



Advanced Security (Information Security Management) - Session 1: Introduction

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What do you remember from the Security Lecture?



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Recapturing Some Concepts

- Cryptography
- Authentication
- Authorization
- Network Security
- Application Security
- Attacker's approach

Topic 1: Security Frameworks, Trust and Assurance

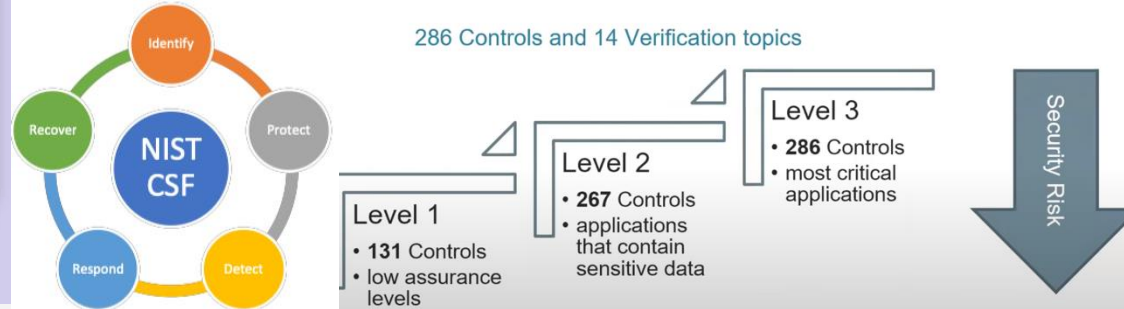


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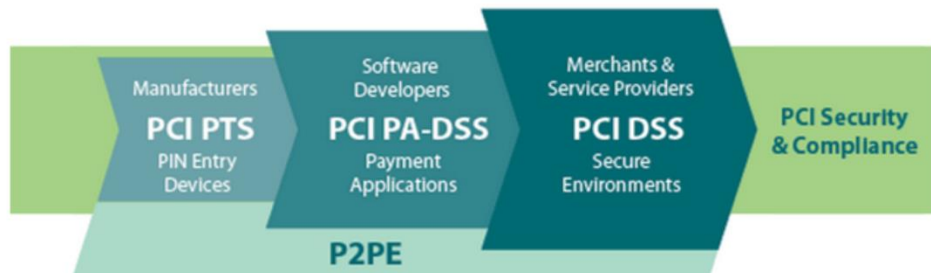
OWASP – Application Security Verification Standard v4.0

The OWASP Application Security Verification Standard (ASVS) Project provides a basis for testing web application technical security controls and also provides developers with a list of requirements for secure development.



PAYMENT CARD INDUSTRY SECURITY STANDARDS

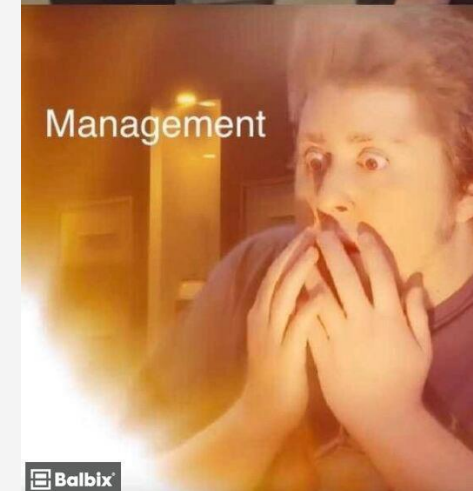
Protection of Cardholder Payment Data



Ecosystem of payment devices, applications, infrastructure and users



Governance Team

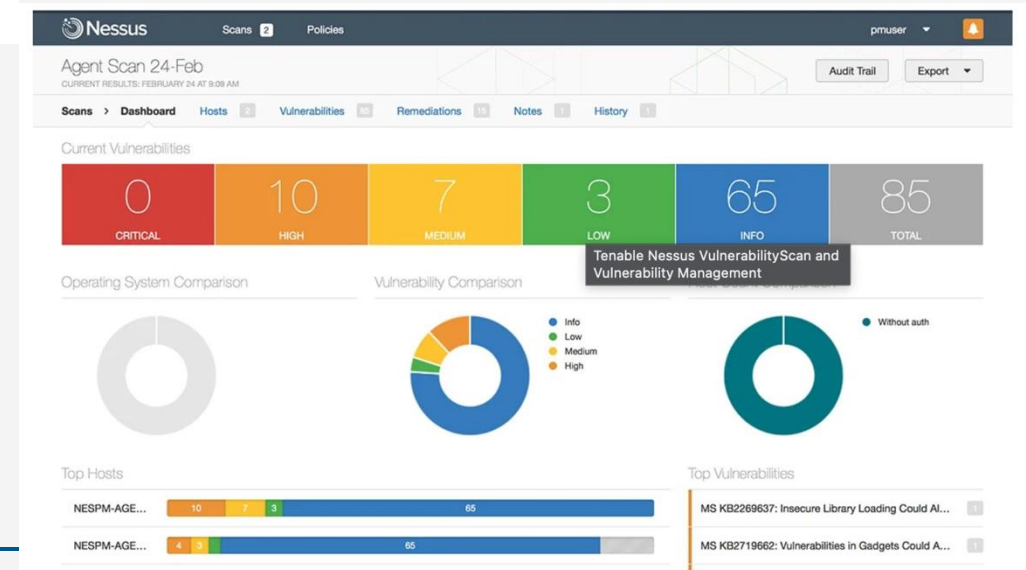
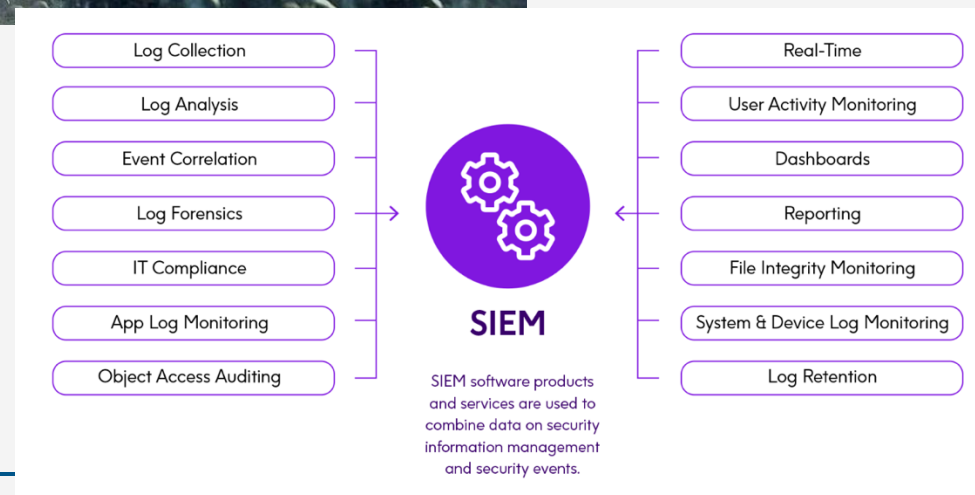
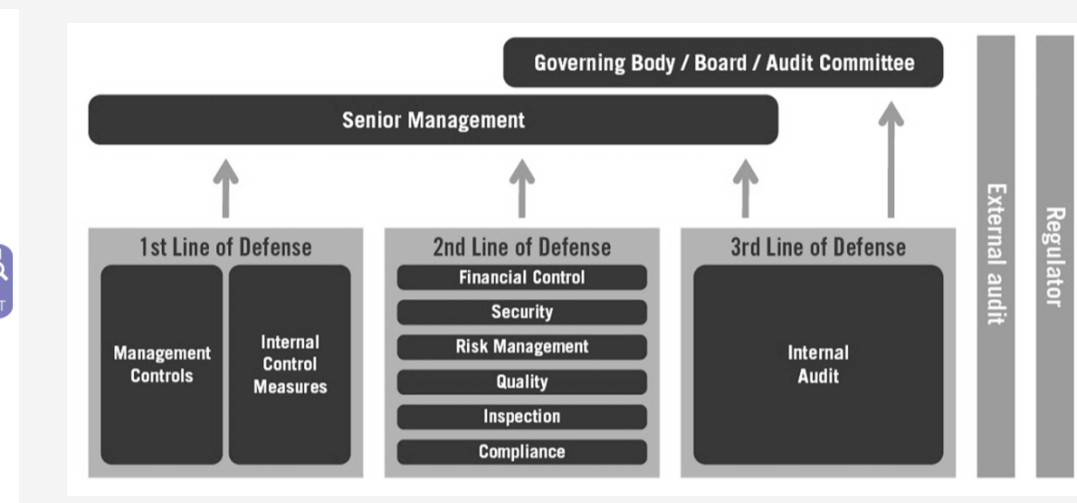


Balbix

Top 2: Security Organizations in Companies



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Topic 3: Fundamental Web Application and Network Attacks



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CISO being prepared with a strong cybersecurity posture:



Hackers:



CTF Try Out Challenges Scoreboard

HB HWR Berlin
1 member

RANK 0 POINTS 0/15 CHALLENGES 0/15 FLAGS

Search challenges by name or category Submit flag & press enter

	UNSOLVED	3 WEB CHALLENGES	POINTS	DIFFICULTY	STATUS	ASSIGNEE
TimeKORP	1050 solves	825	very easy	◇	▼	🔒
Flag Command	1056 solves	825	very easy	◇	▼	🔒
Labyrinth Linguist	417 solves	925	easy	◇	▼	🔒

SOLVED 0 WEB CHALLENGES

POINTS DIFFICULTY

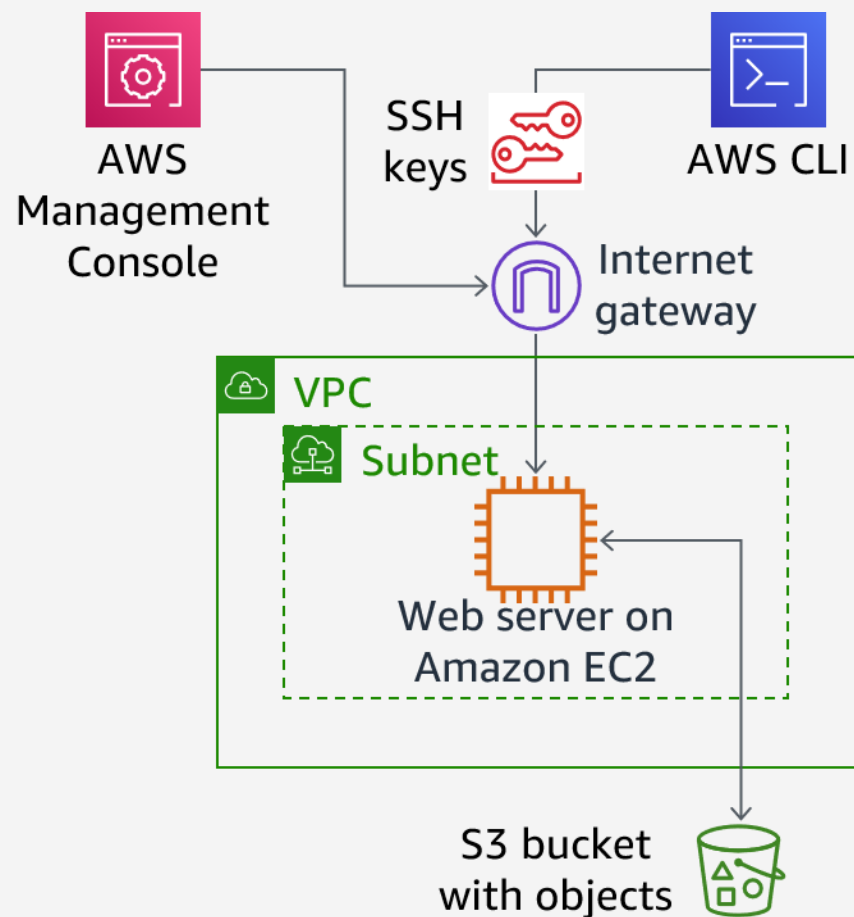
No challenges solved yet.
Start Hacking!

Warmup Web Forensics Reversing Misc Crypto Hardware

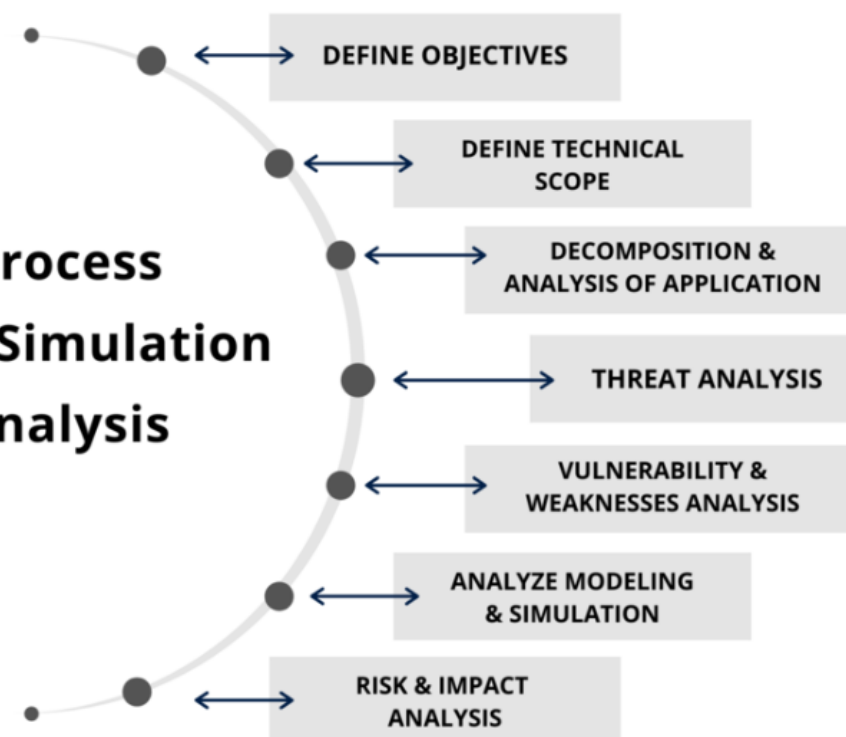
Topic 4: Security Architectures and Cloud Security



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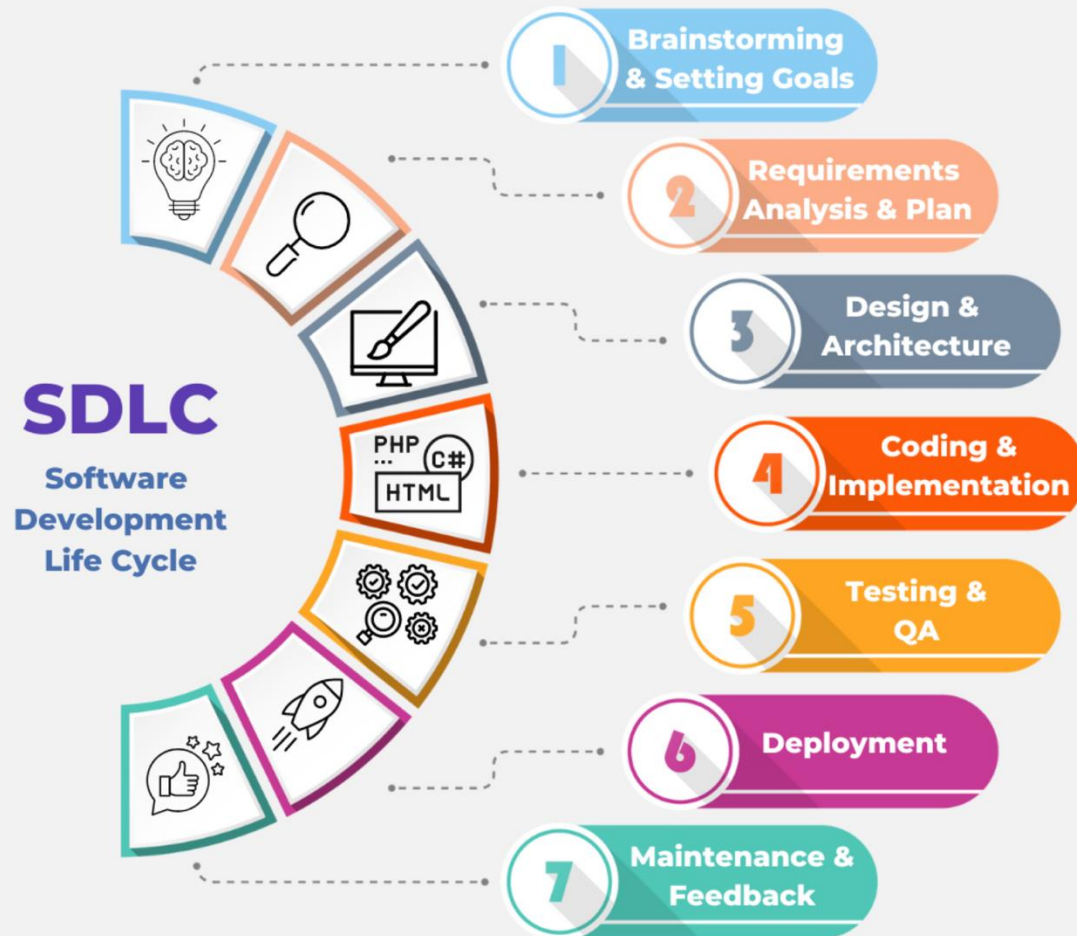


Stages of Process for Attack Simulation & Threat Analysis (PASTA)

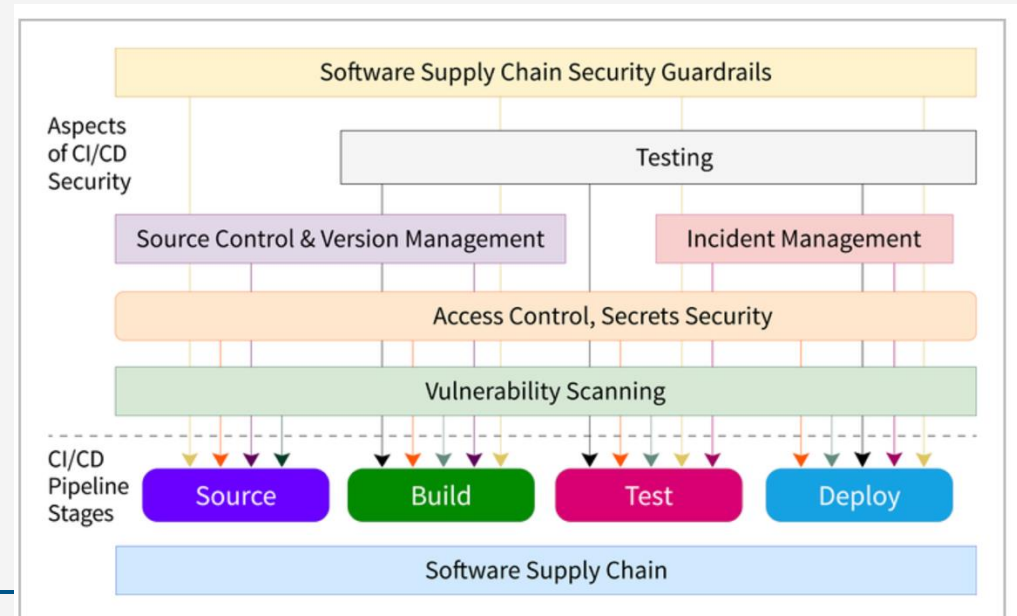
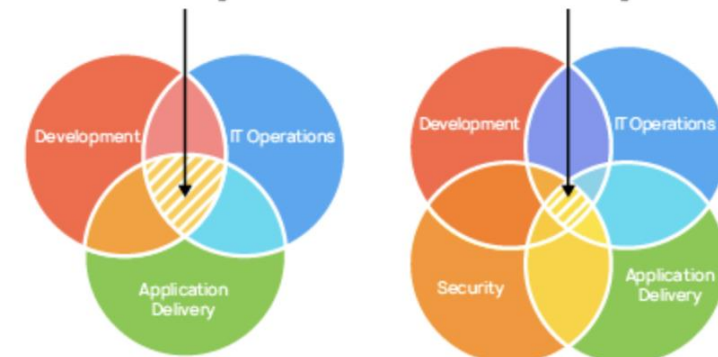




Topic 5: DevSecOps



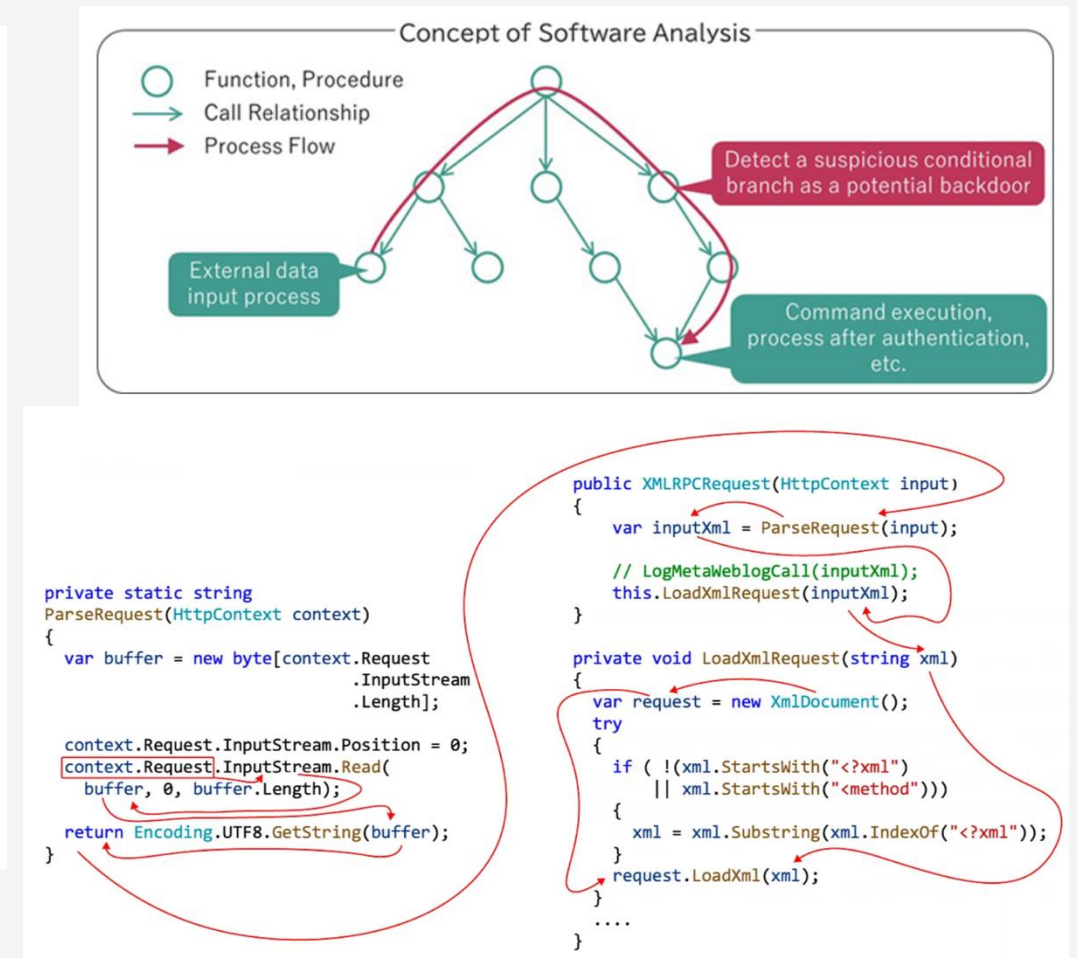
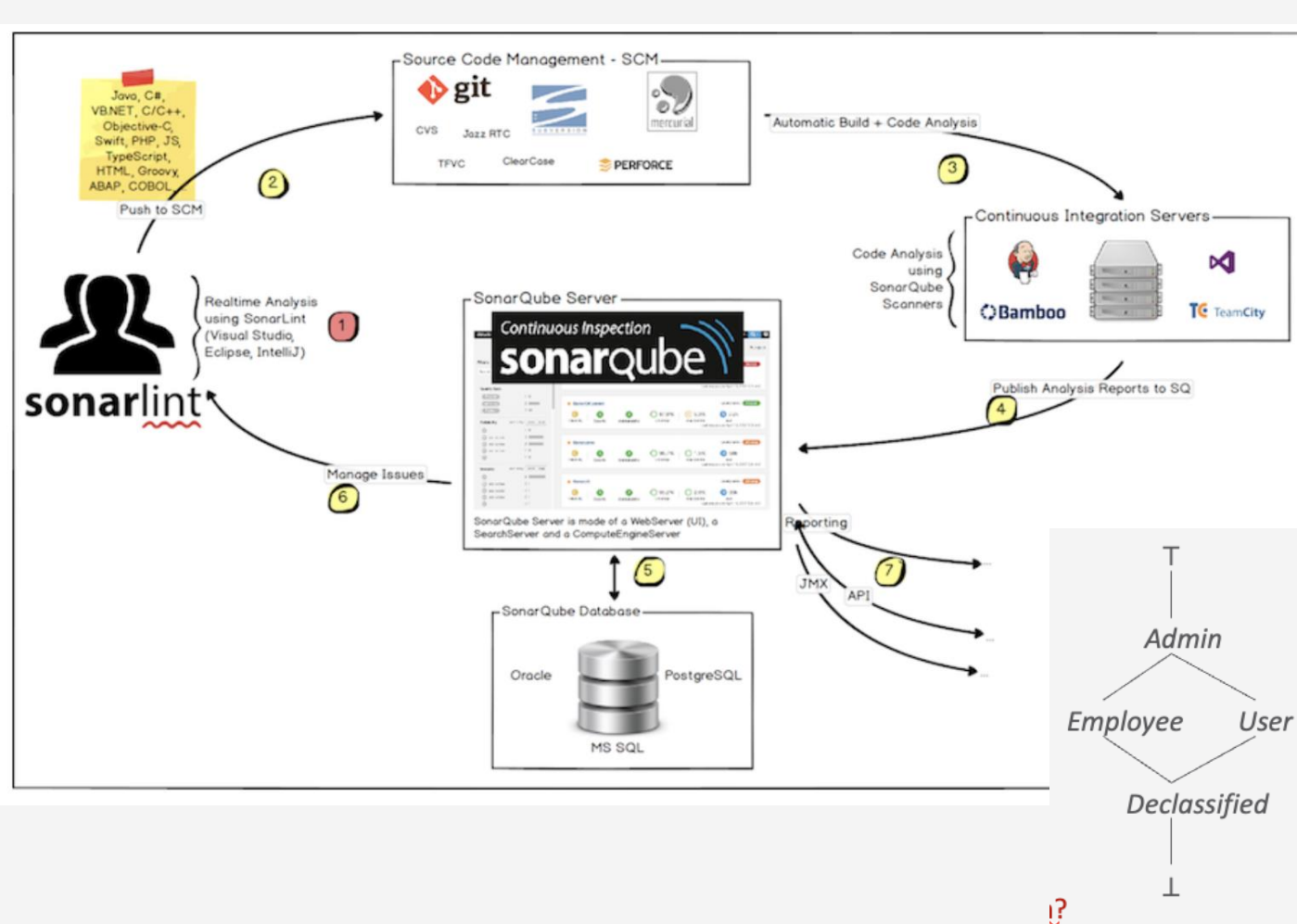
DevOps VS DevSecOps



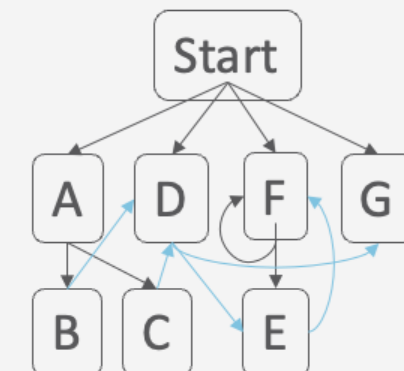
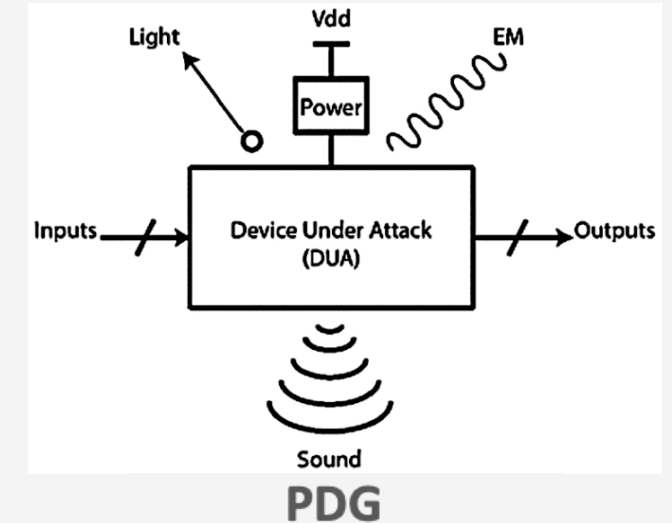
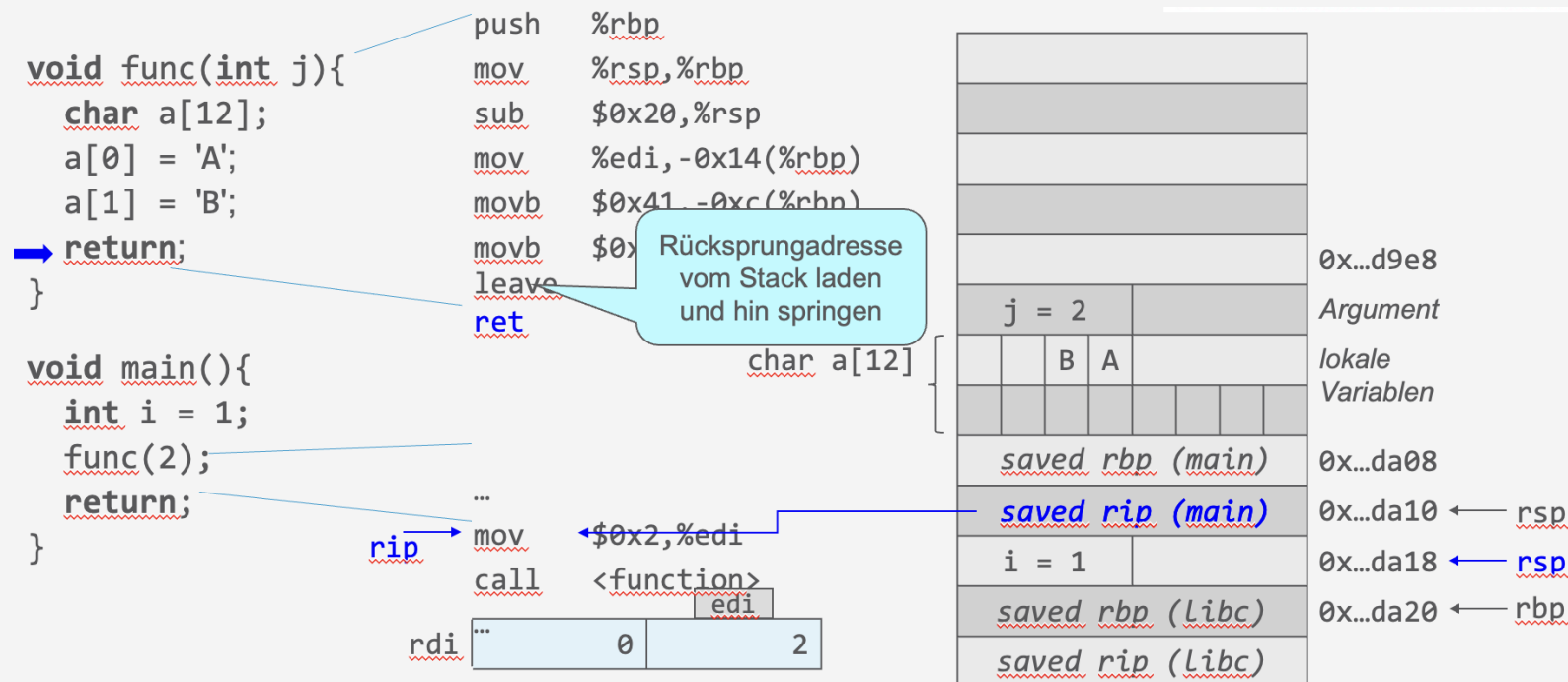
Topic 6: Static and Dynamic Analyses for Security (Static Application Security Testing, SAST)



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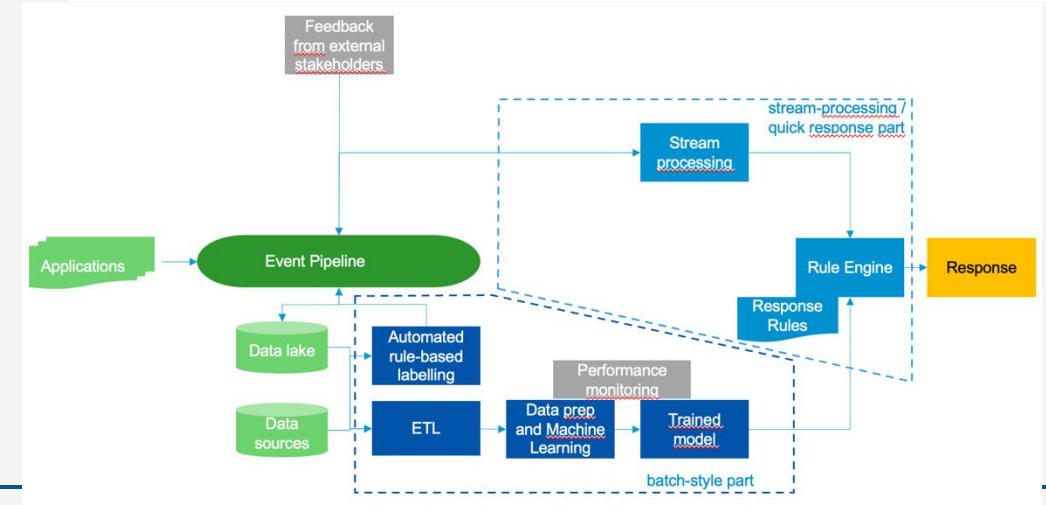
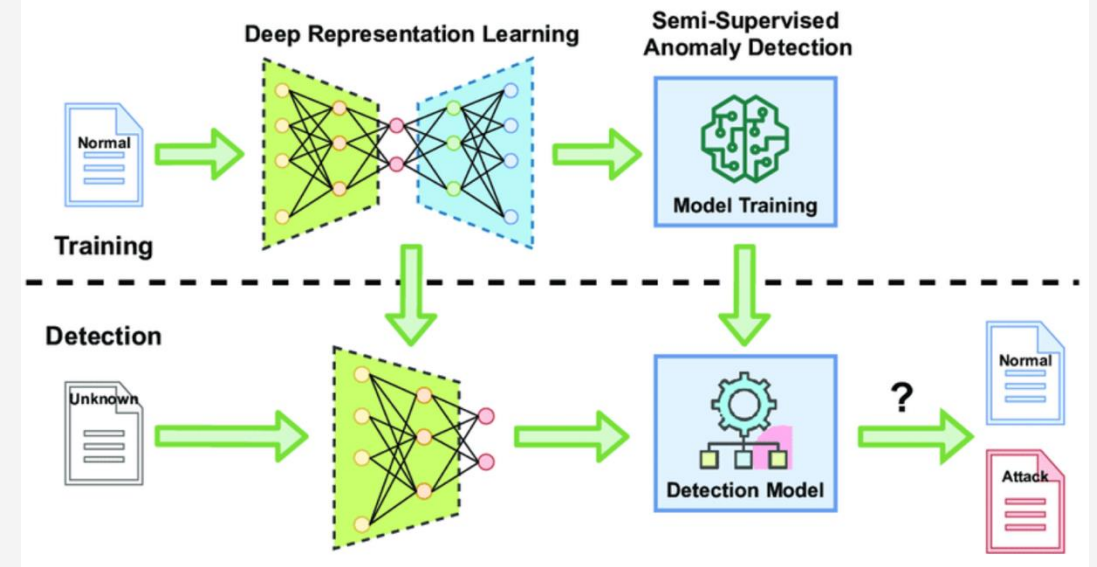
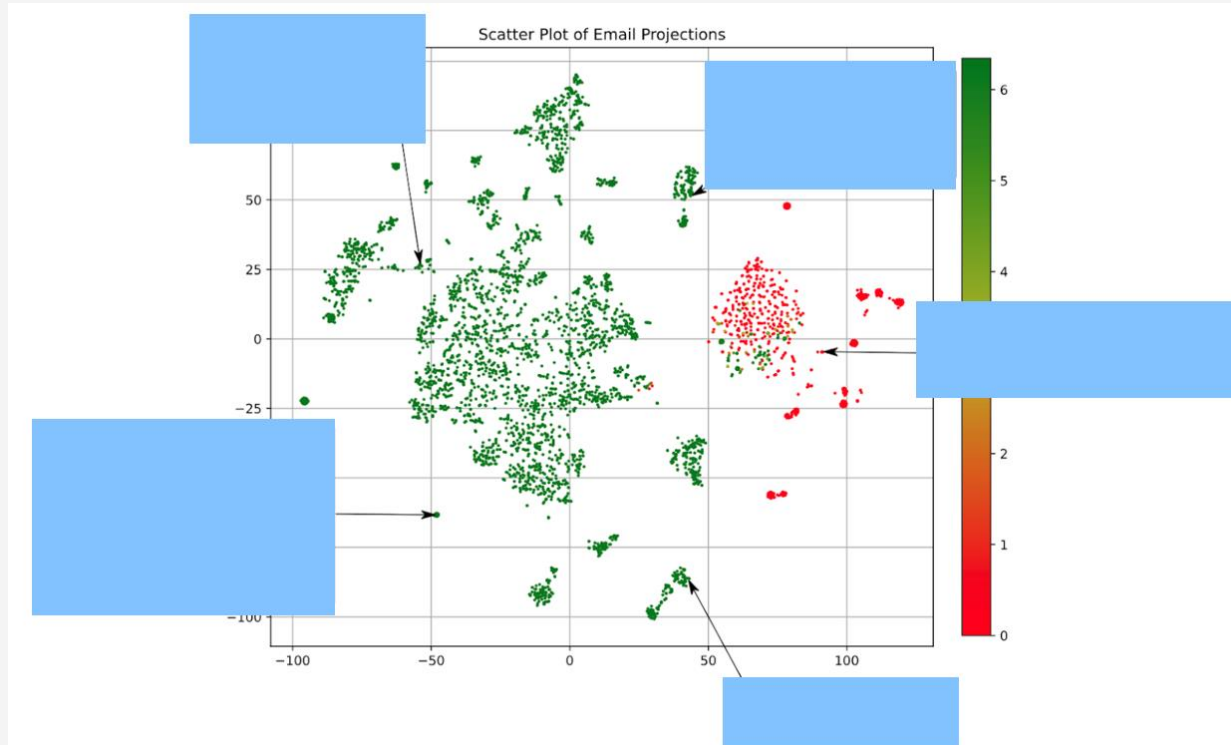
Topic 7: Embedded Security Aspects



Topic 8: Machine Learning and Security



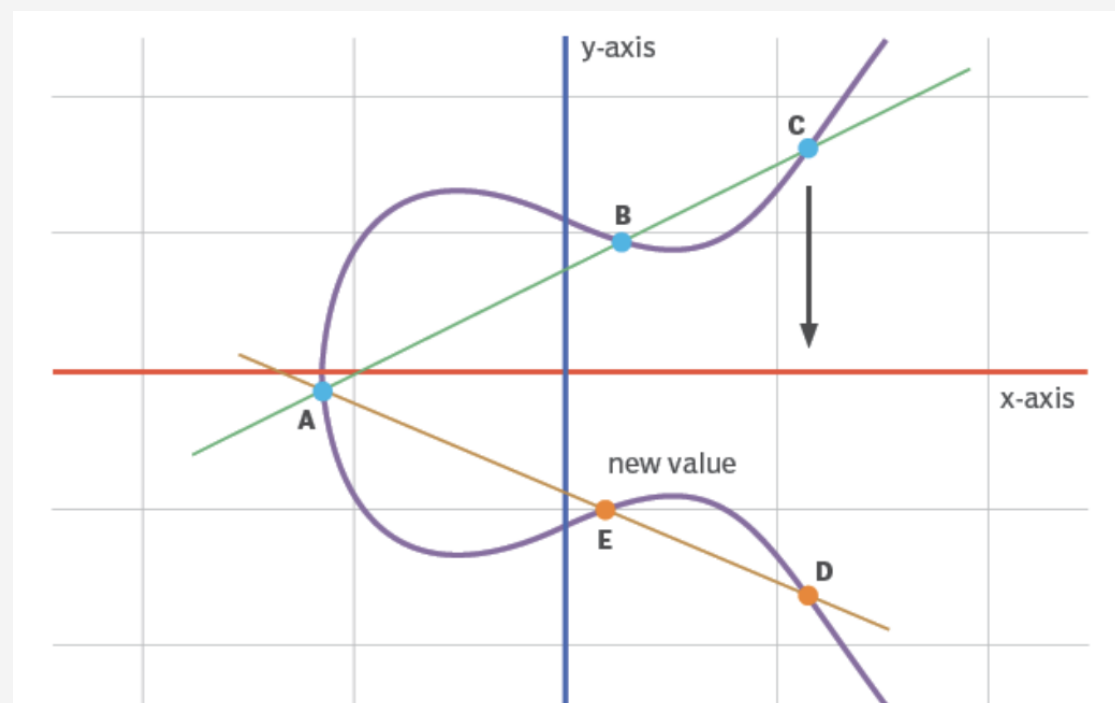
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Topic 9: Advanced Aspects of Cryptography



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Is Cryptography Safe Against Quantum Computing?

