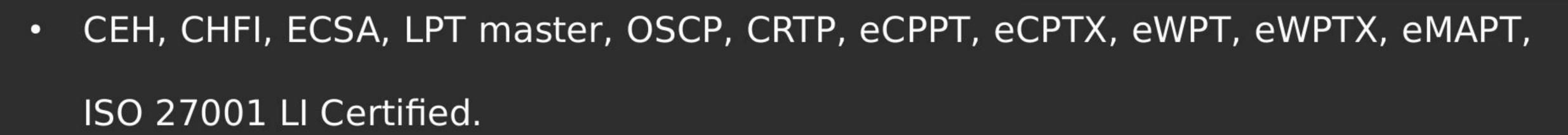
Cybersecurity From Zero to Hero

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Whoami

- 13+ Years of IT & Infosec Experience.
- Cybersecurity Manager [at] Baaz Inc...
- Cybersecurity Trainer.
- OWASP Amman Chapter Leader.
- Youtuber, Blogger, & CTF Maker.



Top Arab Cybersecurity Social Media Influencer (2019, 2020, & 2021).

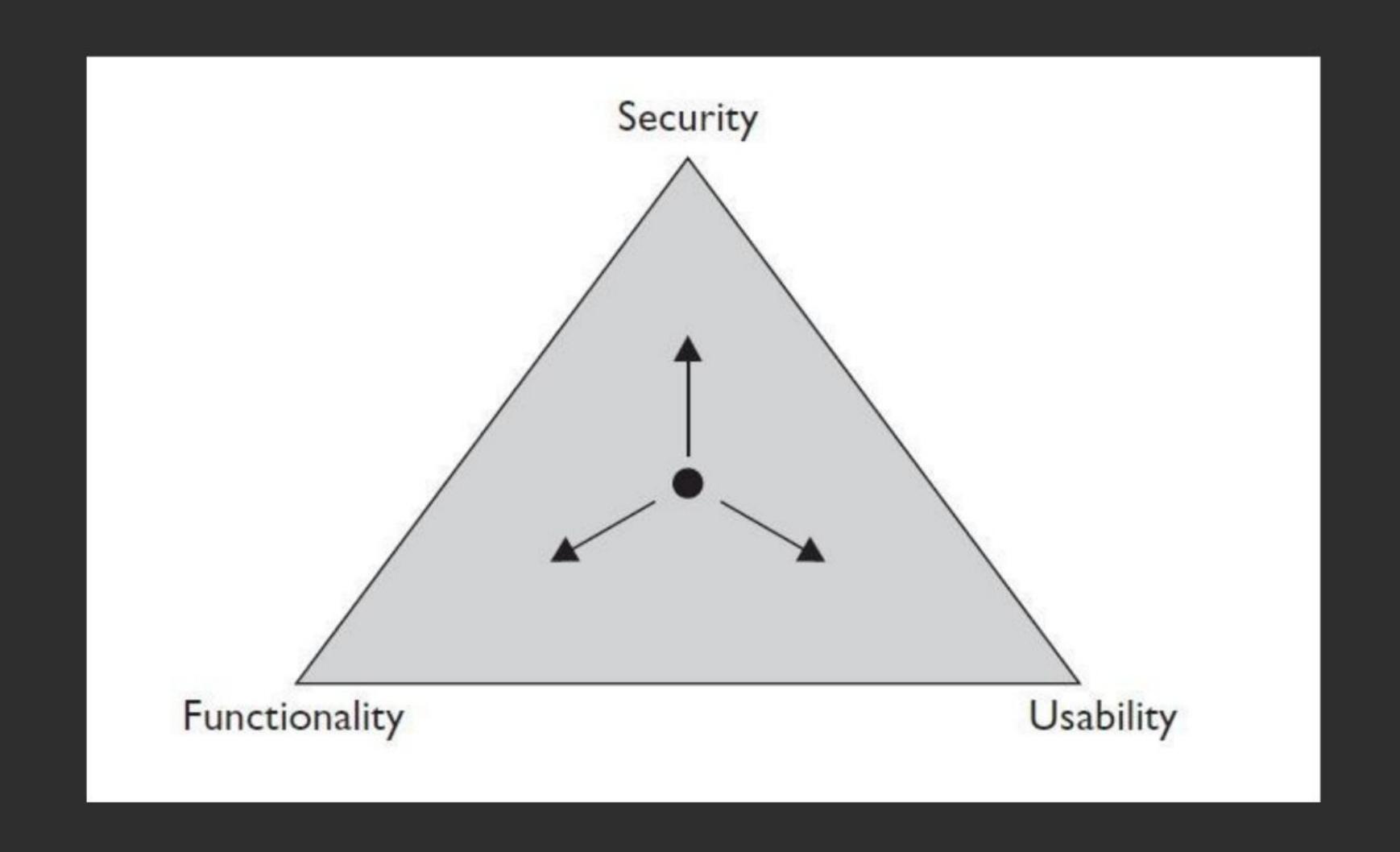


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Introduction to Cybersecurity

- Cyber Security is the practice of protecting our electronic data by preventing, detecting, and responding to cyber attacks.
- Cyber Security effects on :
 - Political Systems
 - Countries Infrastructures ie.: Electric, Gas Stations, etc
 - Companies
 - You Privacy
 - ... etc
- This means that it affects your life

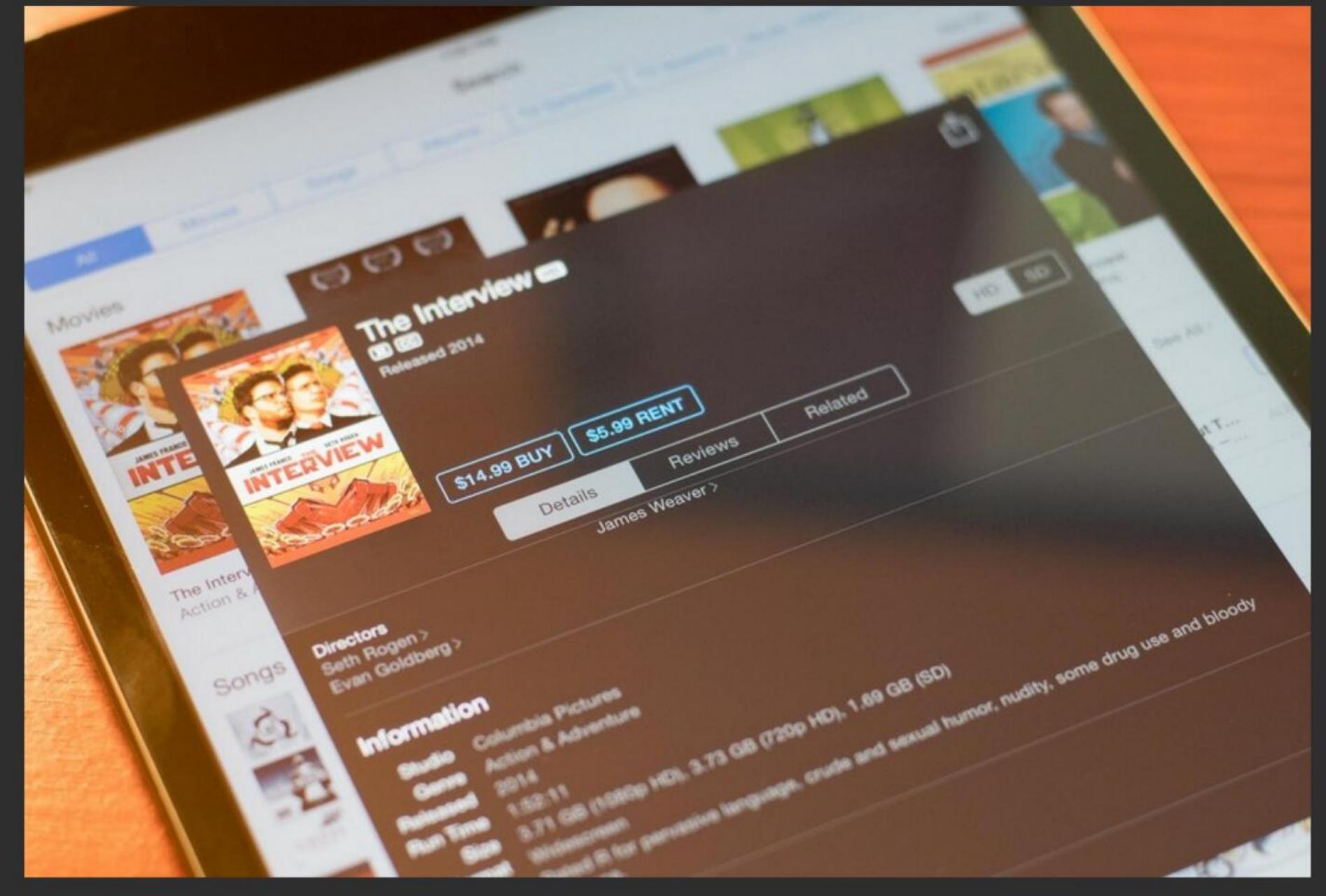




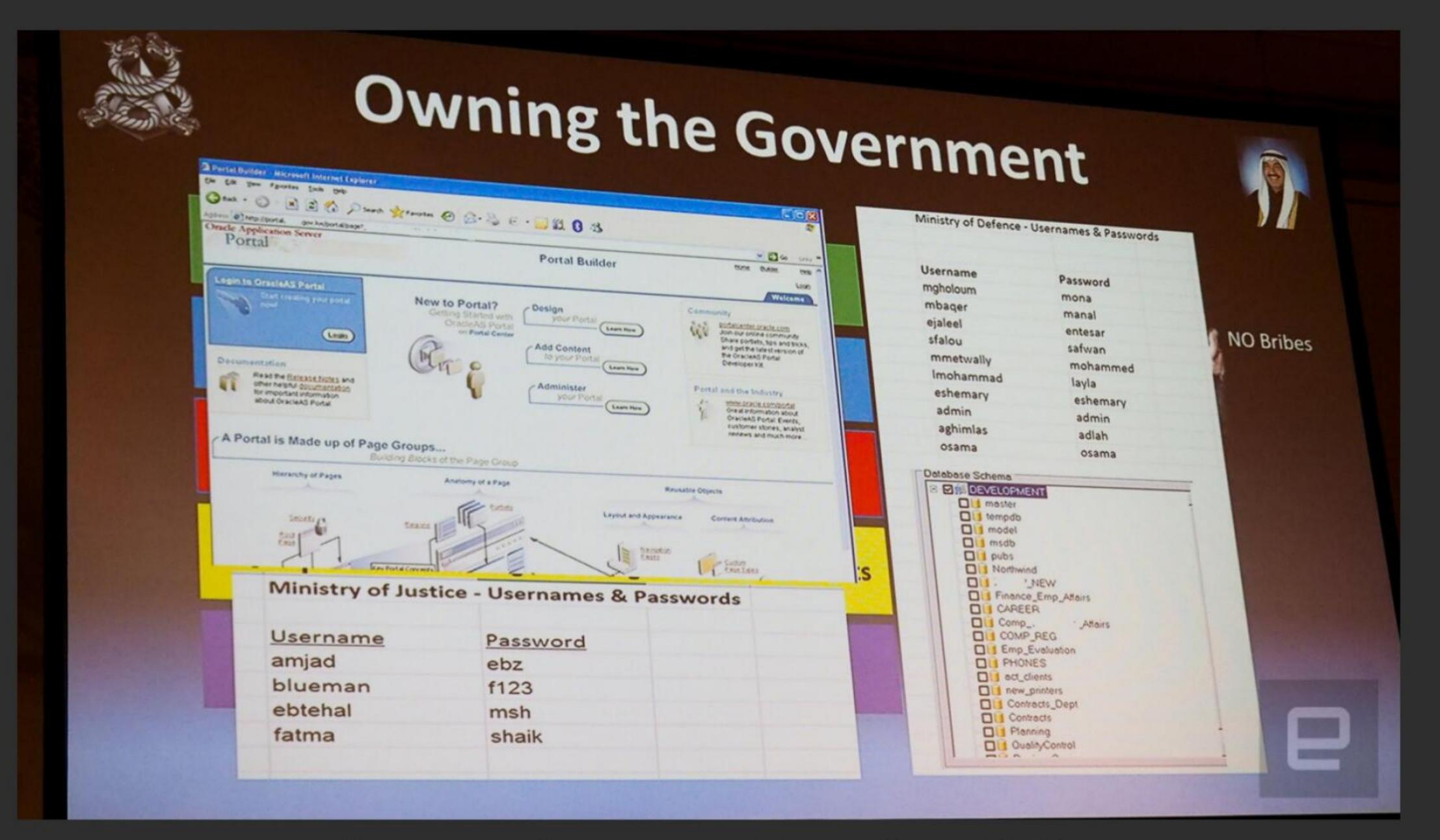
https://en.wikipedia.org/wiki/Bob_Quick_(police_officer)



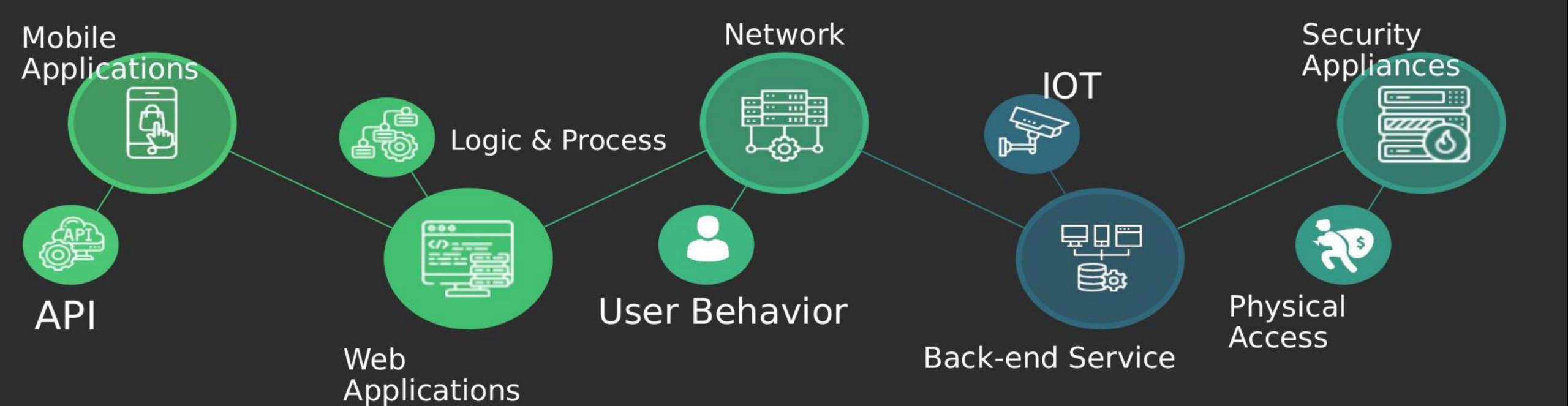
https://www.businessinsider.com/biometric-fingerprint-password-hacking-2015-1



https://en.wikipedia.org/wiki/Sony_Pictures_hack



Complete Security



Cybersecurity Paths

- Defensive (Blue Teaming)
 - Security Operation Center
 - Security Architecture
 - DFIR
 - Threat Hunting
 - Threat Modeling
- Offensive (Red Teaming)
 - Pentesting
 - Source Code Review
 - Threat Emulation
- Governance & Management
 - Policies
 - Procedures
 - Compliance

Security Operation Center (SOC)

- Budget on Prevention vs on Detection
- While Prevention is Ideal, Detection is a MUST!
- Better Visibility
- SOC Analysts are those who:
 - Detect.
 - Analyze.
 - Respond to...
 - Report on...
 - And Prevent, cyber security incidents.

- SOC Job Titles:
 - Intrusion Detection Analyst
 - SOC Analyst / Engineer
 - CERT Member
 - Cyber Threat Analyst
- SOC Jobs Certificates :
 - EC-Council Certifications (CEH, CSA, CTIA, ECIH)
 - CompTIA Certifications (Security+)
 - SANS GIAC Certifications (GSEC, GCIH, GCIA, GMON)
 - ISC2 Certifications (SSCP)



Incident Response

- Methodology:
 - Preparation, Identification, Containment, Eradication, Recovery, Lesson Learned.
- Certifications Related to IR Jobs:
 - EC Council Certifications (ECIH)
 - SANS GIAC Certifications (GCIH, GCIA, GCFA, GREM)

Digital Forensics

- Law and Order of Information Security
- Digital Evidences are extremely Volatile
- Chain of Custody (Continuity of Evidence)
 - Evidence has been (Gathered, Processed, handled and stored) without alteration.
- Job Titles :
 - Computer Crime Investigator
 - Insider Threat Analyst
 - Law Enforcement
 - Digital Investigation Analyst
- Certifications :
 - EC Council Certifications (CHFI)
 - SANS GIAC Certifications (GCFE, GCFA, GREM)
 - eLearnsecurity (eCDF)

Governance & Management

- Governance determines who is authorized to make decisions.
- Governance: doing the right thing
- Management: doing things right.
- Jobs : CISO, Security Manager, Security Director

Management	Governance
Implementation	Oversight
Authorized to make decisions	Authorizes decision rights
Enforce policy	Enact policy
Responsibility	Accountability
Project planning	Strategic planning
Resource utilization	Resource allocation

Security Audit

- It is a manual or systematic measurable technical assessment of a system or application.
- Usually the audit will be against standards, benchmarks, best practice and framework or process.
- Jobs: Auditor, Lead Auditor, Audit Manager
- Some of the standards in security the audit is happening against it:
 - ISO 27001 (ISMS Information Security Management System)
 - PCI DSS (The Payment Card Industry Data Security Standard)
 - HIPAA (Health Insurance Portability and Accountability)
 - ISO 22301 business continuity management system (BCMS)

Risk Assessment

- It is the process of understanding and responding to factors that may lead to a failure in the confidentiality, integrity or availability of an information system.
- Security Risk Assessment can be implemented base on different standards and approach like: ISO 27005/ ISO 31000 / NIST / Cobit 5 for risk.
- Jobs: Risk Assessor, Risk Officer, Risk Manager

Pentesting

- Exploits security vulnerabilities in web-based applications, networks and systems.
- They use a series of penetration tools some predetermined, some that they design themselves to simulate real-life attack.
- Responsibilities:
 - Perform formal penetration tests
 - Design and create new penetration tools
 - Web, Mobile, Network, IoT, SCADA, ...etc.
 - Help the customer fix the vulnerabilities.
 - Social Engineering.
 - PT is not about zero-days.

- Skills:
 - Computer Skills
 - Networking Skills
 - OS Skills (both Windows & Linux)
 - Infosec knowledge
 - Programming Skills
 - CTF Competitions











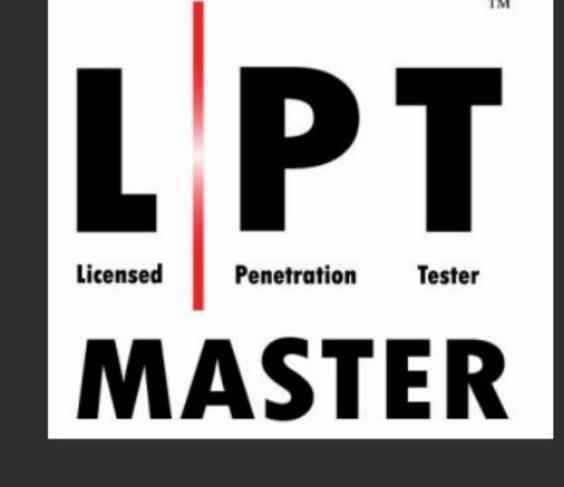


CS A

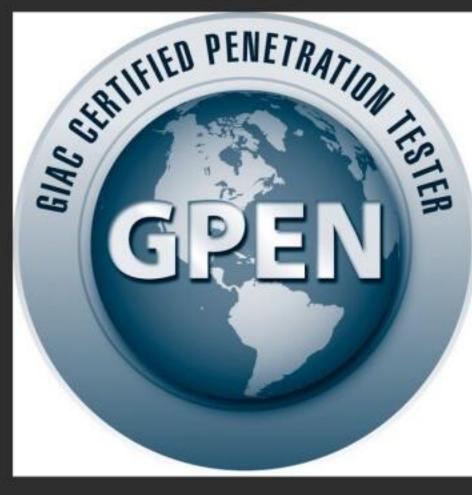
Certified Security Analyst













Golden Rule

"The best way to learn new things in your field is to teach them to others"

Any Questions, Comments or Concerns?

Thank you!

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