gov't Data Breaches

When are we going to be hacked?



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Local Gov't Data Breaches

Reports are EVERYWHERE

Aug 2016: Hackers stole password of local official in Gila County, AZ

Sept 2016: DHS warns Congress that Russian hackers are targeting local election systems



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Local Gov't Data Breaches

But asking “when”
is the wrong question.

It already happened.



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Local Gov't Data Breaches

- Data breaches occur every 2-3 months
- On average, local government had 9.4 breaches in the last 2 years



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How have we been hacked?



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Local Gov't Data Breaches

Top 5 Cybersecurity Vulnerabilities

1. Passwords
2. Access
3. System Locks
4. Data Backups
5. User restrictions/tracking



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Policy Framework

- Security
- Privacy
- Data Management and Standardization
- Funding and Investment



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Technologies - Traditional

- Laptops
- Desktops
- Mobile Devices
- Software



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Technologies – Health Care

- Electronic visit verification (GPS)
- Home health monitoring
- Fitness trackers



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Technologies - Transportation

- Ports/GPS – charge for miles driven vs. gas tax
- Closed-circuit television for traffic



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Technologies – Public Safety

- Next Generation 911
- Dashboard cameras
- Body cameras
- Emergency management



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Technologies – Other

- Tourism (bluetooth/wifi)
- Facilities management
- Agricultural management
- Emergency management



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Federal vs. State/Local Gov't

- Recovery
- Prevention
- Detection
- Containment



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Federal vs. State/Local Gov't

- Negligent Insider
- Zero-day attacks
- Third-party mistakes
- Failure to patch



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Local Gov't Challenges

- Personnel
- Politics
- Budget
- Technologies
- Lack of sharing



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Local Government Risks

High Risk

- Applications
- Data bases
- Mobile devices

Low(er) Risk

- Storage devises
- Laptops/desktops



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Planning – Cyber Risks

Cyber incident vs. Cyber Disruption



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Planning – Cyber Risks

Cyber incident planning

Impacts

Targets

Causes



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Planning – Cyber Risks

Cyber disruption planning

Impacts

Targets

Causes



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Planning – Threat Intelligence

What is it?



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Planning – Threat Intelligence

Why not share?

- Slow & unwieldy
- Lack of resources
- Lack of trust



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Planning – Threat Intelligence

- Collaboration
- Situational Awareness
- Improve Security Posture
- Timeliness
- Actionability



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Planning – Cyber Analytics

“Cyber Analytics”

What is it?



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Questions?



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