

Tell me stories about your appsec, let's skip the pentest

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O.W.A.S.P.



- Open Web Application Security Project[s]
 - owasp.org, open-source, non-profit
 - AppSec evangelism
- OWASP ≠ Top 10 (which is an educational project!)
- for production:
 - ASVS V3 (Application Security Verification Standard)
 - SAMM (Software Assurance Maturity Model)
 - Testing Guide (TG)
 - SKF (Security Knowledge Framework)
 - (T10) Proactive Controls

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OWASP Proactive Controls

- C1: Parameterize Queries
- C2: Encode Data

OWASP

- C3: Validate All Inputs
- C4: Implement Appropriate Access Controls
- C5: Establish Identity and Authentication Controls
- C6: Protect Data and Privacy
- C7: Implement Logging, Error Handling and Intrusion Detection
- C8: Leverage Security Features of Frameworks and Security Libraries

C9: Include Security-Specific Requirements C10: Design and Architect Security In

OWASP ASVS

- AppSec Verification Standard
 - "security engineering checklist"
 - levels (eg. L2): risk --> requirements --> verification

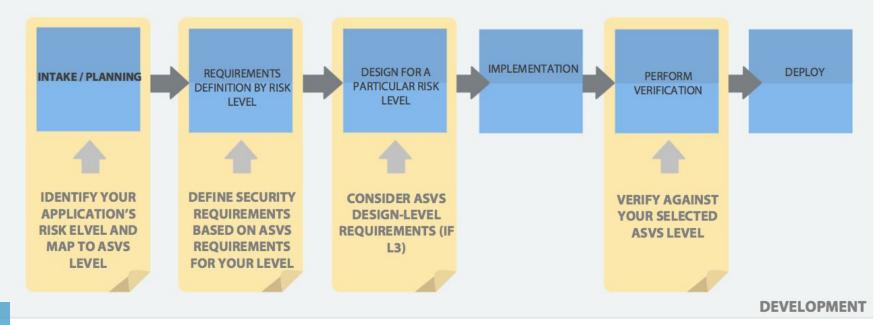
PROCUREMENT

3

ADVANCED

STANDARD

OPPORTUNISTIC



ORGANIZATION



schneier.com/crypto-gram.html

- "the conceptualism"
- pauldotcom.com (security weekly)
 - beer & cigars
- <u>twit.tv/sn</u> (security now)
 - \circ your grandpas
- Jean Baudrillard: Passwords
- goo.gl/6GGzYq



appsec concepts



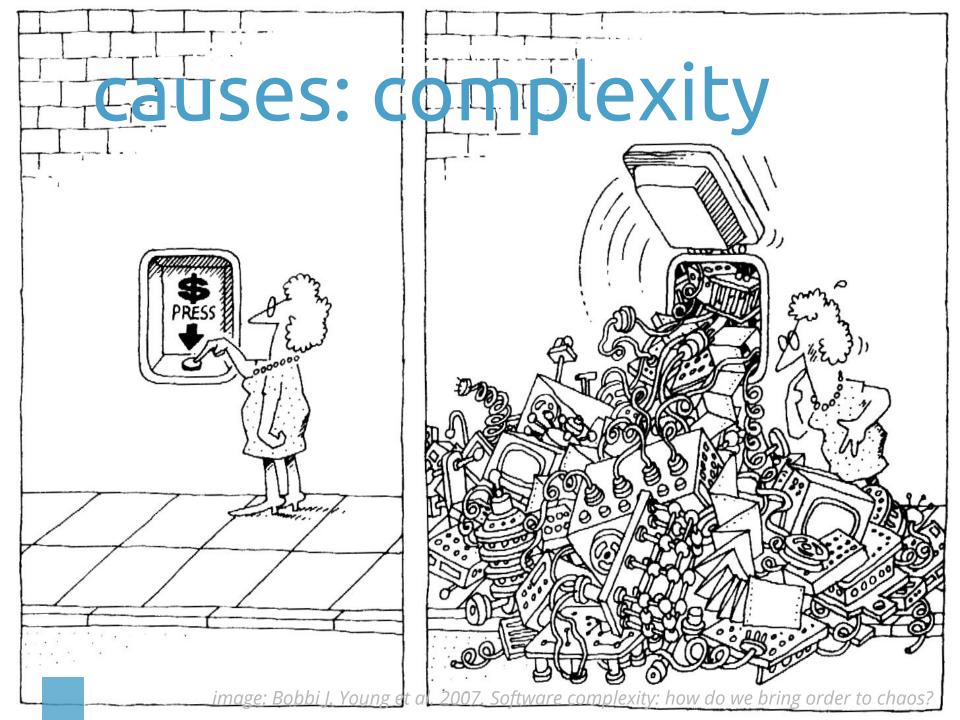
- AppSec = QA (**security QA**, SeQA)
 - product + <u>production</u>/dev + <u>support</u> + etc practices
- don't buy it w/o threat modeling (risk assessment)
- audit/testing
 - va, **vapt**, sast, dast, iast, **code review**, **ci** ...
- S-SDLC (SDL) + AS policy
 - design, code, configuration, controls, testing (MS SDL)
 - patch management, support agreement, sec SLA
- countermeasures: filter, isolate, monitor, respond
 - waf, sandboxing, dmz, log audit, id(p)s

untrustable quality

WILL CODE

JAVA AND C++ FOR FOOD

image: deviantart.com, by sefesoft



causes: dev culture

image: en.wikipedia, by Klean Denmark

causes: complicity

E

image: Thomas van de Weerd

causes: appsec mis-mgmt

CEO, business, legal

e: microso

CIO, CISO, CRO, etc.

causes: testing methodologies

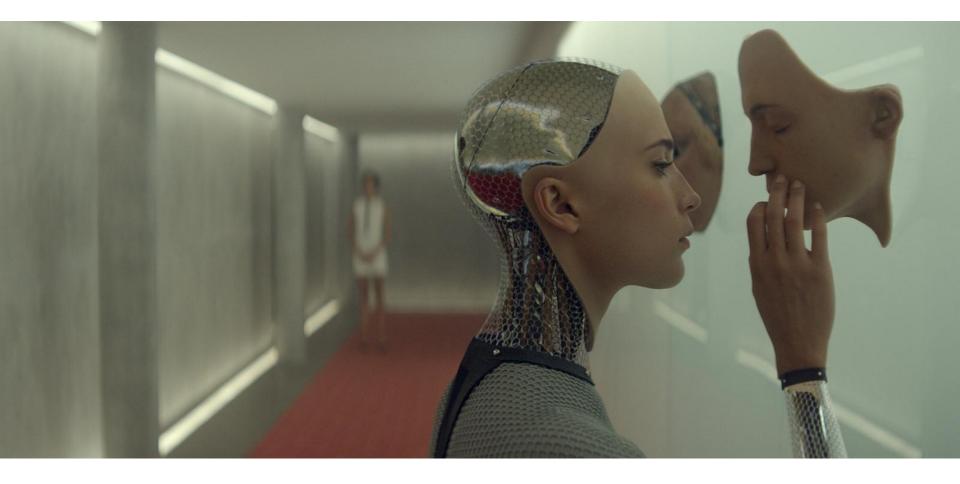


image: flickr.com/photos/bagogames/16153704398

causes: unhelpful eh



image: http://www.eccouncil.org/portals/0/Images/img/icons/ec-council-about-us-banner1.png

let's skip the pentest/audit! let's do narrative interviewing!



why stories

- the root causes of application security
 - are mostly of organizational nature, not technical
- why blackbox/dynamic testing while ...
 - (while you can do static / code review?!)
 - while you can ask!
- testing the product you measure symptoms while ...
 - the roots are in the process
 see S-SDLC, QA, policies, practices, conflicts
 - the roots are in the manufacturing unit (org)

narrative interview

- use the mature org dev methodology
 see qualitative interview
- interview managers
 - with care
- interview workers (devs, devops)
- analyse the situation and interpret the findings
- propose changes
 - improving security (S-SDLC) is an iterative process
- speak Utlish

+design



-testing

did you threat-model?

Den Web Application Security Project

and secure coding course?



be tested, trained, coached!

train secure coding

review with devs

audit, VAPT



+ respond to the incidents!



resource: cut eh bdgt

- eh (ethical hacking incl webapp/mobile testing) is just another expensive social construct you subscribed to
 o eh culture is just as bad as that of the dev's
- relocate and spend more on:
 - trainings, **secure coding** courses
 - S-SDLC, AppSec policy/**rulebook** enforcement
 - threat modeling and IR
 - find the root causes (mostly organizational)
- use appsec specialists with whom your devs can work constructively (eg. coaching)

resource for the smb-s

- involve a visiting appsec specialist in critical moments
- have a **visiting ciso**, at least rarely visiting
- make one resident member of the dev team security champion (see MS SDL)
- secure coding courses



soon: 16Q1

OWASP is a worldwide free and open community focused on improving the security of application software by making application security visible.

uuu.OWASP.org

meetup.com/owasp-hu twitter.com/owasp_hu

this prezo: goo.gl/6GGzYq

