Andrew Hettick What I Learned in My First Year as an ISO

1

Cybersecurity

Disclaimer 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 © 2023 Tandem.



Andrew Hettick

CISA, CISSP, SSCP Information Security Officer



3

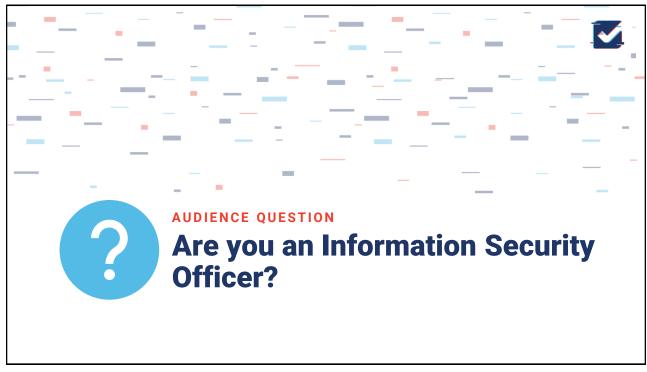
Agenda

Here's the Plan

- My journey to ISO
- Know your role
- Make a plan
- · Make impactful changes
- Learn from mistakes







My Journey to ISO

- · Started as an IT Auditor for CoNetrix Security
- · Russ sets up a meeting with me

Meeting	
Organizer	O Russ Horn
Time	Monday, November 22, 2021 2:30 PM-3:00 PM



8

My (Unofficial) First Day as an ISO **Apache Log4j Vulnerability** http://logging.apache.org LOG4J Logging Services Last Published: 2023-02-17 | Version: 2.20.0 Logging Wiki 🗣 | Apache 🗣 | Logging Services | GitHub 🗣 Apache Log4j Security Vulnerabilities ♠ APACHE LOG4J™ 2 This page lists all the security vulnerabilities fixed in released versions of Apache Log4| 2. Each vulnerability is given a security impact rating by the Apache Logging security team . Note that this rating may vary from platform to platform. We also list the versions of Apache Log4| the flaw is known to affect, and where a flaw has not been verified list the version with a question mark. Log4j 1.x 🕲 has reached End of Life 🍨 in 2015 and is no longer supported. Vulnerabilities reported after August 2015 against Log4j 1.x were not checked and will not be fixed. Users should upgrade Maven, Ivy, Gradle Artifacts > to Log4j 2 to obtain security fixes. Binary patches are never provided. If you need to apply a source code patch, use the building instructions for the Apache Log4j version that you are using. For Log4j 2 these can be found in BULLDING.ad located in the root subdirectory of the source distribution. Release Notes FAQ public Log4j Users mailing list If you have encountered an unlisted security vulnerability or other unexpected behaviour that has security impact, or if the descriptions here are incomplete, please report them privately to the Log4 ecurity Team 🖭 Note that reports assuming attacker's access to the Log4j configuration will not qualify as a vulnerability. Thank you for your understanding and help Fixed in Log4j 2.17.1 (Java 8), 2.12.4 (Java 7) and 2.3.2 (Java 6) CVE-2021-44832 ♥: Apache Log4j2 vulnerable to RCE via JDBC Appender when attacker controls configuration.





Know Your Role

- Read important documents
- · Learn where important files are kept
 - Tandem
 - File share we have an "ISO" folder
- Do not make huge changes before understanding role



12

Know Your Role









II Risk Assessment

- Know which areas you are in charge of
 - For me: Information Security Program
- Know where these documents are stored
 - · Hopefully Tandem
- · Resources for learning about Tandem:
 - Videos
 - Knowledge Base
 - Contacting Tandem Support
- Identify critical applications



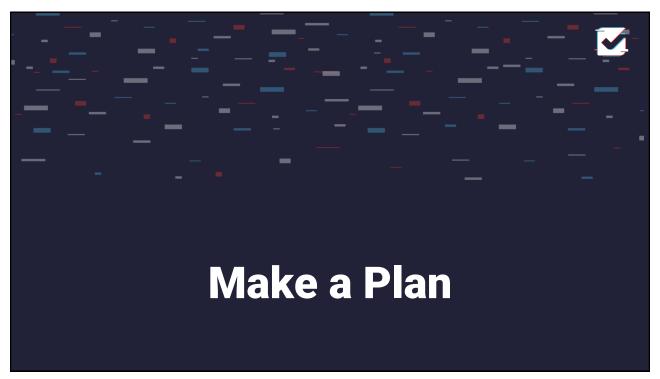
Know Your Role

Identify Critical Applications

- · Know which applications hold sensitive data
 - Tandem
 - Core
 - Wire/ACH
 - Internet banking
 - Mortgage software
- · Understand access to these applications
- How is access removed/managed?
- · Learn security settings in place









16

Make a Plan

List everything you do in your role

Task
IT Audit and Penetration Test
IT Exam
Business Continuity Plan Update
Policy Review/Updates
Tandem User Access Review
Risk Assessment Review/Updates
Info Sec Program Report to Board
New Vendor/Product Risk Assessments
Security Committee Meetings
Phishing Email Tests
Update Offboarding Checklist



- · List everything you do in your role
- Determine frequency for each item



18

Make a Plan

- List everything you do in your role
- Determine frequency for each item

Task	Frequency 🔽
IT Audit and Penetration Test	Annually
IT Exam	Annually
Business Continuity Plan Update	Annually
Policy Review/Updates	Annually
Tandem User Access Review	Annually
Risk Assessment Review/Updates	Annually
Info Sec Program Report to Board	Annually
New Vendor/Product Risk Assessments	As Needed
Security Committee Meetings	Monthly
Phishing Email Tests	Quarterly
Update Offboarding Checklist	Once



- List everything you do in your role
- Determine frequency for each item
- Schedule biggest areas first

Task	Frequency 🔽
IT Audit and Penetration Test	Annually
IT Exam	Annually
Business Continuity Plan Update	Annually
Policy Review/Updates	Annually
Tandem User Access Review	Annually
Risk Assessment Review/Updates	Annually
Info Sec Program Report to Board	Annually
New Vendor/Product Risk Assessments	As Needed
Security Committee Meetings	Monthly
Phishing Email Tests	Quarterly
Update Offboarding Checklist	Once



20

Make a Plan

- List everything you do in your role
- Determine frequency for each item
- Schedule biggest areas first

Task	Frequency 🔽	Month(s)
IT Audit and Penetration Test	Annually	July
IT Exam	Annually	March
Business Continuity Plan Update	Annually	
Policy Review/Updates	Annually	
Tandem User Access Review	Annually	
Risk Assessment Review/Updates	Annually	
Info Sec Program Report to Board	Annually	
New Vendor/Product Risk Assessments	As Needed	
Security Committee Meetings	Monthly	
Phishing Email Tests	Quarterly	
Update Offboarding Checklist	Once	

- List everything you do in your role
- Determine frequency for each item
- Schedule biggest areas first

Frequency 🔽	Month(s)
Annually	July
Annually	March
Annually	
Annually	
Annually	
Annually	
Annually	December
As Needed	
Monthly	
Quarterly	
Once	
	Annually Annually Annually Annually Annually Annually Annually Annually Annually As Needed Monthly Quarterly

22

Make a Plan

- List everything you do in your role
- Determine frequency for each item
- Schedule biggest areas first
- Plan flexible projects around these

Task	Frequency 🔽	Month(s)
IT Audit and Penetration Test	Annually	July
IT Exam	Annually	March
Business Continuity Plan Update	Annually	
Policy Review/Updates	Annually	
Tandem User Access Review	Annually	
Risk Assessment Review/Updates	Annually	
Info Sec Program Report to Board	Annually	December
New Vendor/Product Risk Assessments	As Needed	
Security Committee Meetings	Monthly	
Phishing Email Tests	Quarterly	
Update Offboarding Checklist	Once	

- List everything you do in your role
- Determine frequency for each item
- Schedule biggest areas first
- Plan flexible projects around these

Task ▼	Frequency 🔽	Month(s)
IT Audit and Penetration Test	Annually	July
IT Exam	Annually	March
Business Continuity Plan Update	Annually	May
Policy Review/Updates	Annually	January
Tandem User Access Review	Annually	
Risk Assessment Review/Updates	Annually	September
Info Sec Program Report to Board	Annually	December
New Vendor/Product Risk Assessments	As Needed	
Security Committee Meetings	Monthly	
Phishing Email Tests	Quarterly	
Update Offboarding Checklist	Once	

24

Make a Plan

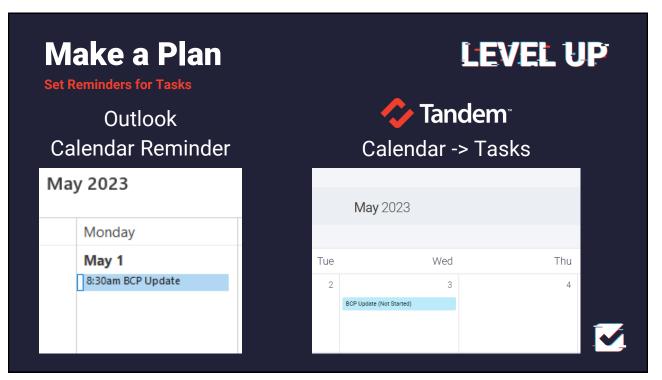
- List everything you do in your role
- Determine frequency for each item
- Schedule biggest areas first
- Plan flexible projects around these

Task ▼	Frequency 🔽	Month(s)
IT Audit and Penetration Test	Annually	July
IT Exam	Annually	March
Business Continuity Plan Update	Annually	May
Policy Review/Updates	Annually	January
Tandem User Access Review	Annually	June
Risk Assessment Review/Updates	Annually	September
Info Sec Program Report to Board	Annually	December
New Vendor/Product Risk Assessments	As Needed	As Needed
Security Committee Meetings	Monthly	All
Phishing Email Tests	Quarterly	Feb/May/Aug/Nov
Update Offboarding Checklist	Once	April

- List everything you do in your role
- Determine frequency for each item
- Schedule biggest areas first
- Plan flexible projects around these

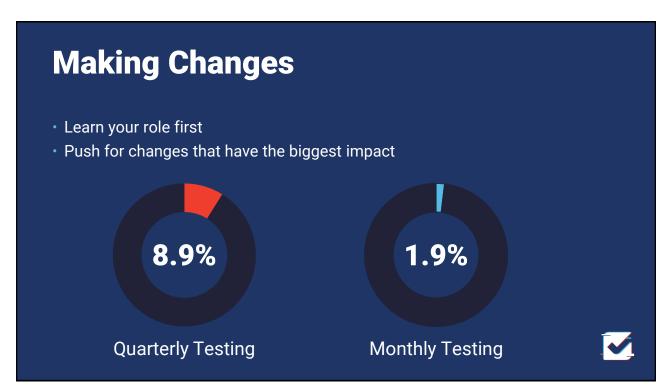
Task	Frequency 🔽	Month(s)
Policy Review/Updates	Annually	January
Phishing Email Tests	Quarterly	Feb/May/Aug/Nov
IT Exam	Annually	March
Update Offboarding Checklist	Once	April
Business Continuity Plan Update	Annually	May
Tandem User Access Review	Annually	June
IT Audit and Penetration Test	Annually	July
Risk Assessment Review/Updates	Annually	September
Info Sec Program Report to Board	Annually	December
Security Committee Meetings	Monthly	All
New Vendor/Product Risk Assessments	As Needed	As Needed

26









Making Changes

- · Learn your role first
- Push for changes that have the biggest impact
- · Choose your battles
- Use your experts
- Build relationships



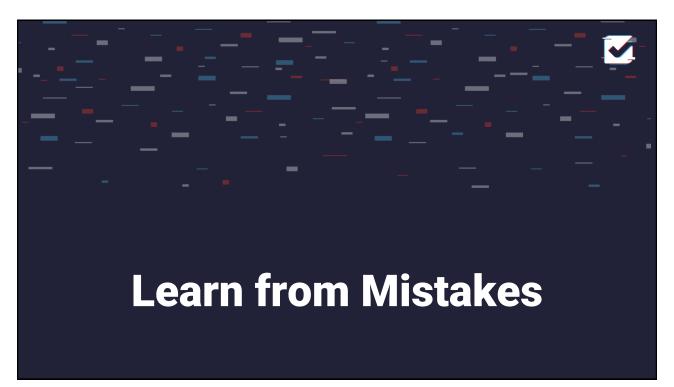
Making Changes

Build Relationships

- · Changes are more easily accepted
- You can ask better questions
- · Employees are more comfortable to approach you
- Take opportunities to broaden the scope of questions



32



Learn from Mistakes



- Taking on too much
- Not using your experts
- Manually repeating the same actions
 - Automate these
- Not enough training for new hires



34

Review

1

Know your role

2

Make a plan

3

Make impactful changes

4

Learn from mistakes



