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When do we adopt?
Are we being realistic?
Are we being honest
with ourselves?
Are we being gullible?







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Famous Last Words







5







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Famous Last Words




"Our patch management system works okay."

"We can handle this on our own!"



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Lone Ranger Approach





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Famous Last Words

"Our patch management system works okay."

"We can handle this on our own!"

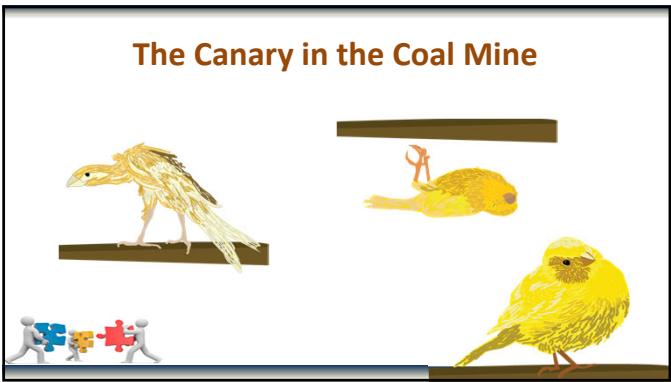
"We have no time to test!"



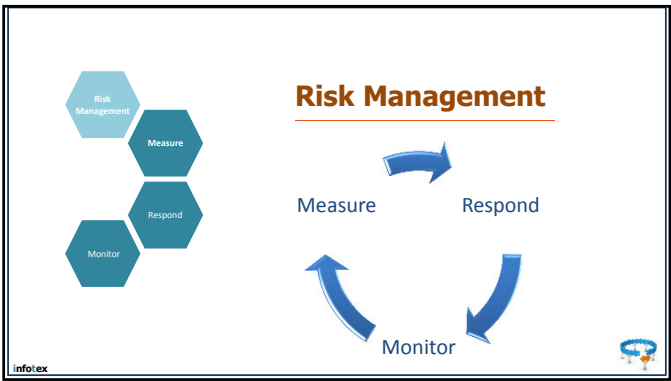
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Risk Management Metaphorically

```
graph LR; Measure[Measure] --> Respond[Respond]; Respond --> Monitor[Monitor]
```

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Risk Management Metaphorically

```
graph LR; A[What can make our birds sick?] --> B[Where should we put our birds?]; B --> C[Are we checking them birds?]
```

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What do we monitor?

➤ Our risk response:

- Transferred Risk
- Risk Mitigation
- Accepted Risk
 - Threats Exploiting Vulnerabilities

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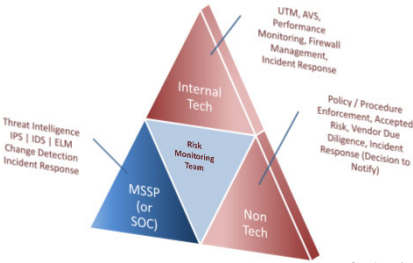
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Monitoring
Accepted Cyber Risk
equals
Looking for Threats Exploiting Vulnerabilities



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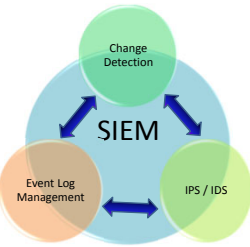
SIEM: Three Teams Working As a Team





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The SIEM Architecture using an MSSP

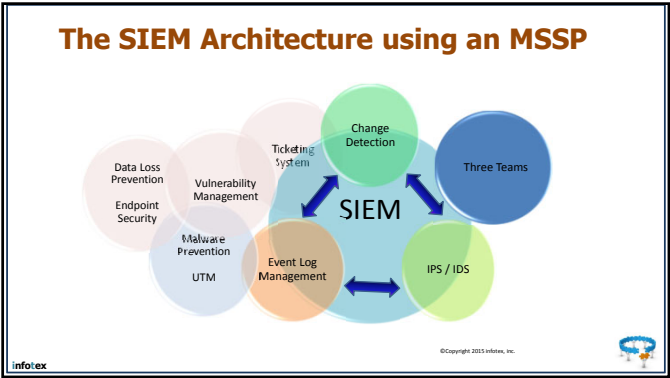




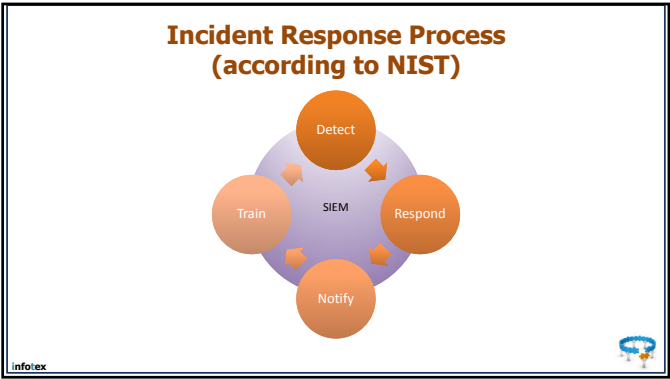
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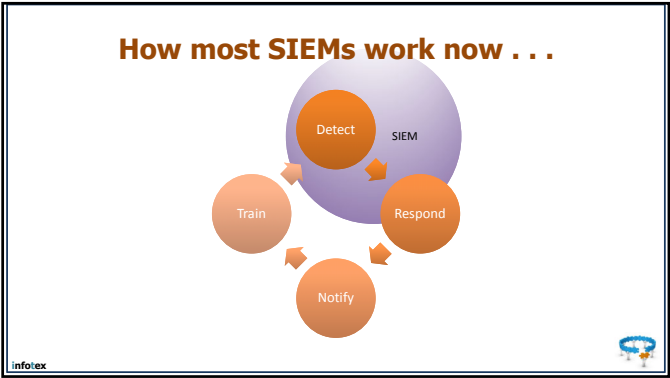
HOOSIER EDUCATIONAL COMPUTER COORDINATORS



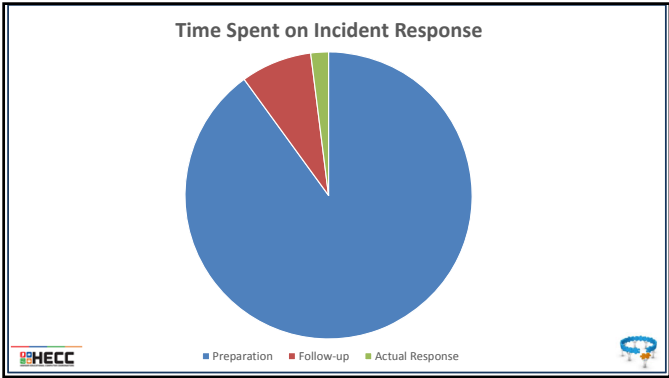
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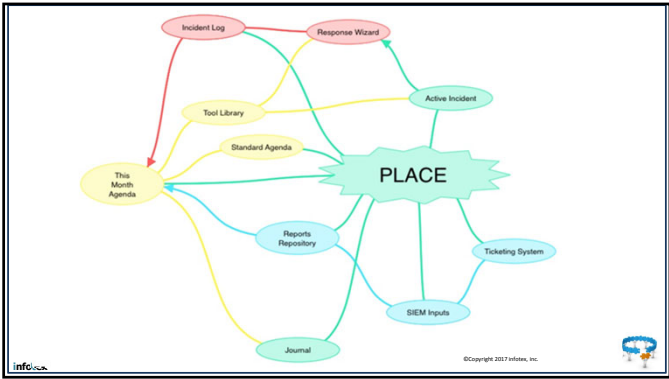
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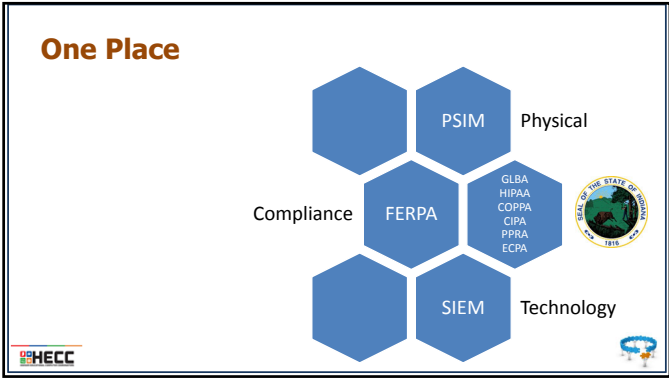
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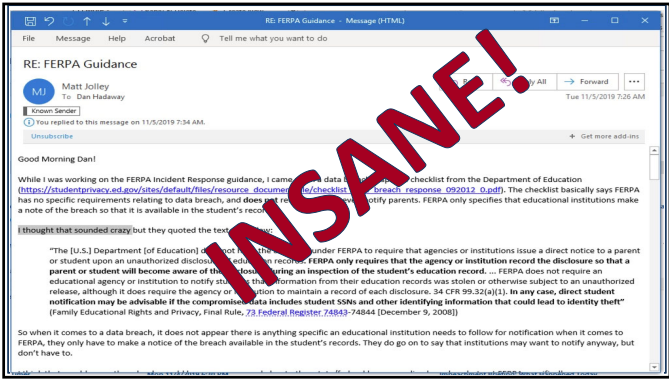
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In search of guidance


➤ Compliance pressure from three directions:





Student Information



Health Information (ePHI)



Financial Information (PII)



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infotex hecc portal

➤ **Free Tools:**

- Posters (free at posters.infotex.com)
- Compliance Resources
- Boilerplates*
- Incident Response Program Audit Checklist

➤ [my.infotex.com \freetools-hecc19](http://my.infotex.com/freetools-hecc19)

*Note that boilerplates are imperfect starting points!





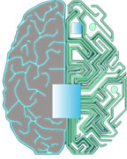
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Laws and Guidance

➤ Compliance Resources:

- FERPA Guidance Summary (for IT Governance as a whole)
- FERPA Guidance Summary – Incident Response
- FERPA Incident Response Checklist
- The actual State Law (Indiana)

➤ [my.infotex.com \freetools-hecc19](http://my.infotex.com/freetools-hecc19)



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Free Boilerplates!

- Technology Risk Monitoring Policy
- Technology Risk Monitoring Plan
- Incident Response Program Checklist

➤ <https://my.infotex.com/testing-your-siem/>

➤ my.infotex.com/freetools-hecc19

Note that boilerplates are imperfect starting points!



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The Cusp


External communications to parents, teachers, faculty, administration, law enforcement and/or the media must be reviewed by the **Technology Risk Monitoring Team**, and presented to **Management** for approval prior to releasing it to the public. Specifically:

Disclosure Incidents: [Indiana Law (Indiana Code section 24-4-9) / Applicable Local Laws] requires notification of parents, students, and/or faculty in the event of a data Best practice requires a five step process to be completed in order to respond to Disclosure Incidents:

1. Contain and Control the Incident
2. Triage: Assess nature and scope of incident and determine if notification is required. (Determine Disclosure Requirements) Consider enlisting the help of the MSSP, PTAC, forensics firms (approved by insurance), legal counsel and/or the insurance agents.
3. Consider notifying the State's Attorney General's Office. Consider notifying the Family Policy Compliance Office (FPCO).
4. If there is a potential for misuse: Notify Parents, Students, and Faculty. If not, document!
5. Conduct a post-incident review (Post-Mortem Review)

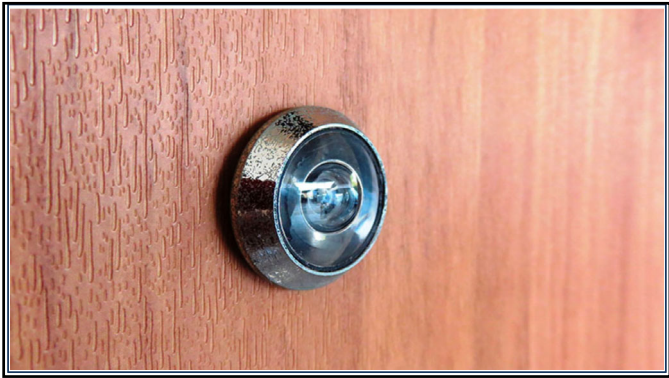
State Law defines "personal information" as:

1. a Social Security number that is not encrypted or redacted; or

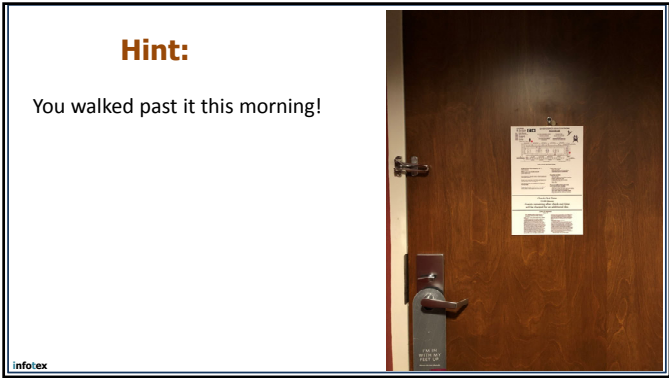


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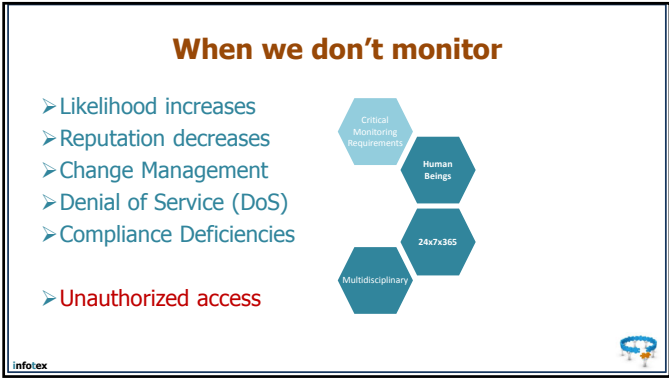
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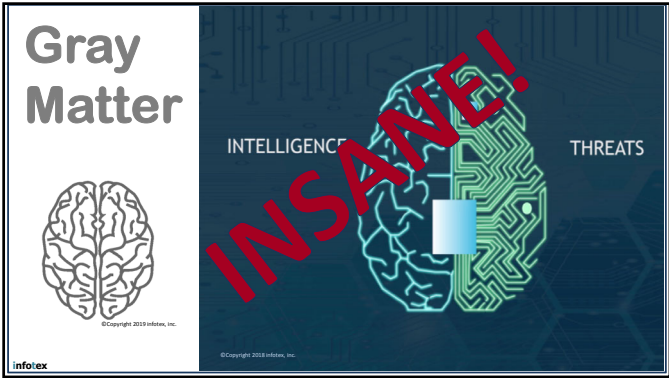
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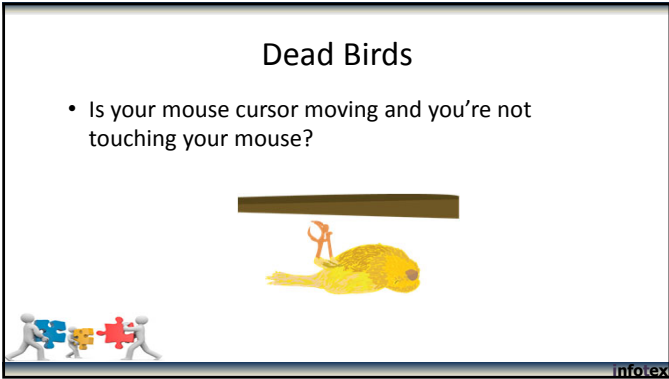
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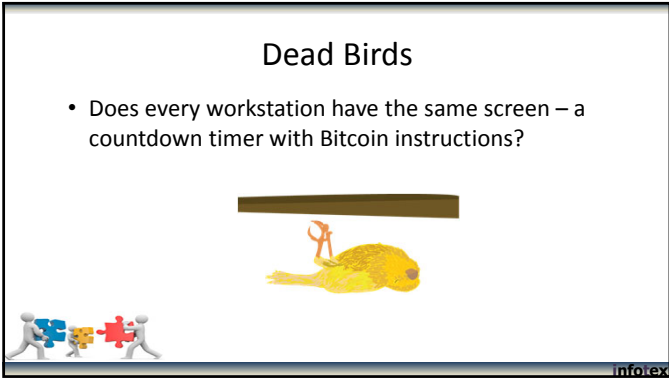
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Dead Birds

- Do you have a vendor due diligence process?



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Monitoring
Risk Transference







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MSSP Due Diligence

- Do not “host” Student data, PII or NPI, ePHI
- Do not even have “access” to sensitive data.

- But -

- Persistent Connection to the Internal Network
- A breach of an MSSP could lead to a breach of the bank



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MSSP Due Diligence

- Specific Service Level Agreements
 - Guaranteed Response Time
 - What is a "response?"
- FFIEC Examination Program (in banking)
- Third Party Audits
 - Vulnerability Assessments, Pen Tests
 - Social Engineering Tests
 - Network Configuration Audits
 - Non-technical Controls Review
- Adequate Insurance
- Quality Controls (see next slide)



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MSSP Quality Controls

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MSSP Due Diligence

- Test Your SIEM
 - That you can test should be part of your agreement.
 - You can implement many SIEM test processes internally.
- <https://my.infotex.com/testing-your-siem/>



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INSANE!



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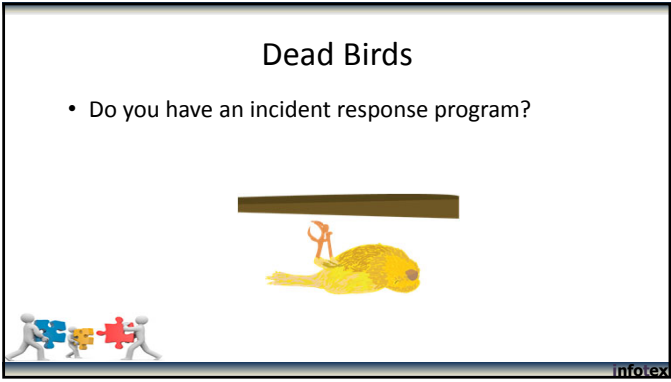
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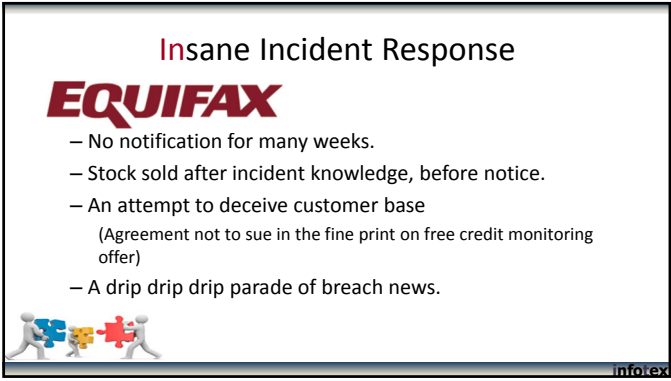
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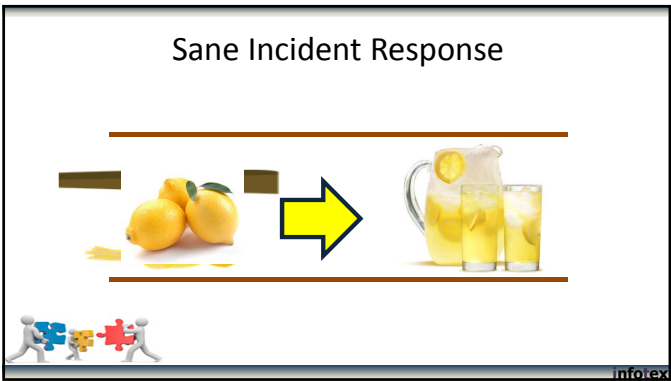
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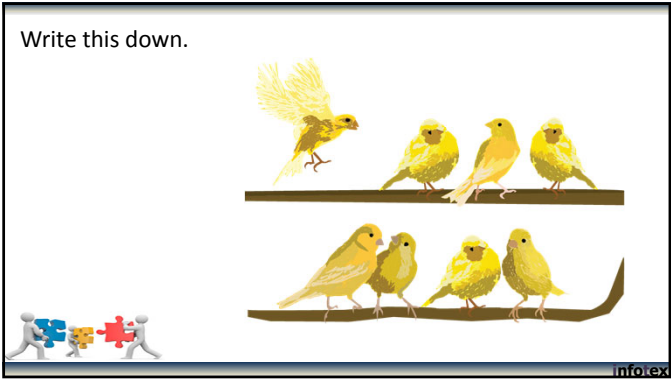
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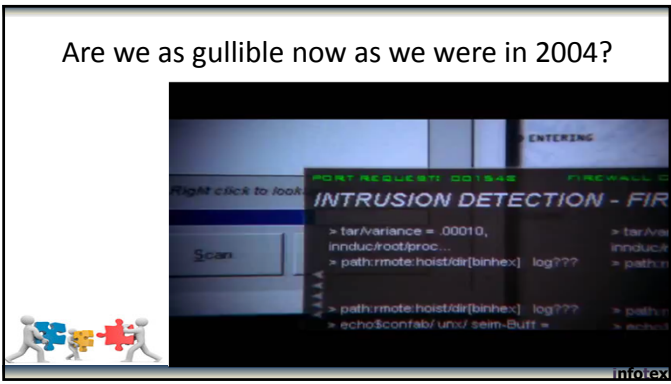
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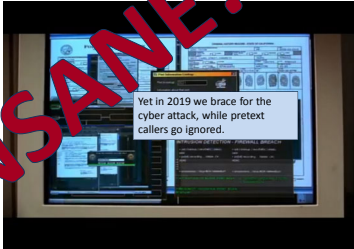


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That Hacks Look Like This



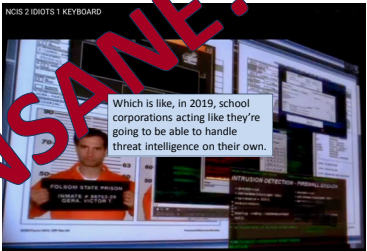
Yet in 2019 we brace for the cyber attack, while pretext callers go ignored.




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You Can Pull Up A Hacker's Profile



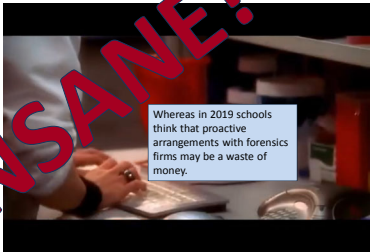
Which is like, in 2019, school corporations acting like they're going to be able to handle threat intelligence on their own.




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That You "Hack Back."



Whereas in 2019 schools think that proactive arrangements with forensics firms may be a waste of money.



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Four hands are better than two

INSANE!

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INSANE!!!

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The Sickest Bird

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infotex OER - Places to Go!

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➤ schools.infotex.com

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Evaluations





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Questions





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