

Course Self- Directed Exercise Compilation Document

Episode 1.3: NIST Publications

Challenge:

- 1. What value does/can NIST publications provide to you as an auditor?
- 2. What value does/can the NIST CSF provide to you as an auditor?
- 3. What value does/can the NIST RMF provide to you as an auditor?

Episode 1.6: The Toolkit

Assembling your Case Study Toolkit

What will you need?

• NIST SP 800-37R2



- NIST CSF:
- CSF Framework PDF & CSF Core Excel
- CIS Controls
- PCL DSS

Episode 2.1: Table Me

- Review Table 2 (Identify Function &
 Categories, pp. 24-29) and use the
 information to consider the following
 questions:
- 1. Which of these categories are you most familiar with?
- 2. Which of these subcategories are you most familiar with?



- 3. Which of the informative references are you most familiar with?
- 4. Which of these categories do you find most challenging when performing an audit?
 Why?
- 5. Which of these subcategories is most difficult for you to use during an audit when working with clients?

Episode 2.2: NMAP

- 1. Learn about/try Nmap
- 2. Load and examine a sample inventory file
- What machines did you find?

What software/applications were



inventoried?

- Optional: Establish your own inventory using NMAP – scan a friendly network (with permission):
- Hardware (computers and IoT)
- Software (aps)
- Data

Episode 2.3: Create a BIA

- Complete the BIA templates (Excel
 - worksheet and/or Word document):
- a. Timing
- b. Duration
- c. Operational Imapct



d. Financial Impact

You can use the inventory list from your NMAP exercise (sample file or real inventory), or you can simply make up the information to populate the BIA template.

Episode 3.2: Security Awareness

- How does your organization provide security awareness training (the modalities)?
- When does your organization provide security awareness training (the frequency)?



- What do you remember from it?
- On a scale of 1 10, 1 being the lowest/least effective & 10 being the highest/most effective, how would you rate the training?

Episode 3.3: Access Control

- How do you ensure user access and authorization levels are appropriate when auditing a client?
- What about administrator (root) authority to access?
- Network
- Servers



PCs/end-points

Episode 3.6: Access Control

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Episode 5.1: Incident Report

Think about clients you have audited over the last year to answer the following questions:

- How many of them had a global
 pandemic response plan before the
 outbreak of COVID-19 at the end of
 2019, beginning of 2020?
- How many of them have a global pandemic response plan as a result of

COVID-19?



- Does your company have adequate incident response planning in place for non-I.T.-related incidents?
- What would you recommend to a client concerned about incident response planning and how to undertake it?
- Do you have a set of tools to help facilitate a conversation with a client about incident response planning?

Episode 5.2: Digital Forensics

Think about clients you have audited over the last three years to answer the following questions:



- How many of them had an incident that required a digital forensics response component?
- How many of them had a digital forensics response capability internally as part of a Computer
 Security Incident Response Team (CSIRT)?
- What would you recommend to a client concerned about digital forensics response and how to undertake it?



Do you have a set of tools to help
 facilitate a conversation with a client
 about digital forensics response
 planning?

Episode 6.1: Business Continuity

Think about clients you have audited over the last three years to answer the following questions:

How many of them had a Business
 Continuity Plan (BCP) before the
 outbreak of COVID-19 at the end of
 2019, beginning of 2020?



- How many of them have a BCP as a result of COVID-19?
- Does your company have an adequate BCP in place?
- What would you recommend to a client concerned about business continuity planning and how to undertake it?
- Do you have a set of tools to help facilitate a conversation with a client about business continuity planning?



Episode 7.3: A Tale of Two Lists

Create two lists based on your current organization:

Organization Level Tasks:

- Your organization's roles and responsibilities for managing security and privacy risks. Is it a team or an individual?
- The control framework(s) your
 organization needs to follow.
 (Regulatory requirements or industry standards)



 How does your organization identify, analyze and manage risks.

System-Level Tasks:

- System function & stakeholders. What is the system? Where is it located? Who are its owners, operators, or other stakeholders?
- Specific assets The specific
 computers, devices, applications, or
 technologies. Include as much
 information as you can (the
 manufacturer, make, model, and
 version number)



• Type of information stored, processed,	
or transmitte	d by the system. Focus on
the most sensitive data that could	
harm the orga	anization if there is
unauthorized	disclosure or
modification.	