Council of the
INSPECTORS GENERAL
on INTEGRITY and EFFICIENCY

- CIGIE IT Committee and FAEC are holding recurring training events for IT Auditors
  - Next event we're co-hosting is on September 27, 2018 (8 a.m. – 11:30 a.m., Rosslyn, VA):
    - The ABCs of Building and Running Your Own Test Lab. If you are considering building a test lab, or you're curious to learn how others have built and are running theirs, this forum is for you!
  - If you're interested in this event, or receiving notifications of future IT Audit training events we'll be co-hosting, contact John Patricola at jpatricola@uspsoig.gov

DOI OIG Information Technology Audits, Inspections, and Evaluations in 2018

Interior Incident Response Program Calls for Improvement, March 2018

- http://www.foxnews.com/politics/2018/04/05/cybersecurity-fiasco-interior-department-computers-trying-to-talk-to-russia-inspectors-say.html

U.S. Bureau of Reclamation Selected Hydropower Dams at Increased Risk from Insider Threats, June 2018

- https://spectrum.ieee.org/riskfactor/computing/it/two-critical-us-dams-at-high-risk-from-insider-threats

- https://www.sans.org/newsletters/newsbites/xx/46

HUD OIG IT Evaluations - Highlights

- ➢ HUD OIG IT Lab build-out

- ➢ Ad-hoc and Continuous Vulnerability Assessments

- ➢ Automation of FISMA Metric Data Collection

- ➢ Assessments of:

    - ➢ Enterprise Architecture

    - ➢ IT Modernization

    - ➢ Data Governance

- ➢ Enhance Internal Evaluator and Auditor Cyber Skills

Office of Inspector General | U.S. Department of Housing and Urban Development

Effective remediation of security weaknesses is essential to building a mature and sound information security program

HUD OIG Lab Build-Out Justification

Justification methods to increase IT technical testing capabilities

1. Conduct a capability analysis
2. Develop a cost analysis

Capability Analysis

Computer Lab		Contractor / No Computer Lab	
Flexibility in assessment times – can conduct continuous or on-demand vulnerability assessment tasks	✓	Assessments are restricted to contractor availability and budget	✗
Constant state of assessment preparedness for priority changes	✓	Procurement process for IT contractor support delays opportunities for priority changes	✗
ITED and ISAD can leverage same equipment or resulting data for different reviews (creates a more collaborative approach)	✓	Higher OIG costs as ITED and ISAD use separate methods for verifying IT data and full contractor support costs more than a lab	✗
Hardware and non-subscription software can be re-used with no additional costs (one-time fee)	✓	Pay for same hardware and software per contractor engagement	✗
HUD OIG personnel have and will gain additional broad experience across multiple IT domains	✓	Contractor can be leveraged for detailed experience in specific IT domains.	✓

Cost Analysis

		Computer Lab[1]	Contractor / No Computer Lab[2]
Year 1	Lab Cost	$42,000	$0
	Contractor Cost	$50,000	$90,000
Year 2	Lab Cost	$7,000	$0
	Contractor Cost	$0	$0
Year 3	Lab Cost	$7,000	$0
	Contractor Cost	$40,000	$90,000
Year 4	Lab Cost	$7,000	$0
	Contractor Cost	$0	$0
Year 5	Lab Cost	$7,000	$0
	Contractor Cost	$30,000[3]	$90,000
Total 5-Year Expenses[4]		*$183,000*	*$270,000*

Potential Results

1. Continuous vulnerability assessment capability – Independent review, different toolset and frequency
2. Enhancement of FISMA Metric Assessments – Technical validation of policy and procedures
3. Enablement of ongoing basic testing – Scoped testing not always conducted by Agency