



National Academy for Finance and
Economics
Ministry of Finance



Content

2nd part: Practical real IT

- IT audit tools
- IT projects norms
- IT audit information sources



Rijksacademie voor Financiën,
Economie en Bedrijfsvoering
Ministerie van Financiën



Schedule:

Start – 11:00

End and Lunch 12:00



IT audit tooling

- Why use tooling?
- Efficiency
 - Big data analysis can be done very fast
 - More tests can be conducted in minimum of time
- Effectively
 - Easier recognizing the (potential) risks

Using tools as audit instruments next to gathering data from interviews and documents.

**IT audit should check the IT controls / process
not perform the check itself! (cmm levels)**



IT security audit tooling

- You can find a lot of security tools on the internet.
But it is hard to find the right tool for the right job.
- Open source is usually better
- And more secure (Snowden)
- Who should do the tests?
- What are the risks? Risk analysis,
Hackers or NSA of FSB -> APT
Fraud? SOD, secure design
Trends IOT, privacy, cyber security



IT audit tools

- Data analysis Tools: Excel, IDEA, ACL, Disco
- Continuous auditing and monitoring
 - IT-applications: SAP, Oracle EBS, Bwise

Which looks better in an audit report:

"Audit reviewed 50 transactions and noted one transaction that was processed incorrectly"

or

"IT Audit used CAAT and tested every transaction over the past year. We noted XXX exceptions wherein the company paid YYY euros on terminated policies."

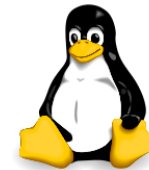
Or – even better-

reviewed the existing transaction monitoring process and found the transaction testing process to be working correctly



IT security tools

Computer security



UNIX[®]

Network security



JUNIPER
NETWORKS



Internet security



WORDPRESS

Example of tools for testing:



AppScan
IBM. Rational.



IT audit tools

- www.SecTools.Org
Top 125 Network Security Tools
- Who should use them:
 - ISACA: CISA, CISM
 - ISC₂: CISSP



IT projects audit

- Why use norms?
- Efficiency: comply or explain.
- Effectively: Tested / proven process.

- Prince2
- MSP (managing successful programs)
- ISACA's Val-IT for IT governance.



IT audit information

- ISACA, Norea
- NIST, MITRE, (NSA)
- Europe, Nato
- SANS
- Bruce Schneier
- Too fast to follow
- me :-)



Questions and answers



Thanks for your attention!