



March 31, 2016
12pm EST
Presented by the ISSA Healthcare SIG



Existing Tools and Frameworks for Securing the Healthcare Industry

Agenda

- ❑ Presenter Introduction & Webinar Contributors
- ❑ ISSA & Healthcare SIG Overview
- ❑ Quick Case Study: Ransomware
- ❑ Guiding Principals of Information Systems Security
- ❑ HIPAA/HITECH Rule Highlights
- ❑ Tour Existing Tools and Resources
- ❑ Frameworks and Organizational Certifications
- ❑ Summary
- ❑ Questions



2

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- ❑ HIPAA/HITECH Rule Highlights
- ❑ **Tour Existing Tools and Resources**
- ❑ Frameworks and Organizational Certifications
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- ❑ Questions



3

Presenter Introduction

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4

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5

DISCLAIMER

This presentation is for educational purposes only and does not constitute professional or legal advice. Contents include opinions and interpretations of the authors and presenter.



6



Mission Statement

ISSA is a non-profit organization for the information security profession committed to promoting effective cyber security on a global basis.

- a) Being a respected forum for networking and collaboration
- b) Providing education and knowledge sharing at all career lifecycle stages
- c) Being a highly regarded voice of information security that influences public opinion, government legislation, education and technology with objective expertise that supports sound decision-making



FACTS

- Founded in 1984.
- 11,000 members from across the globe.
- 140 local chapters in 70 countries.
- Governed by a member elected Board of 13.



Healthcare Special Interest Group (SIG)

Vision: Establish and maintain collaborative models for information security within healthcare organizations.

Mission: Drive collaborative thought and knowledge-sharing for information security leaders within healthcare organizations.

- Must be an ISSA member to join; no additional cost or requirement.
- Over 200 members from across the globe.
- Secure website provides: Group Directory, Event Calendar, Blogs, Forums, and Photo Gallery.



Quick Case Study

Hollywood Presbyterian Medical Center (HPMC)
February 2016

- Event:** A hacker, using a ransomware virus, seized control of the hospital's computer systems for approximately one week.
- Reported Contingency Operations:**
 - Some patients transported to other hospitals
 - Returned to pen and paper for record-keeping
 - Fax machines for document exchange
- Virtually Limited Recovery Options:**
 - Restore from backups
 - Pay Ransom (HPMC ended up paying ~\$17,000)



Quick Case Study

Hollywood Presbyterian Medical Center (HPMC)
February 2016

- Questions...**
 - Was malware protection present and up-to-date?
 - Host Intrusion Detection/Prevention
 - Network Intrusion Detection/Prevention
 - Were data backups available and current?
 - Was there a formal Contingency Plan in place?
 - Was there a formal Emergency Mode Operation Plan in place?



Guiding Principal of Information Systems Security

Over Arching Goal...

The primary goal of Information Systems Security is to reduce risk to an acceptable level.

Considerations...

- Compliance Requirements
- Organizational Risk Tolerance (appetite)
- Contractual Requirements
- Value of data and systems relative to C-I-A



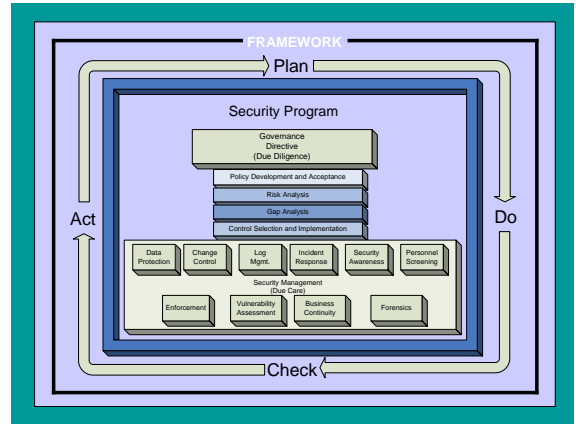
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HIPAA Background

Health Insurance Portability and Accountability Act

- Federal Law enacted in 1996
- Elements:
 - Privacy Rule
 - Transactions and Code Set Rule
 - Security Rule
 - Unique Identifier Rule (National Provider Identifier)
 - Enforcement Rule



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 - Security Rule**
 - Unique Identifier Rule (National Provider Identifier)
 - Enforcement Rule



Omnibus Final Rule Background

- Department of Health and Human Services (HHS) set rules for the statutory changes under the **HITECH Act**, enacted as part of the American Recovery and Reinvestment Act of 2009
- Elements:
 - Meaningful Use - Advance Health Information Technology
 - Business Associates bound to HIPAA Compliance
 - Pro-Active Audits by the Office of Civil Rights (OCR)
 - New Breach Notification Requirements
 - Increased criminal and civil penalties



HIPAA Security Rule Guiding Statement

Covered Entities and Business Associates must maintain reasonable and appropriate Administrative, Technical, and Physical safeguards to ensure the Confidentiality, Integrity, and Availability (C-I-A) of electronic Protected Health Information (ePHI).



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HIPAA/HITECH Security Rule Highlights

One Size Does Not Fit All

When a Covered Entity or Business Associate is deciding which security measures to use, the Security Rule does not dictate those measures, but requires the organization to consider:

- Its size, complexity, and capabilities,
- Its technical, hardware, and software infrastructure,
- The costs of security measures, and
- The likelihood and possible impact of potential risks to ePHI.

HIPAA/HITECH Security Rule Highlights

Organizational Requirements:

If a Covered Entity (CE) knows of an activity or practice of the Business Associate (BA) that constitutes a material breach or violation of the BA's obligation, the CE must take reasonable steps to cure the breach or end the violation. Violations include the failure to implement safeguards that reasonably and appropriately protect ePHI.

ISSA 25

HIPAA

A risk analysis/assessment process includes, but is not limited to, the following activities:

- Evaluate the likelihood and impact of potential risks to ePHI
- Implement appropriate security measures to address the risks identified in the risk analysis
- Document the chosen security measures and, where required, the rationale for adopting those measures, and
- Maintain continuous (on-going), reasonable and appropriate, security protections

ISSA 26

A Tour of Tools and Resources for HIPAA Security Management

Public/Government Supported:

- U.S. Department of Health and Human Services (HHS.gov)
- U.S. Government Publishing Office (ECFR.gov)
- National Institute of Standards and Technology (NIST.gov)
- HealthIT.gov (in partnership with the [National Learning Consortium](#))

Privately Supported:

- Google - Vendor Security Assessment Questionnaire (VSAQ)
- HITRUST Alliance
- International Organization for Standardization (ISO)

ISSA 27

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ISSA 28

A Tour of Tools and Resources for HIPAA Security Management

U.S. Department of Health and Human Services (HHS)

Path: HHS Home (HHS.gov) > HIPAA > HIPAA for Professionals

- "Go To" place for official HIPAA/HITECH Privacy and Security Rule information.
- Site does not contain tools (except one for healthcare providers).

ISSA 29



A Tour of Tools and Resources for HIPAA Security Management

U.S. Government Publishing Office
The Electronic Code of Federal Regulations
(e-CFR)

Appendix A to Subpart C of Part 164 Security Standards: Matrix

Potential Use: A reference for mapping HIPAA Security Standards to the Implementation Specifications. Can be used as a “checklist”, of sorts.



Standards	Section	Implementation Specifications (S) - Proposed (P) - Addressable (A)
Security Management Process	Administrative Subpart	
SA 164.308(a)	164.308(a)	Risk Analysis (S)
		Risk Management (S)
		Security Process (S)
		Information System Activity Monitor (S)
Organizational Security Responsibility	164.308(a)	(S)
Administrative Security	164.308(a)	Administrative control Evaluation (S)
		Machine Operation Monitoring (S)
		System Configuration (S)
Information System Management	164.308(a)	Building Hardware and Configuration Protection (S)
		System Configuration (S)
Security Awareness and Training	164.308(a)	Security Establishment and Evaluation (A)
		Security Awareness (S)
Security Incident Procedures	164.308(a)	Security Incident Monitoring Software (A)
		Personnel Management (S)
		Response and Reporting (S)
Contingency Plan	164.308(a)	Data Backup Plan (S)
		Disaster Recovery Plan (S)
		Information System Backup Plan (S)
		Security and Incident Procedures (S)
		Operations and Data Integrity Analysis (S)
Business Associate Contracts and Other Arrangements	164.308(a)	Business Associate (Other management) (S)
Physical Access Controls	Physical Subpart	
		Programs Operating (A)
		Security Security Plan (S)
		Access Control and System Protection (S)
		Documentation (S)
Facilities and Equipment	164.308(a)	(S)

NIST A Tour of Tools and Resources for HIPAA Security Management

National Institute of Standards and Technology (NIST)

Path: NIST Home (NIST.gov) > Information Technology Portal

- ❑ NIST security specific documents:
 - ❑ Managing Information Security Risk: Organization, Mission, and Information System View (800-39)
 - ❑ Framework for Improving Critical Infrastructure Cybersecurity (aka, NIST CSF)
 - ❑ NIST CSF – HIPAA Security Crosswalk
 - ❑ An Introductory Resource Guide for Implementing the HIPAA Security Rule (800-66-R 1) [not updated since 2008]
 - ❑ Many others: <http://csrc.nist.gov/publications/PubsSPs.html>
- ❑ NIST HIPAA Security Rule (HSR) Toolkit (downloadable)



This publication places information security into the broader organizational context of achieving mission/business success. The objective is to:

- Ensure that senior leaders/executives recognize the importance of managing information security risk and establish appropriate governance structures for managing such risk;
- Ensure that the organization's risk management process is being effectively conducted across the three lines of organization, mission/business processes, and information systems;
- Foster an organizational climate where information security risk is considered within the context of the design of mission/business processes, the definition of an overarching enterprise architecture, and system development life cycle processes; and
- Help individuals with responsibilities for information system implementation or operation better understand how information security risk associated with their systems translates into organization-wide risk that may ultimately affect the mission/business success.

Framework for Improving Critical Infrastructure Cybersecurity

[aka, NIST CSF]

Version 1.0

National Institute of Standards and Technology

February 12, 2014

Critical Infrastructure Sectors
 There are 16 critical infrastructure sectors whose assets, systems, and networks, whether physical or virtual, are considered so vital to the United States that their incapacitation or destruction would have a debilitating effect on security, national economic security, national public health or safety, or any combination thereof.
Healthcare is a Critical Infrastructure Sector

Building from those standards, guidelines, and practices, the Framework provides a common taxonomy and mechanism for organizations to:

- 1) Describe their current cybersecurity posture;
- 2) Describe their target state for cybersecurity;
- 3) Identify and prioritize opportunities for improvement within the context of a common and repeatable process;
- 4) Assess progress toward the target state;
- 5) Communicate among internal and external stakeholders about cybersecurity risk.

Category	Function	Subfunction	Capability
Identify	ID.ID	ID.ID.A	Business Environment
		ID.ID.B	System Interactions
		ID.ID.C	Assets
		ID.ID.D	Capabilities
Protect	PR.PF	PR.PF.A	Access Control
		PR.PF.B	Awareness and Training
		PR.PF.C	Incident Response
		PR.PF.D	Malware Defenses
Detect	DE.DE	DE.DE.A	Continuous Monitoring
		DE.DE.B	Incident Detection
		DE.DE.C	Alert Analysis
		DE.DE.D	Incident Response
Respond	RS.RS	RS.RS.A	Incident Response
		RS.RS.B	Recovery
		RS.RS.C	Post-Incident Activity
		RS.RS.D	Lessons Learned
Recover	RC.RC	RC.RC.A	Recovery Planning
		RC.RC.B	Recovery Operations
		RC.RC.C	Recovery Testing
		RC.RC.D	Recovery Improvement

HIPAA Security Rule Crosswalk to NIST Cybersecurity Framework

Category	Function	Subfunction	Capability
IDENTIFY	ID.ID	ID.ID.A	Business Environment
		ID.ID.B	System Interactions
		ID.ID.C	Assets
PROTECT	PR.PF	PR.PF.A	Access Control
		PR.PF.B	Awareness and Training
		PR.PF.C	Incident Response
DETECT	DE.DE	DE.DE.A	Continuous Monitoring
		DE.DE.B	Incident Detection
		DE.DE.C	Alert Analysis
RESPOND	RS.RS	RS.RS.A	Incident Response
		RS.RS.B	Recovery
		RS.RS.C	Post-Incident Activity
RECOVER	RC.RC	RC.RC.A	Recovery Planning
		RC.RC.B	Recovery Operations
		RC.RC.C	Recovery Testing

NIST Special Publication 800-66 Rev. 1
 National Institute of Standards and Technology
 U.S. Department of Commerce

An Introductory Resource Guide for Implementing the Health Insurance Portability and Accountability Act (HIPAA) Security Rule

Matthew Schiff, Kevin Smith, Jane Heath, Pauline Brown, David Johnson, Carla Emery Smith, and David L. Mandelberg

INFORMATION SECURITY

October 2009

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- Providing that each organization is selecting methods and controls that identify, assess, and appropriately protect its data that are the most appropriate for the size and nature of the entity;
- Addressing the development of compliance strategies that are in concert with the size and nature of the entity;
- Providing guidance on best practices for developing and implementing a Risk Management Program; and
- Creating appropriate documentation for demonstrating effective compliance with the HIPAA Security Rule.

Section Number	Page
Introduction	iv
1.1	1
1.2	1
1.3	1
1.4	1
1.5	1
1.6	1
1.7	1
1.8	1
1.9	1
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HIPAA Security Rule Toolkit

The **2013 HIEAA Security Rule Toolkit Application** is intended to help organizations better understand the requirements of the **HIEAA Security Rule**, implement those requirements, and assess their implementation in their operational environment. Target users include, but are not limited to, **HIEAA covered entities, business associates, and other organizations** such as those providing **HIEAA Security Rule** implementation, assessment, and compliance services. Target use cases include the ability to use these requirements to help plan and test information technology (IT) systems to meet health care providers with limited access to IT systems.

The **2013 HIEAA Security Rule Toolkit User Guide** explains how to use the toolkit.

The **2013 HIEAA Security Rule Toolkit** address how to install the toolkit for each supported operating system.

Toolkit modules for Windows, Red Hat Enterprise Linux, and MAC OS operating systems can be found below.

Questions about the **2013 HIEAA Security Rule Toolkit** can be submitted to hipaa@hhs.gov.



Templates

Enterprise: For large organizations; 809 Questions

Standard: For smaller organizations; 492 Questions



A Tour of Tools and Resources for HIPAA Security Management

HealthIT.gov Dashboard

Path: HealthIT.gov Home (HealthIT.gov) > For Providers & Professionals > Privacy and Security [A little difficult to navigate to find all the nuggets]

- The National Learning Consortium (NLC)
- HIPAA specific resources:
 - Guide to Privacy and Security of Electronic Health Information
 - Information Security Policy Template
 - Mobile Device Privacy and Security Resources
 - Security Risk Assessment Resources
 - SRA Tool (downloadable application or standalone documents)
 - Video
- Privacy & Security Training Games
 - Cybersecure: Your Medical Practice
 - Cybersecure: Contingency Planning

ISSA 46

Health Information Privacy, Security, and Your EHR

If your patients opt into Electronic Health Records (EHR) and Health Information Exchange (HIE), being that the confidentiality and accuracy of their electronic health information is at risk, they may want to discuss their information with you, discussing their health information could have life-changing consequences. To help you provide proper health information to your patients, we have developed a series of resources, including a guide, a checklist, and a video, to help you understand how to protect your patients' health information in your EHR system.

Your patients' and your EHR system's responsibility for taking the steps needed to protect the confidentiality, integrity, and availability of health information in your EHR system.

Cybersecure: Your Medical Practice

[View the Guide](#)

Guide to Privacy and Security of Electronic Health Information

Version 1.0
April 2013

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Pubg HealthIT.gov

Privacy & Security

Your Mobile Device and Health Information Privacy and Security



Physicians, health care providers and other health care professionals are using mobile devices, such as cell phones, tablets and other mobile devices, to access health information. This is a growing trend. The Health Information Privacy and Security Act (HIPAA) requires that health care providers take steps to protect and secure health information accessed by any mobile device.



Read and Learn

- How Can You Protect and Secure Health Information When Using a Mobile Device?
- How Can You Protect and Secure Health Information When Using a Mobile Device?
- How Can You Protect and Secure Health Information When Using a Mobile Device?
- How Can You Protect and Secure Health Information When Using a Mobile Device?
- How Can You Protect and Secure Health Information When Using a Mobile Device?

Watch and Learn

- How Can You Protect and Secure Health Information When Using a Mobile Device?
- How Can You Protect and Secure Health Information When Using a Mobile Device?
- How Can You Protect and Secure Health Information When Using a Mobile Device?
- How Can You Protect and Secure Health Information When Using a Mobile Device?
- How Can You Protect and Secure Health Information When Using a Mobile Device?

Security Risk Assessment

Security Risk Assessment Tool

What is the Security Risk Assessment Tool (SRATool)?

The Office of the Assistant Secretary for Health Information Technology (ASHT) recognizes the importance of risk assessment as a key component of a health information security program. The SRATool is a web-based application that helps health care organizations assess their information security risks. The SRATool is a web-based application that helps health care organizations assess their information security risks. The SRATool is a web-based application that helps health care organizations assess their information security risks.

Key Features:

- Web-based application
- Comprehensive risk assessment
- Customizable risk assessment
- Reporting and analysis

SRATool (Windows version)

SRATool (iPad version)

Security Risk Assessment Tool

Current User: None | Logout | www.chefhiit.gov

Home	About This Program	Business Accounts	Help
Home	Home	Home	Home

Security Risk Assessments

The SRATool Security Risk Assessment requires creating entities to conduct a risk assessment to identify risks and vulnerabilities to electronic protected health information (ePHI). Risk assessment is the first step in an organization's security risk compliance efforts. Following SRATool risk assessment guidelines will help you establish the safeguards you need to implement based on the unique circumstances of your health care practice. Risk assessment is an ongoing process that should provide your health care practice with a detailed understanding of the risks to the confidentiality, integrity, and availability of ePHI. The SRATool requires that covered entities implement policies and procedures to prevent, detect, contain, and correct security violations by conducting an accurate and thorough assessment of the potential risks and vulnerabilities to the confidentiality, integrity, and availability of ePHI data by the organization. Performing a security risk assessment and mitigating the findings is also a requirement for providers adhering to "reasonable care" under the CDS 4041 technical program. Providers should develop a risk assessment that addresses these criteria by evaluating the impact and likelihood of potential breaches, implementing security features, categorizing security features, and maintaining security protection.

Security Risk Assessment Tool

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You can document your answers, comments, and risk remediation plans directly into the SRAT Tool. The tool serves as your local repository for the information and does not send your data anywhere else.

Completing a risk assessment requires a time investment. At any time during the risk assessment process, you can pause to view your current results. The results are available in a color-coded graphic view (Windows version only) or in portable PDF and Excel formats.

For details on how to use the tool, download the [SRAT Tool User Guide \(PDF - 4 MB\)](#).

A paper-based version of the tool is also available:

- Administrative Self-audits (DOCS - 290 KB)
- Technical Self-audits (DOCS - 249 KB)
- Physical Self-audits (DOCS - 228 KB)

[Download Guide](#)

Privacy & Security Training Games

The Office of the National Coordinator for Health Information Technology's (ONC) Office of the Chief Privacy Officer (OCPO) has released its first and second web-based security training games, Cybersecure: Your Medical Practice. Play the game now.

Take the Contingency Planning Challenge



Take the Privacy & Security Challenge



A Tour of Tools and Resources for HIPAA Security Management

Google - Vendor Security Assessment Questionnaires (VSAQ)

Path: <https://vsaq-demo.withgoogle.com/>

- A Web-based application released under an open-source license on GitHub.
- Assesses the security practices of suppliers (e.g., Business Associates), or to review and improve the organization's own security programs.
- A collection of four questionnaires that Google uses to review multiple aspects of a vendor's security:
 - Web application security
 - Infrastructure security
 - Physical and data center security
 - An organization's overall security and privacy program.
- Not HIPAA Specific



VSAQ Vendor Security Assessment Questionnaires

VSAQ - Vendor Security Assessment Questionnaires

- Web Application Security Questionnaire
- Security & Privacy Program Questionnaire
- Infrastructure Security Questionnaire
- Physical & Datacenter Security Questionnaire



Private Frameworks and Certifications

Name	Non-Profit	Organizational Certification	Focus	No. of Controls/ "Domains"	Audited	Comments
HITRUST Alliance	Yes/No	CSF (previously called Common Security Framework)	Information Systems Security & Privacy (HIPAA focused)	149/14	Audited by HITRUST approved 3rd Party CSF Assessors	Published "Healthcare Sector Cybersecurity Implementation Guide" Third Party Assurance Program
International Organization for Standardization (ISO)	Yes - member organization funded	ISO/IEC 27001:2013	Information Security Management System (ISMS) program	114/14	Audited by approved 3rd Party	Internationally Recognized Standard



Value of Frameworks and Certifications

- Framework:**
 - Provides Structure
 - Is a "Best Practice" for mature Information Systems Security Programs
 - Demonstrates "Due Care" and "Due Diligence"
 - A common language and format for information exchange between organizations.
- Organization Certification:**
 - Tied to a specific Framework
 - Audit verification by external parties
 - Provides confidence
 - Some healthcare insurance payors are beginning to require certification of their Business Associates.





Webinar Summary

- ❑ Information Systems security is an on-going process that should be deliberately engrained in the organizational culture.
- ❑ HIPAA Security is complex and depends highly on the size, complexity, and capabilities of the organization; emphasis is on the application of “reasonable and appropriate” safeguards.
- ❑ There are many existing documents and tools that can help an organization build or streamline a mature HIPAA compliant security program.
- ❑ “Best Practice” is to build and maintain a security program based on a credible Framework.
- ❑ Security Risk Analysis is **required** – use a credible tool.
- ❑ There may be value (or even the emerging contractual requirement) for organizations to achieve an audited certification from a credible entity.



Thank you for joining us today!
QUESTIONS?

Appendix A Resource Links

Resource	Link
HIPAA Security Rule Matrix	http://www.eftf.gov/cgi-bin/online/csp?ip=L&SID=99805989307853790834280675&ty=HTML&L=L&no=sm&R=PART1&ip45.1.164
HHS-HIPAA for Professionals	http://www.hhs.gov/hipaa-for-professionals/index.html
NIST: Information Technology Portal	http://www.nist.gov/information-technology-portal.cfm
NIST: Managing Information Security Risk	http://nsc.nist.gov/publications/nispubs/800-39/SP800-39-final.pdf
NIST: Cybersecurity Framework (CSF) – Home Page	http://www.nist.gov/cyberframework/index.cfm
NIST: CSF Document (pdf)	http://www.nist.gov/sites/default/files/nist%20CSF%20v1.0/hipaa%20security%20rule%20crosswalk%2002-22-2016%20final.pdf
NIST: CSF and HIPAA Security Crosswalk	http://nsc.nist.gov/publications/nispubs/800-66-Rev1/SP-800-66-Revision1.pdf
NIST: An Introductory Resource Guide for Implementing the HIPAA Security Rule	http://www.nist.gov/publications/nispubs/800-66-Rev1/SP-800-66-Revision1.pdf

Resource	Link
NIST: HIPAA Security Rule Toolkit	http://scap.nist.gov/hipaa/
HealthIT gov: Providers and Professionals	https://www.healthit.gov/providers-professionals
HealthIT gov: Guide to Privacy and Security of Electronic Health Information	https://www.healthit.gov/sites/default/files/pdf/privacy-and-security_guide.pdf
HealthIT gov: Information Security Policy Template	https://www.healthit.gov/wds/389
HealthIT gov: Mobile Device Privacy and Security Resources	https://www.healthit.gov/providers-professionals/your-mobile-device-and-health-information-privacy-and-security
HealthIT gov: Security Risk Assessment Tool	https://www.healthit.gov/providers-professionals/security-risk-assessment-tool

Resource	Link
Google: Vendor Security Assessment Questionnaires	https://www.google.com/docs/datasheets/vendor-security-assessment-questionnaires
HITRUST Alliance – CSF	https://hitrustalliance.net/hitrust-csf/
HITRUST Alliance – Healthcare Sector CSF Implementation Guide	https://hitrustalliance.net/documents/cybersecurity/HITRUST_Healthcare_Sector_Cybersecurity_Framework_Implementation_Guide.pdf
ISO/IEC 27001 – Information security management	http://www.iso.org/iso/home/standards/management-standards/iec27001.htm