



A FEW THINGS FIRST

This presentation is for information only. Evaluate risks before acting based on ideas from this presentation.

This presentation contains opinions of the presenters.

Opinions may not reflect the opinions of Tandem.

This presentation is proprietary.

Unauthorized release of this information is prohibited. Original material is copyright © 2022 Tandem.





Christopher Hidalgo

ITIL-F, Audit and Security Consultant





What do you mean by "lazy auditor's guide"?





What do you mean by "resourceful auditor's guide"?



5

This Guide is for...

HERE'S THE PLAN

- Security Practitioners new to Financial Institutions
- · Governance, Risk, and Compliance (GRC) Analysts
- · CIOs and CTOs that assume the ISO role
- · The Compliance Officer with too many hats



Agenda

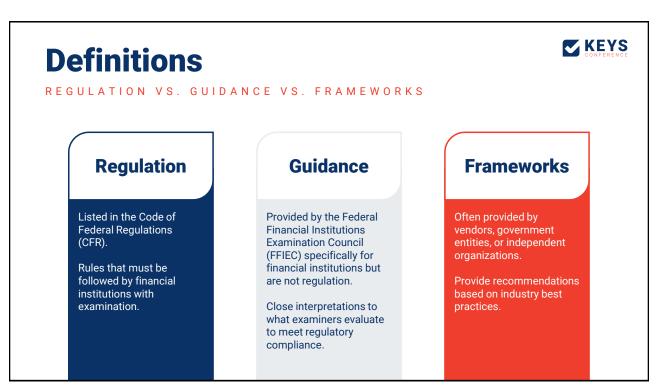
HERE'S THE PLAN

- Regulation vs. Guidance vs. Frameworks
- The FFIEC Approach
- The NIST Approach
- The Community Approach
- Recap



Regulation vs. Guidance vs. Frameworks

THE LAZY AUDITOR'S GUIDE TO REGULATION



The CFR Interagency Guidelines Simplified

REGULATION VS. GUIDANCE VS. FRAMEWORKS

- 1. A written information security program/strategy
- 2. Risk assessment and management
- Access controls for customer information systems
- 4. Physical access control for areas containing customer information
- 5. Encryption of customer information either stored or transmitted electronically

- 6. Change-control procedures
- Dual control procedures, segregation of duties, and employee background checks
- Security monitoring systems to detect unauthorized access to customer information
- Incident-response program to address security incidents effectively
- 10. Methods to provide protection from physical destruction of customer information

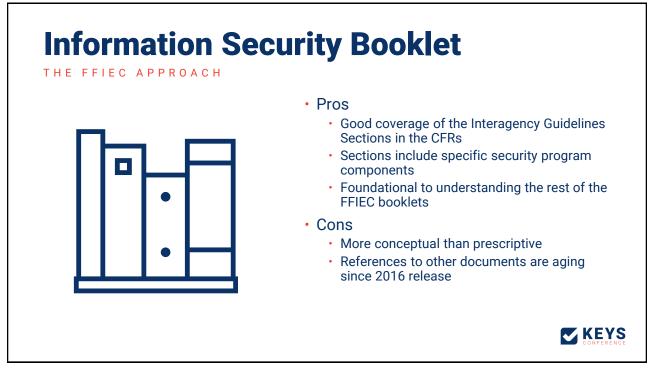
Kegerreis, Davis, Schiller, and Wrozek (2020). IT Auditing: using controls to protect information assets (Third edition)

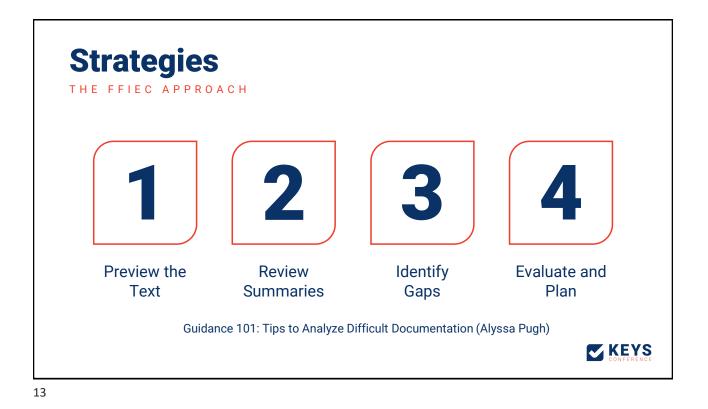


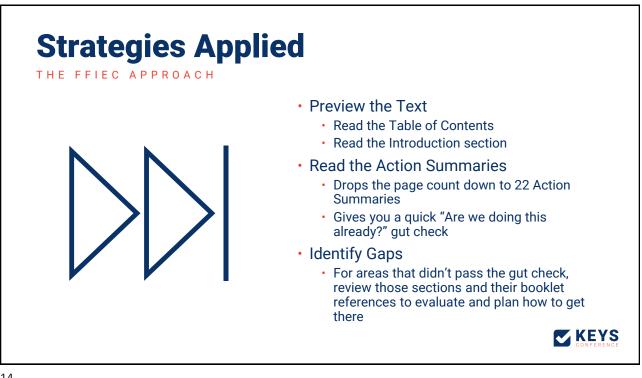
KEYS

The FFIEC Approach

THE LAZY AUDITOR'S GUIDE TO REGULATION

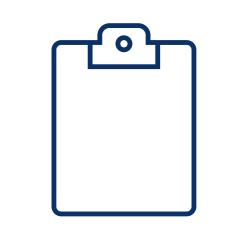






The Cybersecurity Assessment Tool

THE FFIEC APPROACH



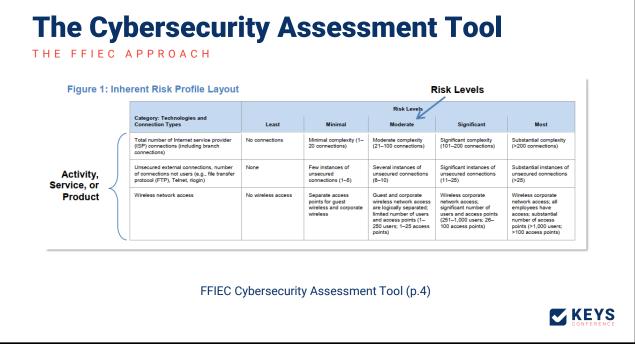
Pros

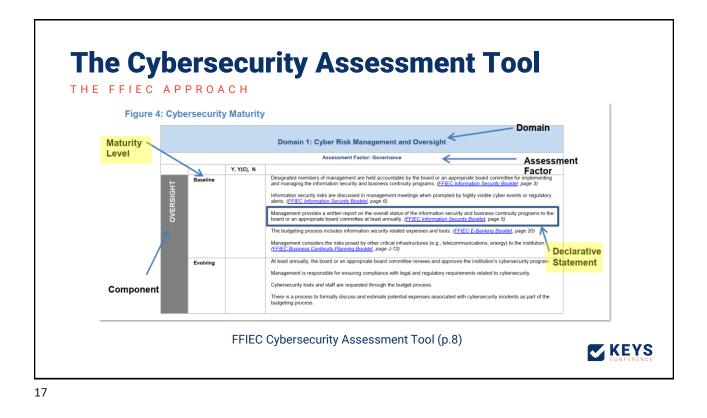
- Coverage spans the FFIEC booklets
- Controls pull from the action summary areas with prescriptive tools
- Questionnaire format gives you a measurable gap analysis for your information security program
- Built to convey results and status updates to executives

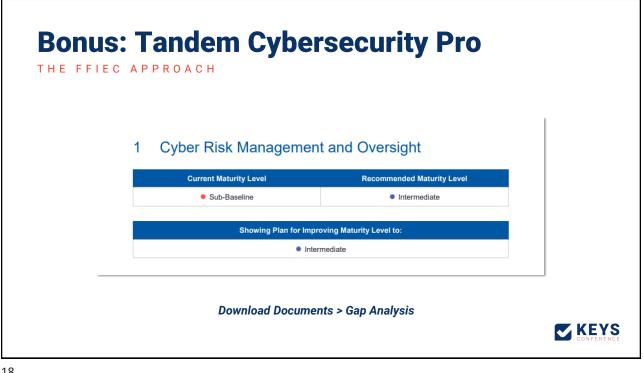
Cons

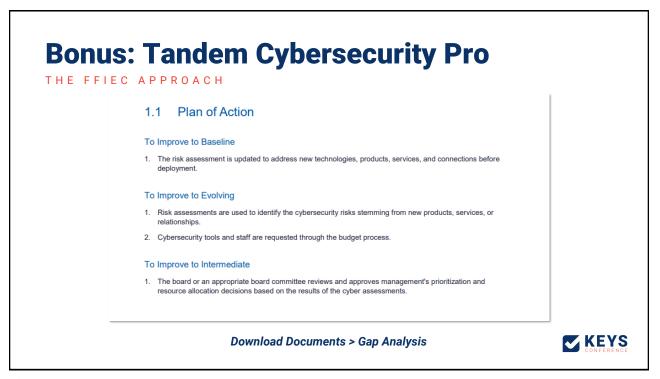
 Like the Information Security booklet, references to other documents have been superseded by new booklets

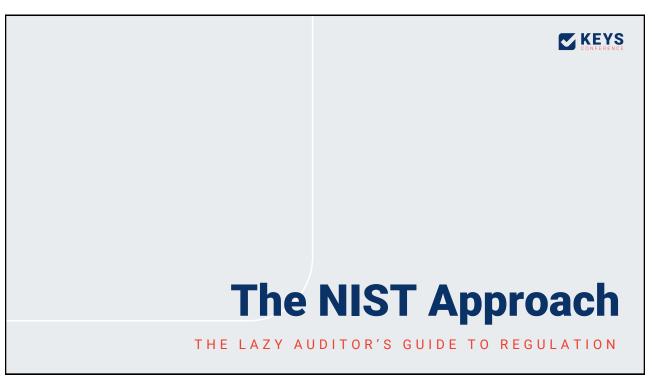






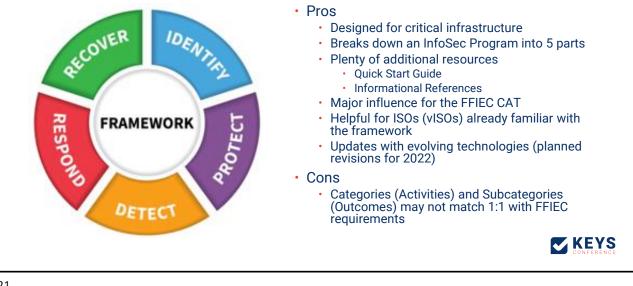


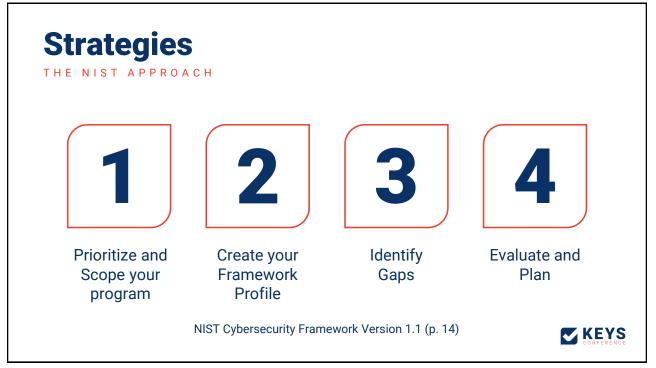


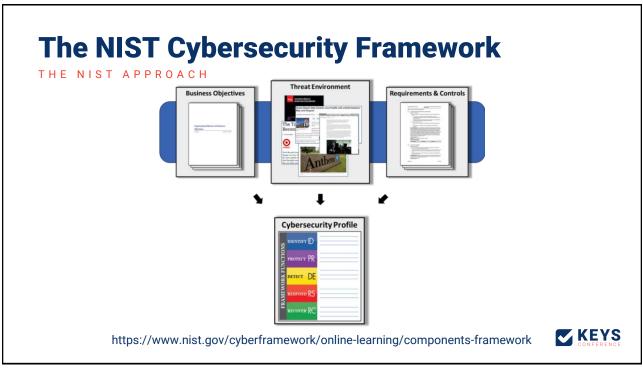


The NIST Cybersecurity Framework

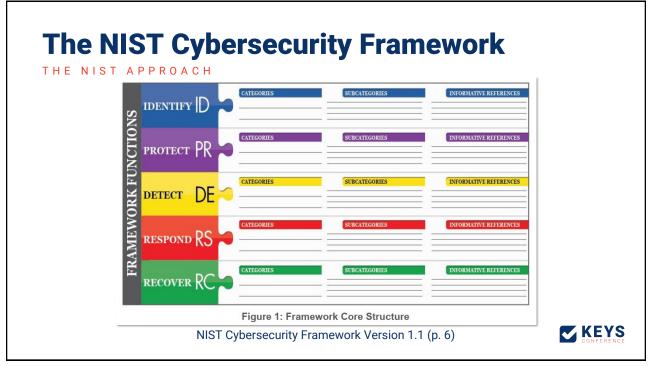
THE NIST APPROACH

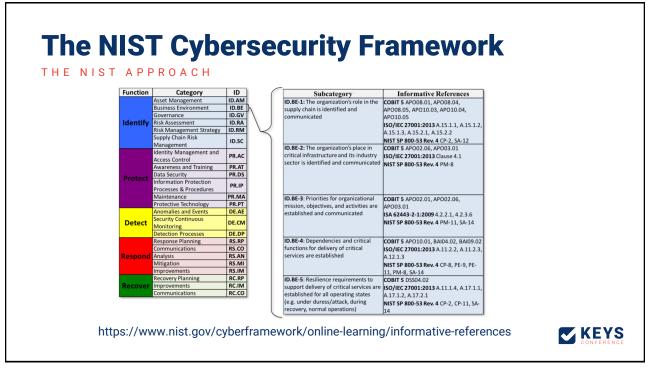








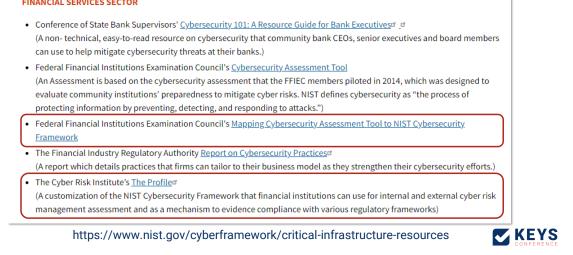




The NIST Cybersecurity Framework

THE NIST APPROACH

FINANCIAL SERVICES SECTOR



KEYS

FFIEC CAT to NIST CSF Mapping

THE NIST APPROACH

NIST Cybersecurity Framework	FFIEC Cybersecurity Assessment Tool
Risk management practices are approved by management but may not be established as organizational-wide policy. (p. 10)	D1.RM.RMP.B.1: An information security and business continuity risk management function(s) exists within the institution.
Prioritization of cybersecurity activities is directly informed by organizational risk objectives, the threat environment, or business/mission requirements. (p. 10)	D2.TI.Th.B.3: Threat information is used to enhance internal risk management and controls. D1.G.OV.Int.5: The board or an appropriate board committee ensures management's annual cybersecurity self-assessment evaluates the institution's ability to meet its cyber risk management standards. D1.G.SP.Int.2: Management periodically reviews the cybersecurity strategy to address evolving cyber threats and changes to the institution's inherent risk profile.
There is an awareness of cybersecurity risk at the organizational level but an organization-wide approach to managing cybersecurity risk has not been established. (p. 10)	D1.G.OV.B.2: Information security risks are discussed i management meetings when prompted by highly visible cyber events or regulatory aider. D1.TC.Tr.B.1: Annual information security training is provided. D1.TC.Tr.E.2: Management is provided cybersecurity training relevant to their job responsibilities.
Risk-informed, management-approved processes and procedures are defined and implemented, and staff has adequate resources to perform their cybersecurity duties. (p. 10) D1.RS.LE.3: Staff with cybersecurity respor have the requisite qualifications to perform increases values of the costion.	

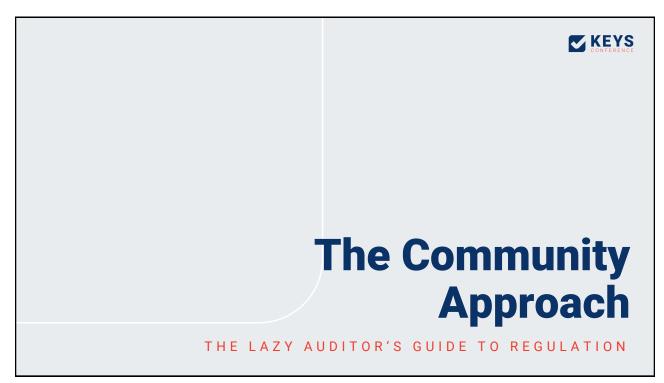
FFIEC CAT, Appendix B

27

FFIEC CAT to NIST CSF Mapping

Appendix A: Framework Core		
NIST Cybersecurity Framework	FFIEC Cybersecurity Assessment Tool	
ID.AM-1: Physical devices and systems within the organization are inventoried. (p. 20)	D1.G.IT.B.1: An inventory of organizational assets (e.g., hardware, software, data, and systems hosted externally) is maintained.	
ID.AM-2: Software platforms and applications within the organization are inventoried. (p. 20)	D1.G.IT.B.1: An inventory of organizational assets (e.g., hardware, software, data, and systems hosted externally) is maintained.	
ID.AM-3: The organizational communication and data flow is mapped. (p. 20)	D4.C.Co.B.4: Data flow diagrams are in place and document information flow to external parties.	
nor a nappos. (p. 20)	D4.C.Co.Int.1: A validated asset inventory is used to create comprehensive diagrams depicting data repositories, data flow, infrastructure, and connectivity.	
ID.AM-4: External information systems are mapped and catalogued. (p. 20)	D4.RM.Dd.B.2: A list of third-party service providers is maintained.	
	D4.C.Co.B.3: A network diagram is in place and identifies all external connections.	
ID.AM-5: Resources are prioritized based on the classification / criticality / business value of hardware, devices, data, and software. (p. 20)	D1.G.IT.B.2: Institution assets (e.g., hardware, systems, data, and applications) are prioritized for protection based on the data classification and business value.	
ID.AM-6: Workforce roles and responsibilities for business functions, including cybersecurity, are	D1.R.St.B.1: Information security roles and responsibilities have been identified.	
established. (p. 20)	D1.TC.Cu.B.1: Management holds employees accountable for complying with the information security program.	
ID.BE-1: The organization's role in the supply chain is identified and communicated. (p. 21)	D1.G.SP.A.3: The cybersecurity strategy identifies and communicates the institution's role as a component of critical infrastructure in the financial services industry.	

Bonus: NIST to Tandem Mapping THE NIST APPROACH NIST Category Tandem References Business Continuity Plan (Systems/Equipment) Policies ID.AM-1: Physical devices and systems within the Asset Management organization are inventoried Network Diagrams ID.AM-2: Software platforms and applications within Business Continuity Plan (Software) the organization are inventoried Asset Management Policy Identify Network Diagrams Policy Asset Management (ID.AM): The data, personnel, devices, systems, and facilities that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to ID.AM-3: Organizational communication and data flows are mapped Information Security Risk Assessment (Data Flow) Business Continuity Plan (Systems/Equipment) Policies ID.AM-4: External information systems are business objectives and the organization's risk catalogued Asset Management Network Diagrams ID.AM-5: Resources (e.g., hardware, devices, data, and software) are prioritized based on their classification, criticality, and business value Business Continuity Plan (Systems/Equipment) ID.AM-6: Cybersecurity roles and responsibilities for the entire workforce and third-party stakeholders (e.g., suppliers, customers, partners) are established Policies (Policy Responsibility by Position Report) ID.BE-1: The organization's role in the supply chain is identified and communicated Identify N/A Business Environment (ID.BE): The Business Environmen (uosse): ... organization's mission, objectives, stakeholdes, and activities are understood and infrastructure and its industry sector is identified and communicated Business Continuity Plan Risk Assessment Considering Critical Infrastructure Knowledge Base Article KEYS Support Dashboard > Resources



Cyber Risk Institute's The Profile

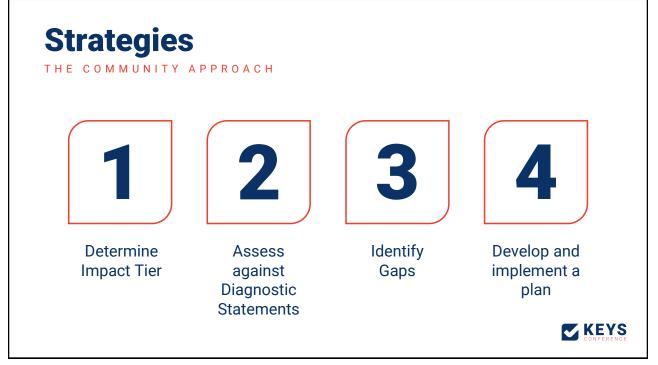
THE COMMUNITY APPROACH



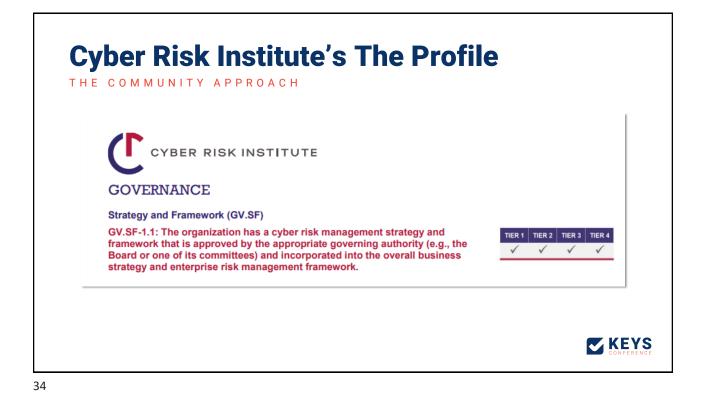
Pros

- Custom version of the NIST CSF designed for financial institutions
- Familiar NIST Functions along with Governance and Supply/Dependency Management
- Questionnaire format gives you a measurable gap analysis for your information security program
- Includes references that span across FFIEC Booklets, CAT, and NIST CSF
- Cons
 - Still very new since release in 2018 by the FSSCC to being maintained by the Cyber Risk Institute (CRI) as of 2020.





E COMMUNITY /	Institute's The Profile
various Financia designations thr systemic import	verview: North American governments (the United States, in particular ["USG"]) have designated Il Services Sector institutions as critical and systemically important by way of several different rough various different regulators and regulatory bodies. These designations imply a high level of tance and therefore result in the alignment of designated institutions to the highest impact tier: /Super-National Impact. Check the Box(es) that apply: Is your institution designated as systemically important to the
Question 111	



Cyber Risk Institute's The Profile

THE COMMUNITY APPROACH

Response Guidance

The organization's cyber risk management strategy and framework should be a prominent part of all business strategies, practices, policies, and procedures. The cyber risk management strategy should align with long-term business strategies and the technologies to support these strategies. Management can support an enterprise information security program and enterprise risk management framework by setting a strong security culture that begins with Board involvement and ongoing cybersecurity awareness training that is expected at all levels of management and staff.

Include information about the organization's cyber risk management strategy and framework. Document the approval of the strategy and framework by the Board (or one of its committees) and outline how the strategy/framework incorporates business strategy and links to the enterprise risk management framework. For example, the cyber risk management framework may be part of the organization's overall enterprise risk management framework. Describe how that framework is established and executed for cyber risk management.



35

Cyber Risk Institute's The Profile

THE COMMUNITY APPROACH

Examples of Effective Evidence

- Cyber risk management strategy and framework, including evidence of approval by the Board (or one of its committees) or other appropriate governing authority
- · Enterprise risk management frameworks based on a recognized standard-setting authority framework
- Policies, standards, procedures, and guidelines specific to cyber risk management
- · Organizational chart to demonstrate functional roles, responsibilities, and independence
- Relevant Board and committee (e.g., cyber risk strategy committee, steering committee, etc.) meeting
 minutes and approvals where cyber risk management strategy is discussed

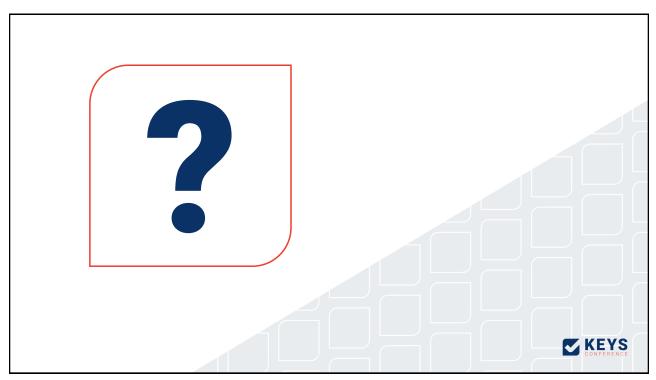


Recap

THE LAZY AUDITOR'S GUIDE TO REGULATION

- Regulation vs. Guidance vs. Frameworks
- The FFIEC Approach
- The NIST Approach
- The Community Approach

KEYS CONFERENCE





DON'T FORGET!

Fill out the survey to get your sticker!



KEYS CONFERENCE

THANKS FOR JOINING!

The Lazy Auditor's Guide to Regulation

Christopher Hidalgo

ITIL-F, Audit and Security Consultant

TANDEM

Testing, B-C-P

Savannah Richardson, Tandem

RISK & COMPLIANCE

Problem Solving vs. Problem Finding: Responding to IT/GLBA Exam and Audit Findings

Joseph Ellis, CoNetrix Security

Slide References

THE LAZY AUDITOR'S GUIDE TO REGULATION

- Kegerreis, Davis, Schiller, and Wrozek (2020). IT Auditing: using controls to protect information assets (Third edition)
- Guidance 101: Tips to Analyze Difficult Documentation (Alyssa Pugh). <u>https://secure.tandem.app/Videos/Index</u>
- Implementing the NIST Cybersecurity Framework (Udemy Course) by Jason Dion and Kip Boyle (Mentioned on slide 21)
- <u>https://www.nist.gov/cyberframework/online-learning/components-framework</u> (slide 23)
- <u>https://www.nist.gov/cyberframework/online-learning/informative-references</u>
- <u>https://www.nist.gov/cyberframework/critical-infrastructure-resources</u>
- · Cyber Risk Institute's The Profile https://cyberriskinstitute.org/the-profile/



KEYS