

Cyber Byte: Real Life Lessons Learned

Hala V. Furst
Cybersecurity and Innovation Liaison
Department of Homeland Security
Private Sector Office





CYBERSECURITY IS A BUSINESS RISK

Businesses of all sizes are at risk:

- Resource constraints = operations/security tradeoff
- Smaller businesses are growing target of cyber-attacks
- Less likely to have robust security systems
- May not possess the same resources or knowledge as larger businesses
- May not be able to recover from an attack

DHS offers resources, programs, and tools to help businesses of all sizes
at <https://www.us-cert.gov/ccubedvp/business>



#ccubedvp



5 QUESTIONS YOU SHOULD ASK ABOUT CYBER RISKS

- What is the current level and business impact of cyber risks to our company? What is our plan to address identified risks?
- How is our executive leadership informed about the current level and business impact of cyber risks to our company?
- How does our cybersecurity program apply industry standards and best practices?
- How many and what types of cyber incidents do we detect in a normal week? What is the threshold for notifying our executive leadership?
- How comprehensive is our cyber incident response plan? How often is the plan tested?

DHS offers resources, programs, and tools to help businesses of all sizes
at <https://www.us-cert.gov/ccubedvp/business>





KEY CYBER RISK MANAGEMENT CONCEPTS

- Incorporate cyber risks into existing risk management and governance processes
- Begin cyber risk management discussions with your Leadership Team
- Implement industry standards and best practice-*don't rely on compliance*
- Evaluate and Manage Specific Cyber Assets
- Provide oversight and review
- Develop and test incident response plans and procedures
- Coordinate cyber incident response planning across the enterprise
- Maintain awareness of cyber threats

DHS offers resources, programs, and tools to help businesses of all sizes
at <https://www.us-cert.gov/ccubedvp/business>





THE GOOD NEWS



You don't have to outrun the bear!

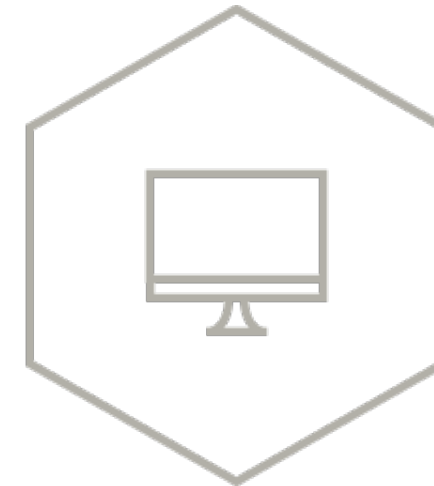
For the Criminal:

Soft, Low-Risk Target → Highest Profit



CYBERSECURITY: WHERE TO START

1. Understand and Address Common Vulnerabilities
 - National Vulnerability Database (<https://nvd.nist.gov>)
2. Determine what Cyber Events you Monitor
 - Threat, incident, and activity reports
 - Cybersecurity Framework
3. Conduct a Business Impact Assessment
 - Critical business functions
 - Contingency plans
4. Join an Information Sharing and Analysis Organization (ISAO)
 - <http://www.dhs.gov/isao>
5. Use DHS Programs and Resources
 - <http://www.us-cert.gov/ccubedvp>





GET INVOLVED

- Check out the website: www.us-cert.gov/ccubedvp
 - Sign up for the monthly bulletin (*located at bottom of website*)
- Familiarize yourself with the NIST Cybersecurity Framework
- Download the Cyber Risk Management Primer for CEOs and the SMB Toolkit
- Download the CRR or contact DHS for an onsite assessment
- Join or establish an ISAO: info@hq.dhs.gov
- Spread the word across your community
- Share with us a Cybersecurity Framework success story or resource, or ask a question: CCubedVP@hq.dhs.gov

www.US-CERT.gov/CCubedVP



Information Sharing: How to Share with DHS

- **Automated Indicator Sharing (AIS)**
 - Our initiative to implement the Cybersecurity Information Sharing Act
- **Cyber Information Sharing and Collaboration Program (CISCP)**
 - A robust analytic platform for public-private cooperation
- **Information Sharing and Analysis Centers (ISACs) and Information Sharing and Analysis Organizations (ISAOs)**
 - Fora to facilitate participation in all DHS information sharing programs, including AIS and CISCP



Federal Cyber Landscape

Law Enforcement

DOJ & FBI, Secret Service, Homeland Security Investigations (HSI)

Intelligence

CIA & NSA

Standards & Guidance

NIST (Dept. of Commerce)

Protect DOD Networks

Plan for/Conduct Cyber Operations Against Adversaries

Department of Defense (DOD)

Helping You Deal with Malicious Activity

Department of Homeland Security

National Protection & Programs Directorate (DHS/NPPD)



CYBER INCIDENT REPORTING: WHO CAN YOU CALL?

Asset Response:

- National Cybersecurity and Communications Integration Center NCCIC:
(888) 282-0870 or NCCIC@hq.dhs.gov
<http://www.us-cert.gov>

Threat Response:

- FBI Field Office Cyber Task Forces
<http://www.fbi.gov/contact-us/field>
- National Cyber Investigative Joint Task Force
NCIJTF CyWatch 24/7 Command Center
(855) 292-3937 or cywatch@ic.fbi.gov
- United States Secret Service
Field Office & Electronic Crimes Task Force
<http://www.secretservice.gov/contact/field-offices>



How DHS Helps the Private Sector Manage Cyber Risk

Best Practices

- NIST Cybersecurity Framework
- Risk Assessments
- Cyber Security Advisors

Information Sharing

- ISACs & ISAOs
- US-CERT & ICS-CERT Bulletins and Portals
- Automated Indicator Sharing
- CISCP: Closest Partners
- Enhanced Cybersecurity Services

Incident Response

- US-CERT
- ICS-CERT

Questions?

#ccubedvp

dhs.gov/ccubedvp

hala.furst@hq.dhs.gov

