



Michigan Cyber Command Center MC3

Technology & Education: A Law Enforcement perspective on cyber security

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Current trends (2018 / nationally)

Business Email Compromise	\$265,000,000
Romance/Confidence Fraud	\$123,000,000
Virtual Currency	\$61,000,000
Non-Payment/Non-delivery	\$50,000,000
Personal Data Breach	\$45,000,000





What's effecting education?

Business Email Compromise

Real world example

February 2018





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From: R Smith

Sent: Wednesday, February 21, 2018

To: J Lee

Subject: Today 02/21

I need you to set up a bank transfer to a vendor for a new bill that is due to be paid today. What details do you need?

I will send the bill for reference later.

Thanks R Smith

Sent from my iPhone





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From: R Smith
Sent: Wednesday, February 21, 2018
To: J Lee
Subject: Re: Today 02/21

It's for special building fund kindly wire \$24,980 per the below instruction. I will resend the bill for reference later.

Thanks R Smith

Sent from my iPhone

Lost: \$24,980





Mitigating BEC

Train your staff!

Have a policy regarding money wires/transfers/purchases

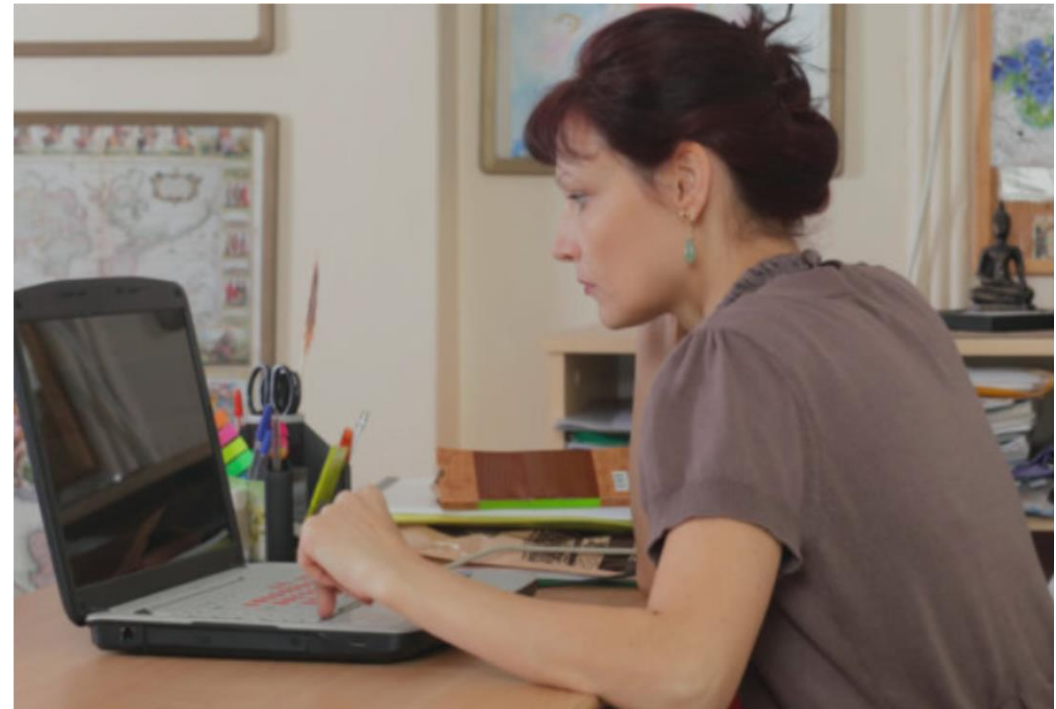
Adversaries will crawl web sites looking for those who list positions w/ email addresses





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The Insider threat





The Insider threat

- Distributed Denial of Service
- Extortion
- Breach/Intrusion aka 'hack'
- Threats





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The Insider threat

Have a good contact at your ISP

Does your ISP offer DDoS mitigation?

Contract with 3rd party?





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The Insider threat



Revoke access when an employee separates (sign-ons/email/apps)

Don't forget about service accounts with no/weak passwords





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The Insider threat

Monitor the network & logs – be proactive

Keep logs – at least 2 weeks worth – more if possible

Have a strong password policy





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The Insider threat

Document all incidents

Have a cyber use agreement policy

Consider offering an outlet for cyber talented students





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The Insider threat





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Cyber for students



merit





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