Cybersecurity Threats in State Legislatures

Jeff Ford
Chief Technology/Security Officer
State of Indiana
Legislative Services Agency
Office of Technology Services

Certified Information Systems Security Professional (CISSP)
Global Information Assurance Certification (GSEC)

NALIT – Vice Chair
NALIT 2018 Cybersecurity Survey

- 25 states responded
- 48% use executive branch cybersecurity services
- 28% have a Chief Information Security Officer
- 26% have at least 1 dedicated Security Analyst
- 6 states use a security framework (NIST, ISO)
- 9 states provide security awareness training to legislators, but only 1 makes it mandatory
- 14 states provide security awareness training to legislative staff, but only 5 make it mandatory
"There's a war out there, old friend. A world war. And it's not about who's got the most bullets. It's about who controls the information. What we see and hear, how we work, what we think... it's all about the information! The world isn't run by weapons anymore, or energy, or money. It's run by little ones and zeroes, little bits of data. It's all just electrons (or photons 😊)"

--Cosmo, from Sneakers (1992)
8 Cybersecurity Truths

1. There is no 100% secure, only varying degrees of security
2. The most secure systems are the best managed systems
3. All good security is custom fit—compliance does not equal security
4. You can’t secure what you can’t control
5. You can’t prevent what you allow
6. You cannot process encrypted data... EVER
How hackers really work

A Crypto Nerd’s Imagination:
His laptop’s encrypted. Let’s build a million-dollar cluster to crack it.

No good! It’s 4096-bit RSA!
Blast! Our evil plan is foiled!

What Would Actually Happen:
His laptop’s encrypted. Drug him and hit him with this $5 wrench until he tells us the password.

Got it.
Securing our Devices

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Types of Hackers

- Organized Crime
- Nation State
- Script Kiddies
- Hacktivists
- Insiders
- Advanced Persistent Threat (APT)
Dear Google User,

We received a request to access your Google Account through your email address. Your Google verification code is:

689503

If you did not request this code, it is possible that someone else is trying to access the Google Account. Click HERE to lock your account from unregistered devices.

LOGIN

Sincerely yours,

The Google Accounts team
Social Engineering

LinkedIn

Ladders

Instagram

Facebook

Dice

Twitter

Legislative Services Agency
Office of Technology Services
To: Jeff Ford (jeff.ford@iga.in.gov)
From: Geoff DePriest (geoff.depriest@iga.in.gov)

Subject: Budget Meeting Follow-up

Please review the notes from our budget meeting this morning. Make sure track changes are on and return it to me when you are done.

Thanks,

Geoff

Attachment: 2018budget_v2
7. Security is, first and foremost, a people issue

8. The most dangerous thing in the world is what you think you know
Why security awareness?

- 87% of all breaches happened in minutes or seconds and 68% went undiscovered for months
- The majority of all breaches are found by non-IT staff
- Humans, just like other operating systems, have vulnerabilities, but they are psychological ones, not technical ones
- Humans overestimate risk for highly visual events and for events in which they are not in control
Things to Remember

• We don’t operate inside of castles anymore, protect your endpoints
• Our most valuable security assets are our employees
• Security can no longer be just part of someone's job description
Contact Information

Jeff Ford
Chief Technology/Security Officer
State of Indiana
Legislative Services Agency
Office of Technology Services

jeff.ford@iga.in.gov
Twitter: @jeffridford