

Cybersecurity: A Cyber Publication Study and Update

2017 HIPAA Summit

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Agenda

- A Review of Industry/Government Cybersecurity Reports
- Common Themes Found in the Cybersecurity Reports
- ONC Security and Cybersecurity Activities
- On the Horizon



Cybersecurity Reports

Report Name	Author	Commissioner	Release Date
Commission on Enhancing National Cybersecurity: Report on Securing and Growing the Digital Economy	National Institute for Standards and Technology (NIST)	President of the United States	December 1, 2016
Healthcare Information and Management Systems Society (HIMSS) Cybersecurity Position Statement	HIMSS	HIMSS	September 30, 2016
Joint Analysis Report (JAR)- 16-20296A — Grizzly Steppe	Department of Homeland Security (DHS) and Federal Bureau of Investigation (FBI)	DHS and FBI	December 29, 2016



Cybersecurity Commission Report

 Commission established by Executive Order 13718 and charged with making detailed cybersecurity recommendations:

"The Commission will make detailed recommendations to strengthen cybersecurity in both the public and private sectors while protecting privacy, ensuring public safety and economic and national security, fostering discovery and development of new technical solutions, and bolstering partnerships between Federal, State, and local government and the private sector in the development, promotion, and use of cybersecurity technologies, policies, and best practices."



REPORT ON SECURING AND GROWING THE DIGITAL ECONOMY



Cybersecurity Commission Report, cont'd

Expert input from:

- » National Institute for Standards and Technology (NIST)
- » Department of Homeland Security (DHS)
- » Department of Defense (DoD)
- » U.S. Department of Justice
- » General Services Administration (GSA)
- » U.S. Department of the Treasury
- » Public Contributors (1,100 comments)

Commission Recommendations – ONC Interest

- Incent the sharing of threat information, and how to act on such information, through public/private collaboration (Recommendation 1.2, starts at p. 14)
- Increase the use of strong identity authentication (Recommendation 1.3, starts at p. 16)
- Develop concrete efforts to support small- and medium-sized businesses (Recommendation 1.5, starts at p. 21)

Commission Recommendations, cont'd

General Cybersecurity

- » Improve consumer awareness of cybersecurity in managing their own affairs
- Impose cybersecurity standards by agency rulemaking when appropriate
- » Expand qualified cybersecurity workforce
- » Improve government management of data assets and procurement, including a more influential role for the Office of Management and Budget (OMB), using Enterprise Risk Management techniques
- Collaborate internationally











HIMSS Cybersecurity Position Statement

- HIMSS and cyber experts from various sectors outlined a position statement to encourage a robust cybersecurity future state
- Three key recommendations for U.S. Department of Health and Human Services (HHS):
 - » Adopt a universal information privacy and security framework for the health sector
 - » Create an HHS cyber leader role (an elevated chief information security officer)
 - » Address shortage of qualified cybersecurity professionals



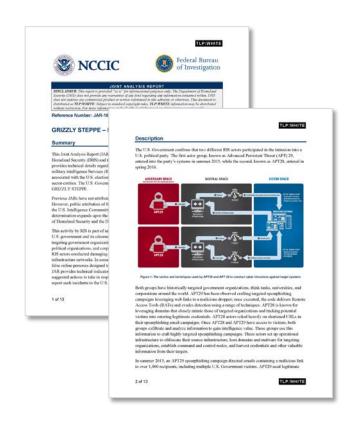
DHS/FBI JAR on Grizzly Steppe



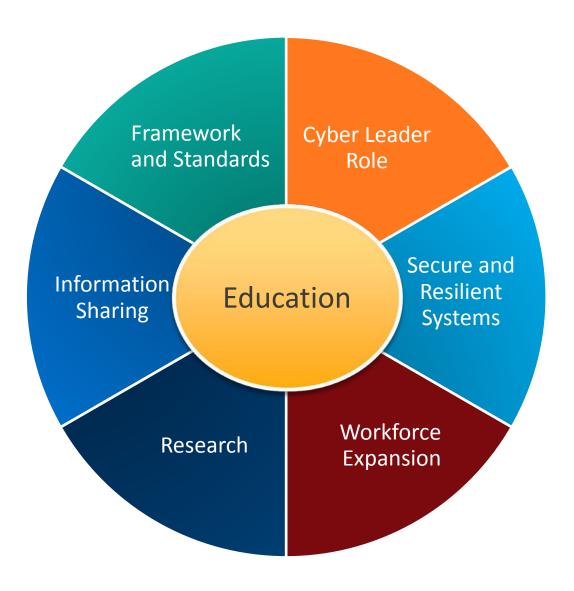
- Provides technical details regarding the tools and infrastructure used by the Russian civilian and military intelligence services (RIS) to compromise and exploit networks and endpoints associated with a range of U.S. Government, political, and private sector entities
- Refers to this malicious RIS cyber activity as "Grizzly Steppe"

JAR Recommendations

- Recommended Mitigations Cybersecurity Best Practices
 - » Data Backups
 - » Risk Analysis and Remediation
 - » Staff Training
 - » Vulnerability Scanning and Patching
 - » Application Whitelisting
 - » Incident Response
 - » Business Continuity Planning
 - » Penetration Testing

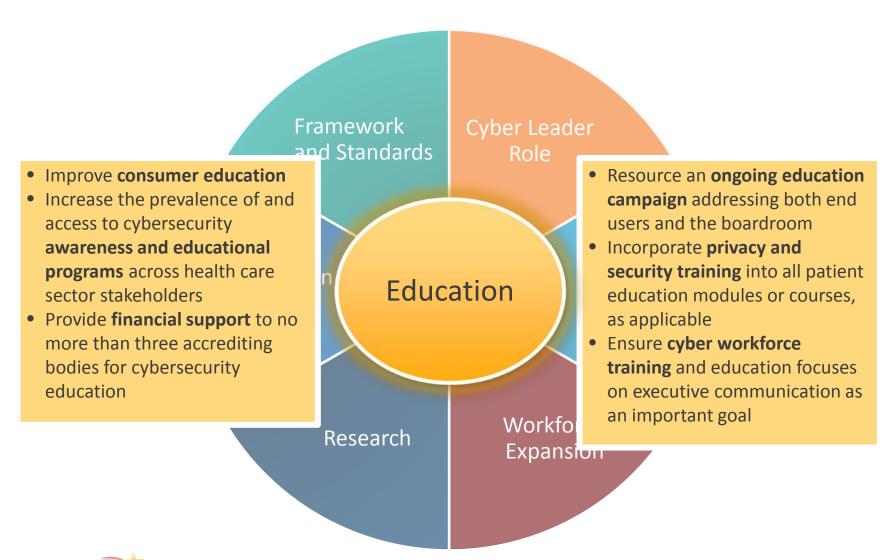


Publication Common Themes

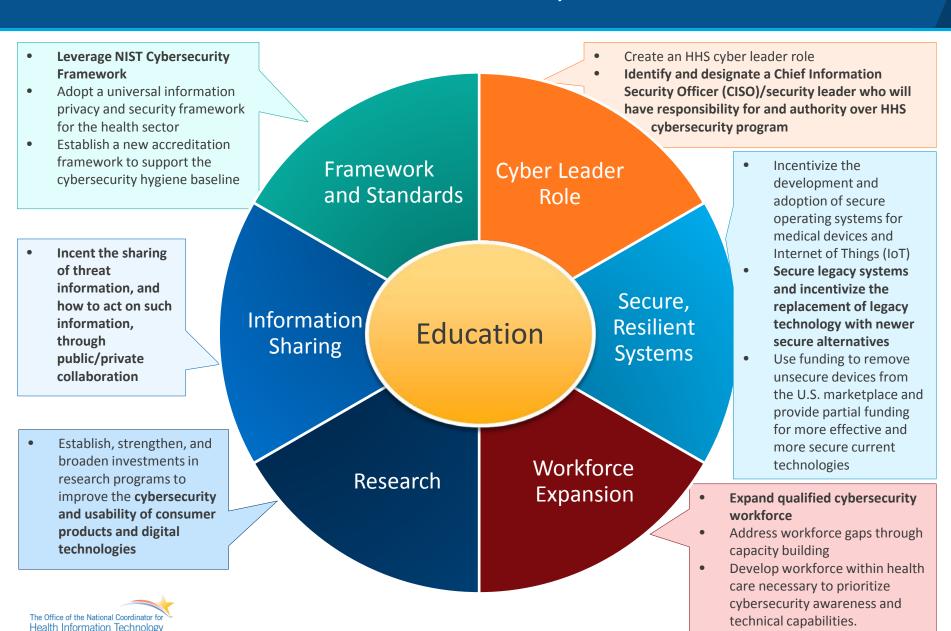




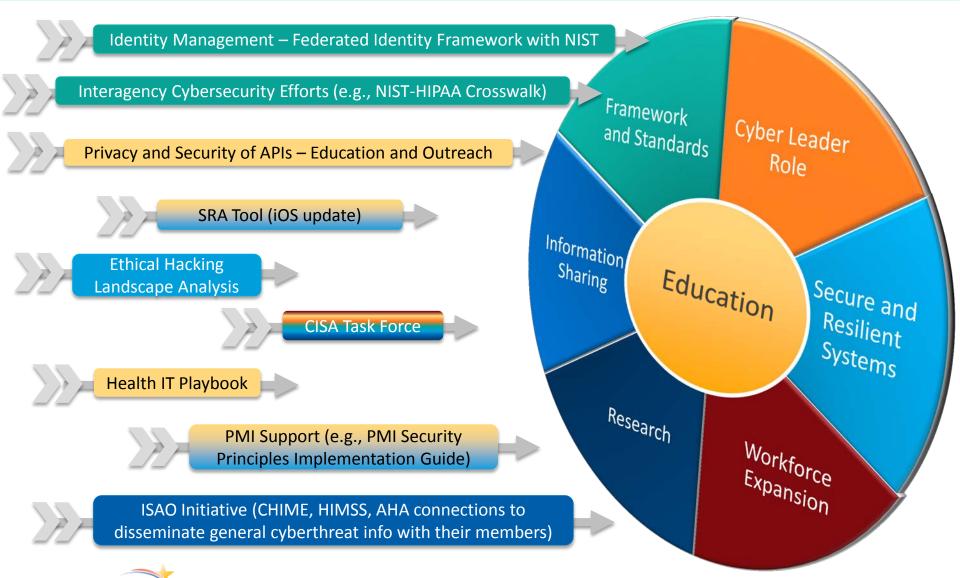
Publication Common Themes, cont'd



Publication Common Themes, cont'd



ONC/OCPO Security and Cybersecurity Activities – Hitting the Mark



On the Horizon for ONC/OCPO

Unified Approach to Cybersecurity

Enhanced SRA Tool
(incorporating NIST
Cybersecurity
Framework)

CISA Task Force Report Best Practice
Guidance on
Federated
Identities

Trusted
Exchange
Framework

API Education Tool

ISAO – Expanding Cyberthreat Information-Sharing Reach

Key ONC/OCPO Resources

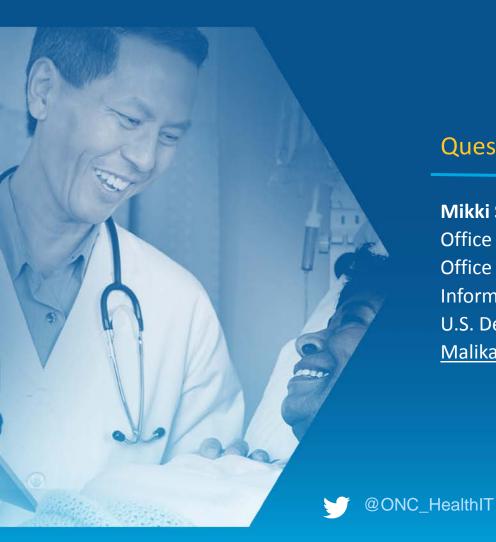
- Guide to Privacy and Security of Electronic Health Information
- Mobile Health Apps Interactive Tool
- Patient Access Videos
- API Task Force Recommendations
- Report to Congress on Non-Covered Entities
- Security Risk Assessment Tool (Updated)
- National Governors Association (NGA)
 Interoperability Roadmap for States
- Health IT Playbook
- Privacy and Security Training Games
- Privacy and Security Technology Learning Collaborative
 - » PrivacyandSecurityTLC@hhs.gov











Questions?

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