

MUNICIPAL ELECTRIC UTILITIES OF WISCONSIN CYBERSECURITY SUMMIT

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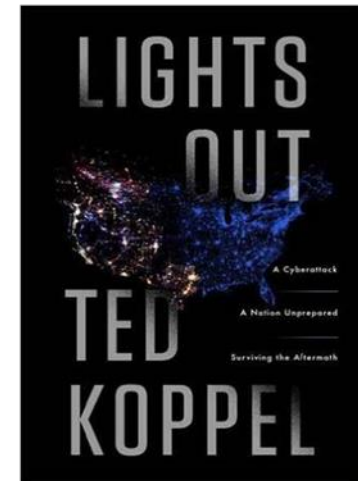
STATE OF WI CYBER STATISTICS

- 605 Million Filtered Emails
 - 532 Email Phishing Incidents
- 36 Million Vulnerability Scans
- 93,000 Preventive Malware Downloads
- 41,000 Attempts to Exploit Web Apps
- 108,000 Attempts to Break Passwords
- 32,000 Blocked Malicious Internet (IP) Addresses



WHY ME? - CYBER ATTACK MOTIVES

- Criminal Activity
 - Make Money
- Social Action
 - Make a Statement/Protest
- Global Economic Espionage
 - Steal trade secrets, etc.
- Cyber Warfare
 - Attacks on infrastructure, etc.



CYBER IN THE NATIONAL NEWS

- Colorado, DOT
- City of Atlanta, Georgia
- Jackson County, Georgia
- City of Baltimore, Maryland
- 22 Municipalities, Texas



COST OF A DATA BREACH

2018 Cost of a Data Breach Study by Ponemon -

Global average cost of a data breach \$3.86 million (\$148 / record)

- Notification
- Credit Monitoring
- Regulatory Fines/Penalties
- Investigation/Forensics
- Downtime/Loss of Productivity
- Loss of Citizens'/Customer Confidence



WHAT DO WE DO ABOUT IT?

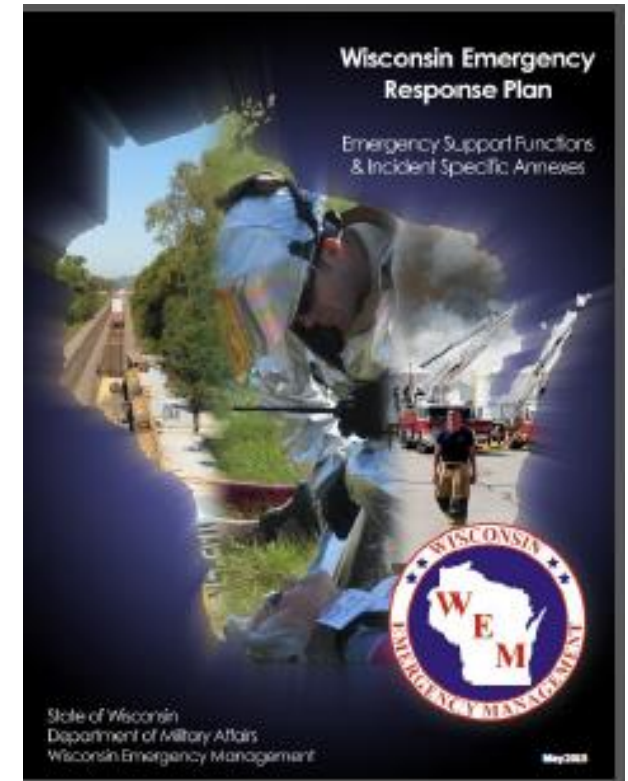
“It takes a network to defeat a network.”

Gen. Stanley A. McChrystal (2011)



CYBER INCIDENT RESPONSE ANNEX

- The Wisconsin Emergency Response Plan (WERP) is a comprehensive all-hazards plan, which provides for a statewide program of emergency management.
- Cyber Incident Response Annex:
 - Is an element of the WERP
 - Establishes a standardized, flexible, and scalable foundation for state agency preparation for, and response to a threat or attack involving state networks, local government networks, and networks involved in supporting critical infrastructure
 - Provides guidance to state agencies regarding mitigation, prevention, protection, and response to actual or potential cyber-related threats and attacks
 - Provides guidance to counties, tribes, and local units of government regarding available state assets and resources



CYBER RESPONSE TEAM (CRT)

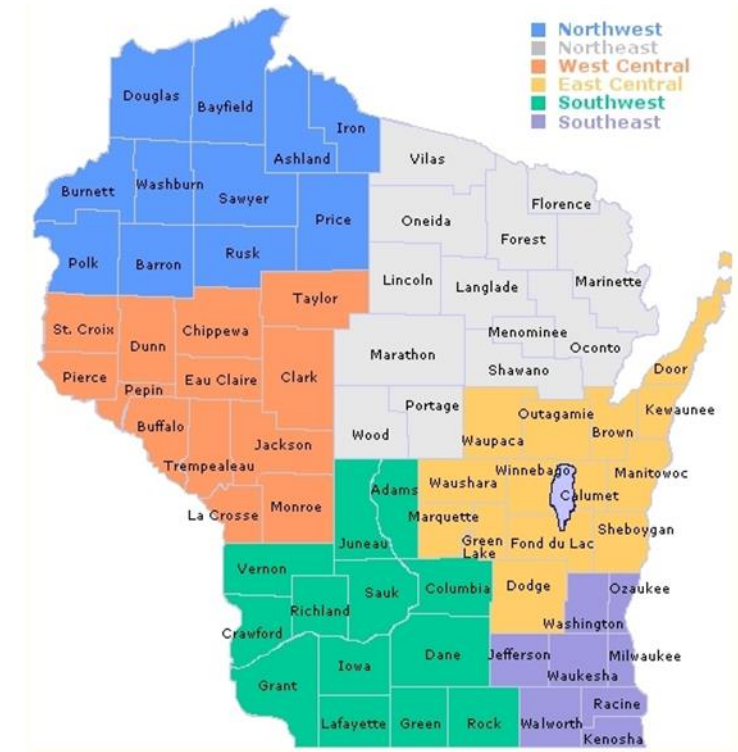
- US Department of Homeland Security Grant Funding
 - Initiated in 2015
 - Provides training to local government CRT members
 - Growing a cyber response capability for Wisconsin



LOCAL GOVERNMENT CYBER RESPONSE TEAMS (CRT)

Teams assigned to Wisconsin Emergency Management regions:

- **Team 1:** Southeast and East Central
- **Team 2:** Northwest, Northeast, West Central
- **Team 3:** Southwest



STATEWIDE SUPPORT TEAMS 4 AND 5

Team 4 – Statewide

WI National Guard Team - Supplements other teams

Team 5 – Statewide

Team is Private Sector Based – Representatives are from the following Companies:

- Alliant Energy
- Nextera Energies
- WE Energies
- MG&E (Madison Gas and Electric)
- American Transmission Company
- AT&T Communications
- Cisco
- 5Nines



CYBER EXERCISES

2015

September 8-9th, Ft. McCoy Wisconsin

October 27-28th, Milwaukee Wisconsin

2016

September 21st, Madison Wisconsin

November 14-15th, Ft. McCoy Wisconsin

2017

Nov. 8-9, 2017, Madison Wisconsin

2018

Mar. 20-23, 2018 Madison Wisconsin

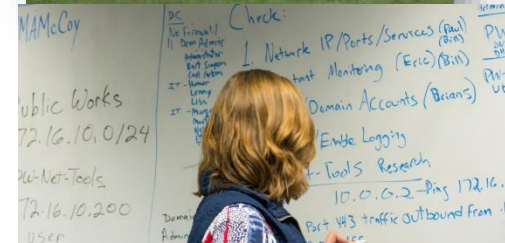
May 15-16, 2018 Cudahy Wisconsin

(Dark Sky participation)

2019

September 11-12

Madison, WI.



CRT IN ACTION

Response to multiple incidents in Wisconsin disrupting services.

- **Social Action**

- Doxing of Public Officials and Law Enforcement
- Swatting
- DDoS

- **Cyber Crime**

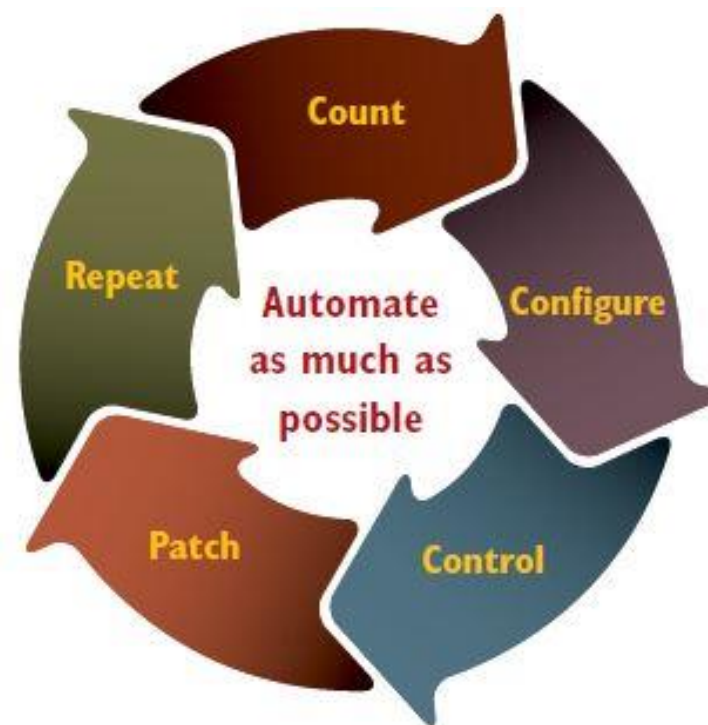
- Ransomware
- Phishing
- Web Site Defacement



BASIC PREVENTION – CYBER HYGIENE

Cyber Hygiene

- Know what you have
- Install patches / updates
- Follow secure configuration best practices
- Repeat



BASIC PREVENTION – OTHER GOOD PRACTICES

- Authentication and Access Control (Strong PW, Least Privilege, MFA, etc.)
- Backups (test restores, data, images, RPO, RTO)
- Plans (IR, DR, COOP)
- Security Awareness Training Program
- Beyond basic? NIST 800.53, CIS Critical Security Controls



RESOURCES

Oh yes, it's free!
(Included in Tax \$)

- WSIC and CRT
- Multi-State – Information Sharing and Analysis Center (MS-ISAC)
- Cybersecurity and Infrastructure Security Agency
- FedVTE – Federal Virtual Training Environment



CYBER INCIDENT ASSISTANCE

Cyber Incident:
WEM Duty Officer
800-943-0003

