

 **HUBER**
& ASSOCIATES
Smarter IT Solutions

Missouri Municipal League Annual Conference
Securing Missouri Communities



Kent Hillman
Director of Technology Services
Huber and Associates, Inc.

2019

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Missouri Municipal League Annual
Conference




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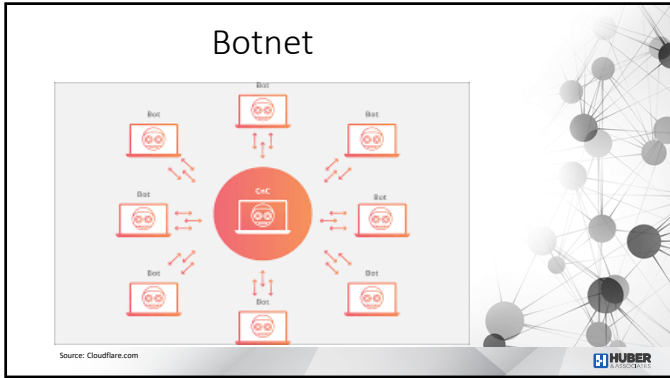
2

Agenda

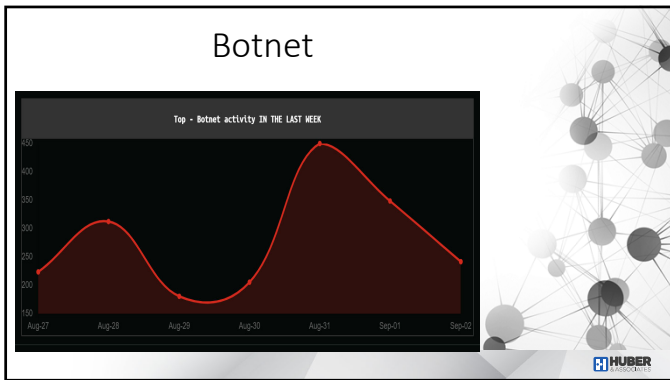
- **Define Cyber Threat**
- What is happening in Missouri
- What can we do at a community level
- What can I do as individual



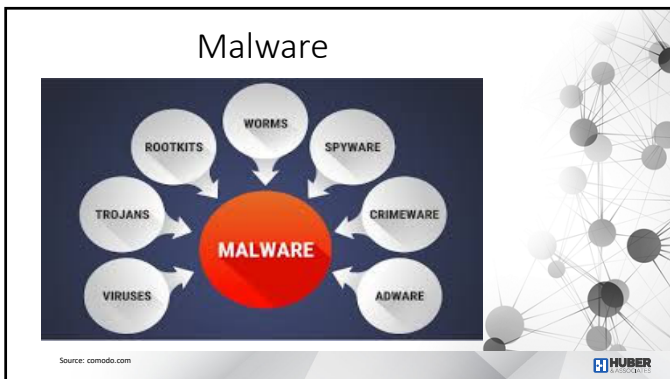
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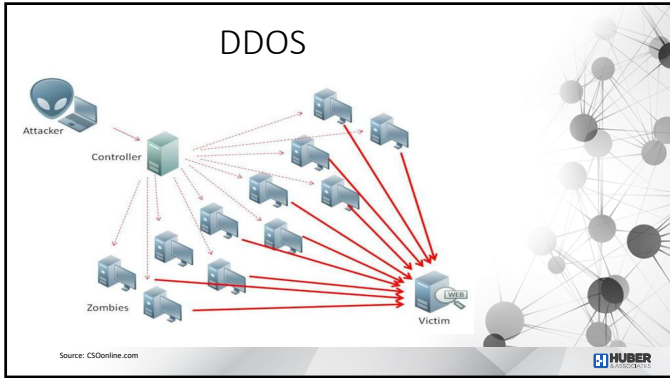
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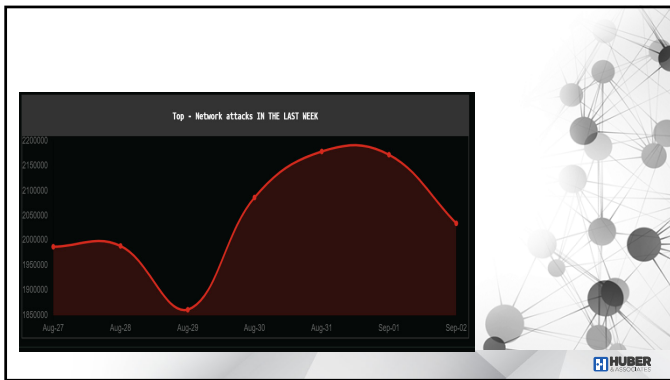
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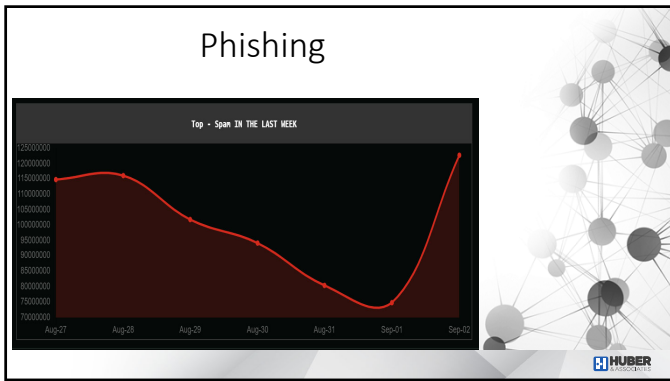
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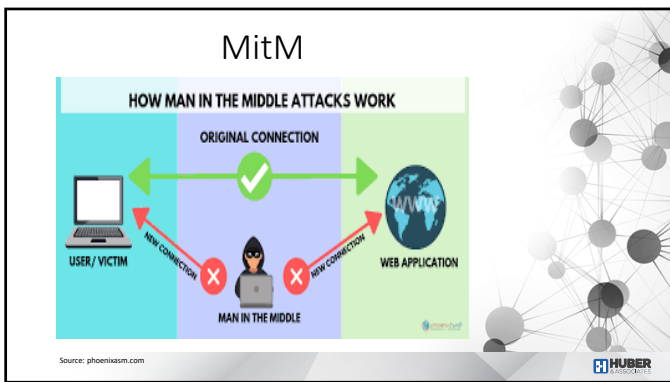
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- ## Agenda
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-

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State of Missouri

- August 9, 2014: Officer Darren Wilson shoots and kills Michael Brown, a young black teenager walking down the street in Ferguson, MO
- August 10: Police Chief reports in a news conference that Brown was unarmed, officer assaulted, one shot fired in car, one outside
- August 12: Witness, Dorian Johnson, recounts a very aggressive officer shooting his friend big Mike.
- August 10-13: Peaceful protests begin
- August 14: MSHP takes over security
- August 15: Officer Wilson named in shooting

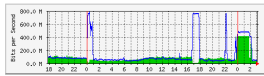


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DDoS Attack Begins

- August 16: Governor declares state of emergency and curfew, Missouri begins to see their first signs of a cyber attack



- 12:00am: First attack happens, on call network staff field call from NOC, before they dive too much into it the traffic subsides.
- 4:45pm: Second wave of attacks happen, service provider identifies destination as mo.gov, put block in place to relieve congestion; critical staff to war room
- 10:00pm: Third attack takes place

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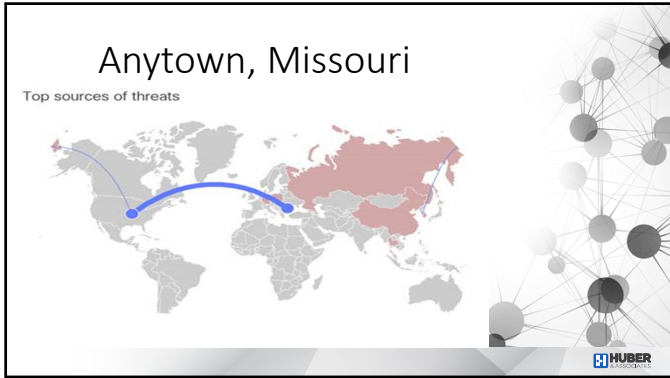
Anytown, Missouri



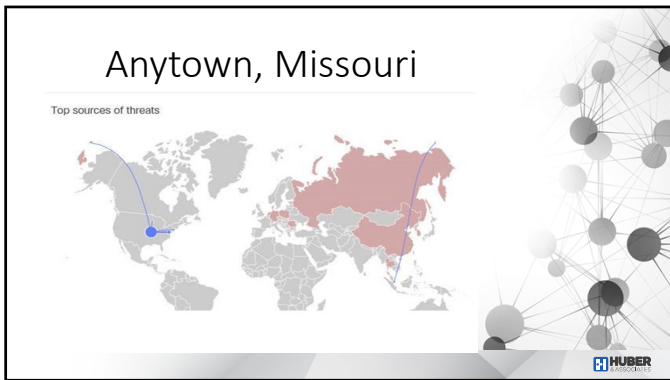
Blocked country	Country	Events
110.10.178.16	Korea, Republic of	37

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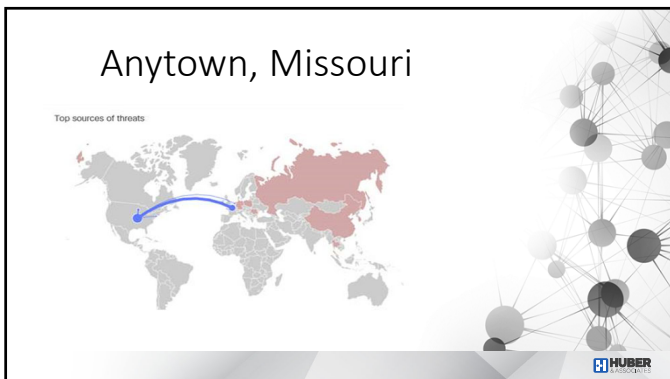
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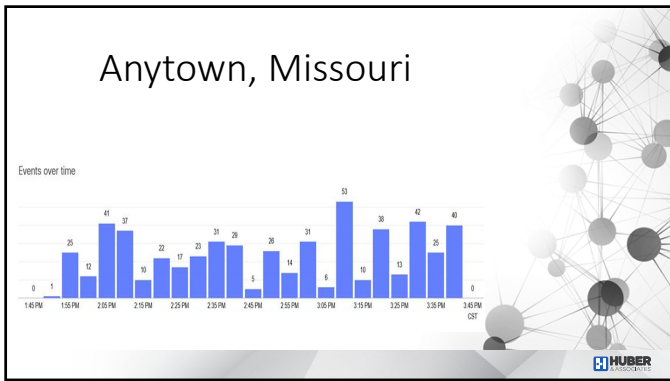
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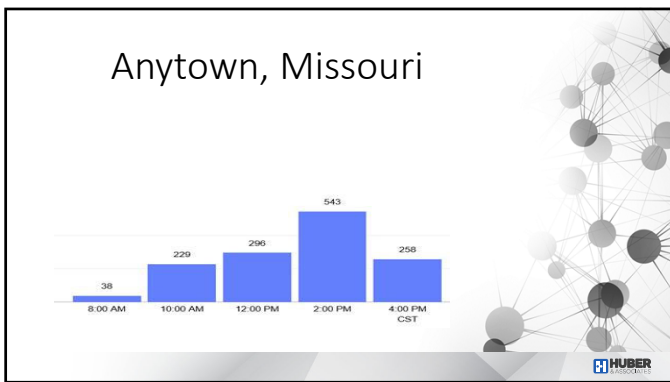
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- **What can we do at a Municipal level**
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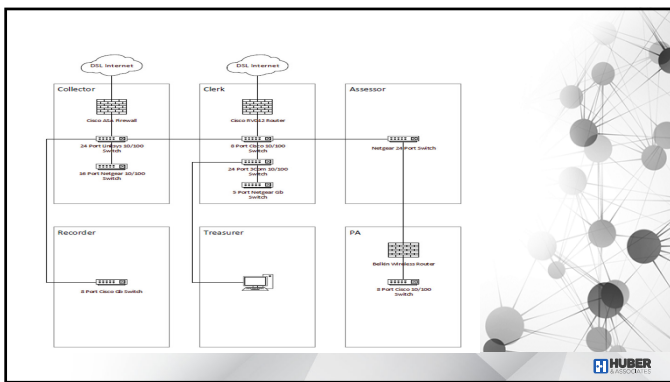
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What can we do

- Improve our use of limited resources...




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What can we do

- Implement a basic security strategy
- Ensure backup integrity

According to the US-CERT 85% of attacks are preventable, just from patching software like Adobe, Java, and Operating Systems (Yes, MAC users get viruses as well.)




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What can we do

- Educate employees and limit access
- Audit your security practices



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What can we do

- Develop a communication plan
- Consider Cyber Insurance
- Ensure you have policies in place



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Cyber Security Practices to help Protect your Business
The 80/20 rule

- Email filters for SPAM and malicious messages
- Vulnerability Scans from outside source on internal and external resources
- Don't allow your mobile computers to connect to "free wireless"
- Encrypt your mobile computer
- Continuous training for users (whether phishing test, overall general security, or targeted training)
- Acceptable Use Policies for your users/staff
- Logon Banners
- Patch, Patch, Patch



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Social Media



- Have a Social Media Policy for the Company!

Social media manager
 Who can access and post information on the companies behalf?
 What do you allow employees to post?


- Monitor Your Social Media Presence. Know what people are saying about you and how you look online. (Angie's List, Home Advisor, Judy's Book, etc...)
- What do you do if your social media profile gets hacked? Reputation damage, how do you recover?



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What can I do




- Become Cyber Aware.....
- Patch home PC's and networks
- Verify your account protection (Bank)
- Verify your account protection (Home)
- Develop family best practices

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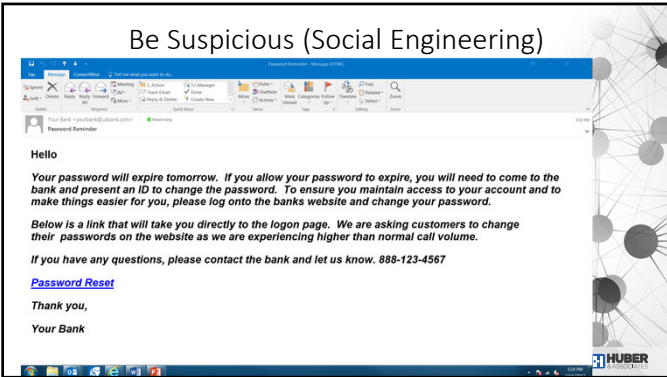
What can I do

- Develop basic password protections



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Be Suspicious (Social Engineering)



The screenshot shows a phishing email with the following text:

Hello

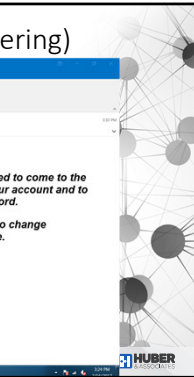

Your password will expire tomorrow. If you allow your password to expire, you will need to come to the bank and present an ID to change the password. To ensure you maintain access to your account and to make things easier for you, please log onto the banks website and change your password.

Below is a link that will take you directly to the logon page. We are asking customers to change their passwords on the website as we are experiencing higher than normal call volume.

If you have any questions, please contact the bank and let us know. 888-123-4567

[Password Reset](#)

Thank you,
Your Bank



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A man in a dark suit is using a sledgehammer to smash the word "FEAR" into pieces. The word is rendered in large, heavy, metallic letters. The background is a wall with graffiti, including the word "WIS".



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