Data Flavo Dia ava vancia a			
Data Flow Diagramming for those of us who thought we'd never need to!	_		
Dan Hadaway, CRISC	_		
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Housekeeping

I'm Michael Hartke

If you have questions

I will chat you links

Welcome

Drawing

- Winner gets a free SOC-2 Review (worth \$600!)
 - \$500 if you're an MSSP Client
- Must be present at end of webinar to win!
 - We will chat the winner, and if you want us to announce your name chat us back!
- We'll be using random.org for the drawing!



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Educational Series

• my.infotex.com/the-2016-it-governance-tour

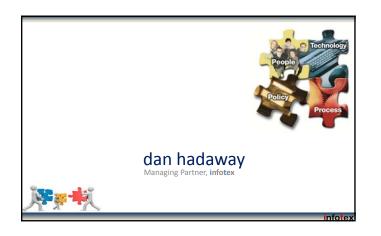


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Highlighted Webinar

- Simplifying the Incident Response
 - Put your management team in a position where when (and no longer if) the career threatening event occurs, they recognize the process as you unfold it.
 - April 12th Yes, we've been known to move these!
 - Free!





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Agenda

- Overview: What and Why? When?
- Who: If we have to, let's get some value!
- How
 - Expectations, Standards, Conventions
 - Tools, Resources, Starting Points
 - Five Question Process



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What is a data flow diagram?

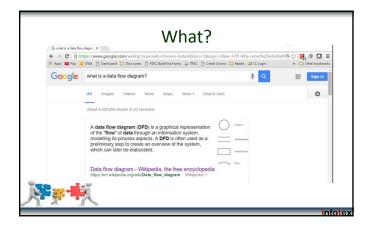


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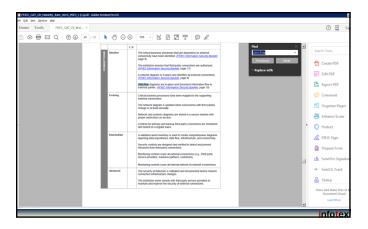
Typical Confusion. . .

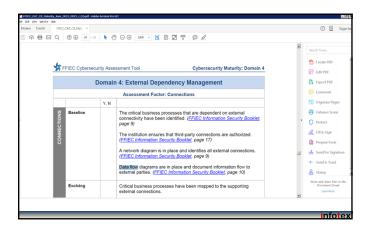
- System Diagrams (representing all assets in a system) are not necessarily Data Flow Diagrams
- Process Diagrams are not necessarily Data Flow Diagrams
- A network diagram COULD be a Data Flow Diagram but there are specific expectations and conventions.

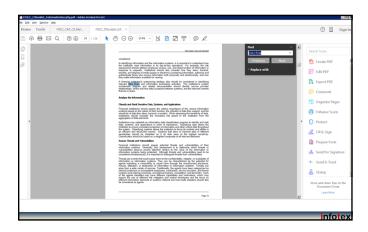


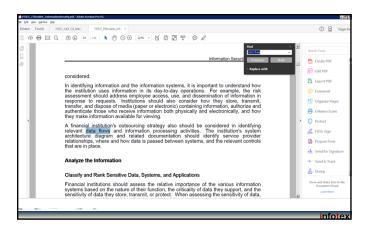


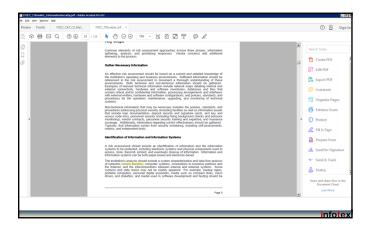
Why? Cybersecurity Assessment Tool "Nothing New" Seems to be true but auditors were "scaling this one down."











And yet

- We want to claim we're at baseline ...
- It takes maybe 15-20 minutes per diagram . . .
- We CAN gain value from the process!



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• If we use the diagramming process as an Awareness Training Process. Awareness in All Directions Vendors Technical User Customers



Why?

"To See is to Understand!"

- Leonardo da Vinci



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What we've noticed

- Not everybody IS on the same page about where data is and where it is going.
- The ISO is learning where data is going that the ISO was not aware.
- The technical team is learning about assets in processes they were not aware.



What we si	usp	ect
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- You will get more value out of the process SHOWING THE DIAGRAM than drawing it.
- Before showing the diagram to management, your team members may want to review it!



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When?

• Where are you in your five step process?



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Step 1: Read Overview for Chief Executive Officers and Boards of Directors to gain insights on the benefits to institutions of using the Assessment, the roles of the CEO and Board of Directors, a high-level explanation of the Assessment, and how to support implementation of the Assessment.

Step 2: Read the User's Guide to understand all of the different aspects of the Assessment, how the inherent risk profile and cybersecurity maturity relate, and the process for conducting the Assessment.

Step 3: Complete Part 1: Inherent Risk Profile of the Cybersecurity Assessment Tool to understand how each activity, service, and product contribute to the institution's inherent risk and determine the institution's overall inherent risk profile and whether a specific category poses additional risk.

Step 4: Complete Part 2: Cybersecurity Maturity of the Cybersecurity Assessment Tool to determine the institution's cybersecurity maturity levels across each of the five domains.

Step 5: Interpret and Analyze Assessment Results to understand whether the institution's inherent risk profile is appropriate in relation to its cybersecurity maturity and whether specific areas are not aligned. If management determines that the institution's maturity levels are not appropriate in relation to the inherent risk profile management should consider reducing inherent risk or developing a strategy to improve the maturity levels.



Summary

- A data flow diagram should show where data leaves your control into the "outsourcing realm."
- Work in iterations: Data Flow Diagramming should be seen as an awareness exercise to be conducted during mitigation of CAT identified cyber-risk.
- By seeing data flow, our new awareness motivates us to protect that data, and activates awareness.



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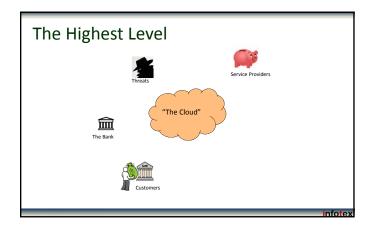
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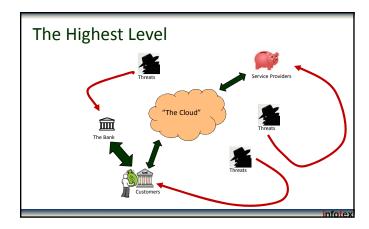
Not who, scale!

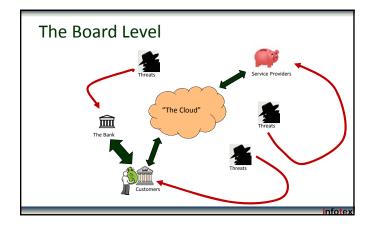


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1. First question: Who are the players.







Not who, what

- Network Diagram?
 - Network Team, Auditors, Examiners
- Loan Processing?
 - Loan processors, management, technical team.
- Microsoft Access Database?
 - Technical Team, Future Coders



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What to draw . . .

- What processes, assets, systems . . .
 - Send customer information out of our control?
 - Involve more than one third party?



What to draw?

- E-mail Systems (and IM, Secure Messaging, etc.)
- Internet Banking (Mobile, Billpay, P2P, etc.)
- New Accounts
- Loan Processing
 - Mortgage
 - Consumer
 - Commercial



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Which is Question #2

- 1. Who are the players?
- 2. What assets are involved?



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And brings us to . . .





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Expectations

- Establish them yourself!
- Starting Point on our Portal

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Expectations

- "As data flow drawings should be explained . . ."
- If your audience is technical, conventions become important (maybe)?
- Otherwise, be consistent and have fun!



Expectations

- Typical Audit Questions . . .
 - What did you diagram and why?
 - Did you establish expectations and did you enforce them?
 - Did the audience receive the drawings?
 - Were the drawings complete and accurate?
 - Can I find where data goes that is not on the drawing?



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Expectations

- Good Management Questions:
 - Was the awareness gained worth the time invested?
 - What are the takeaways?



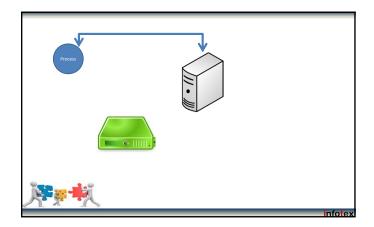
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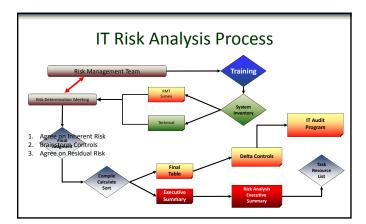
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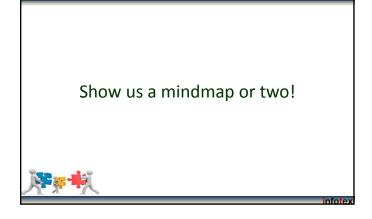
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Tools, Resources	
VisioMicrosoft Office	
 Total Recall (for mind maps) sketchboard.me	
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ШИС	
Show some Visia Stuff	
Show some Visio Stuff	
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Show some Office Stuff	
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Example of N	Aind Map
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Starting Points on sketchboard.me my.infotex.com/dfds



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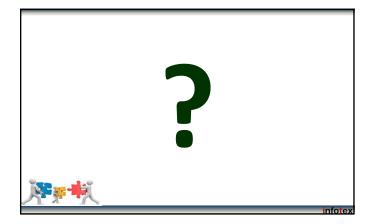


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- 1. Who are the players?
- 2. What assets are involved?
- 3. Where does the data come from?
- 4. Where does the data go?
- 5. When are we regrouping for the second iteration?



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