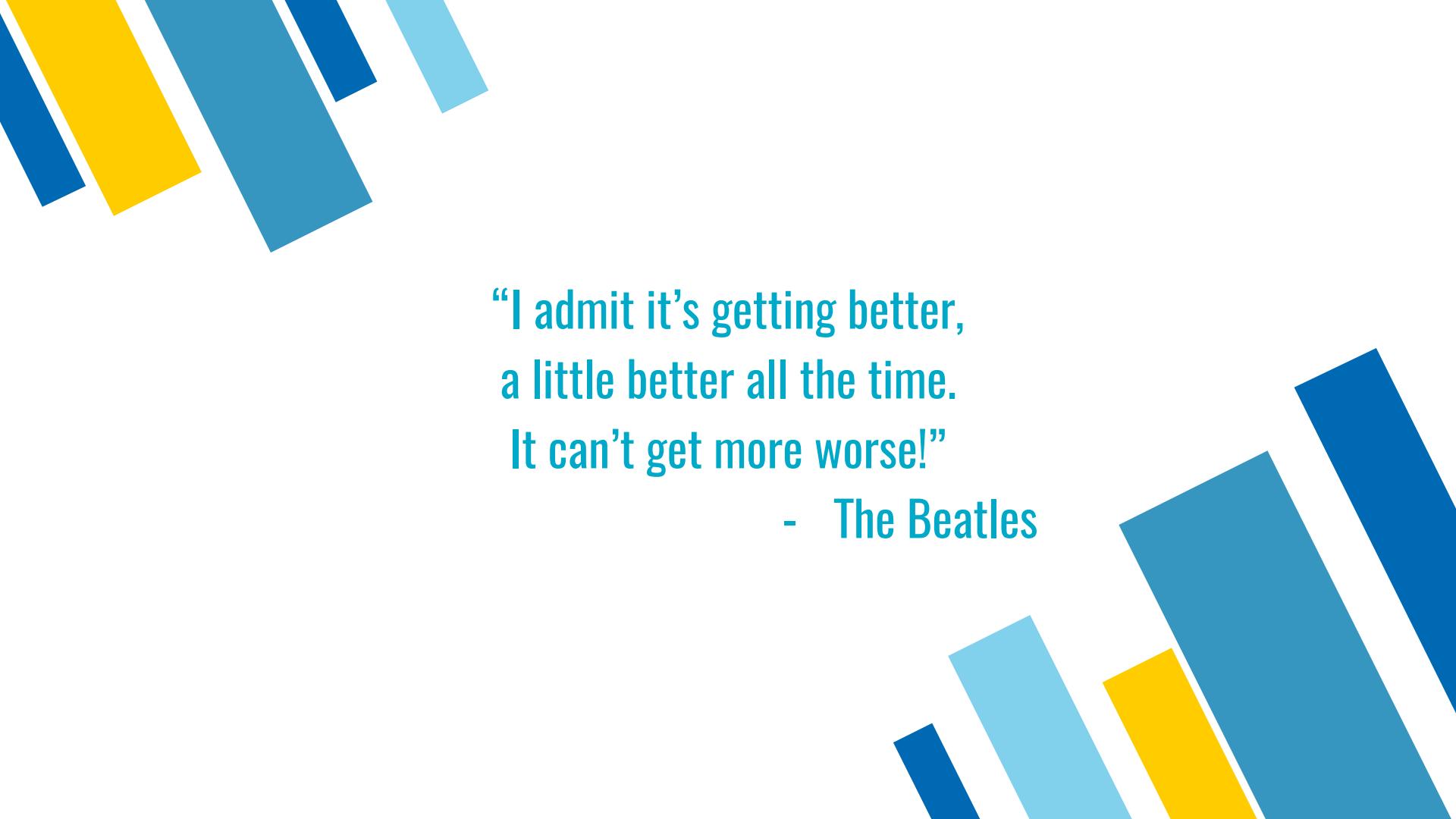


meetup



“I admit it’s getting better,
a little better all the time.
It can’t get more worse!”

- The Beatles

CONTINUOUS SECURITY

Continuous Delivery Amsterdam - October 2017



HELLO!

I am Arjan Gelderblom

I can be reached at

✉ a.gelderblom@first8.nl

✍ <https://keybase.io/bloged>



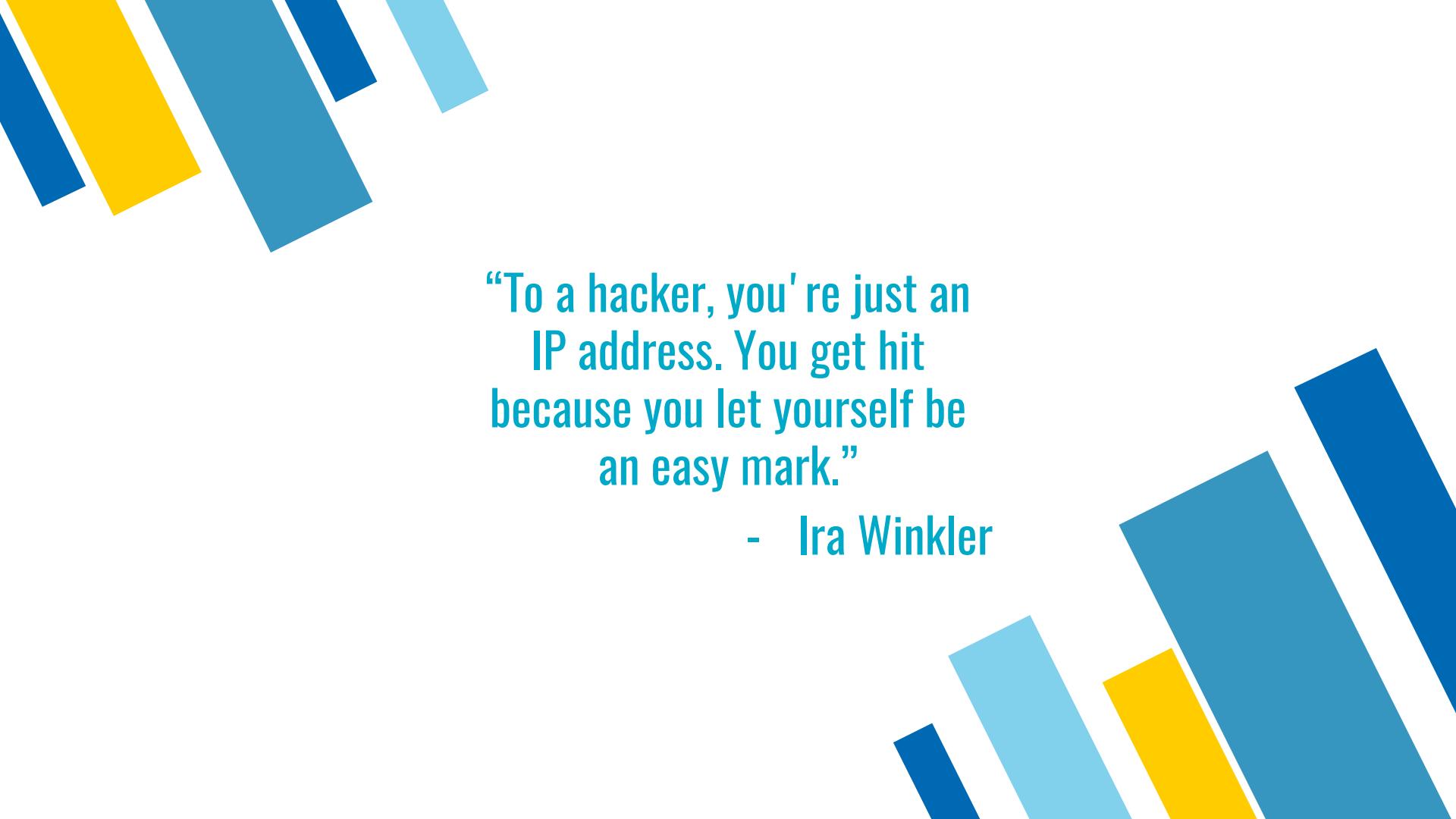


FIRST 8



WHY?

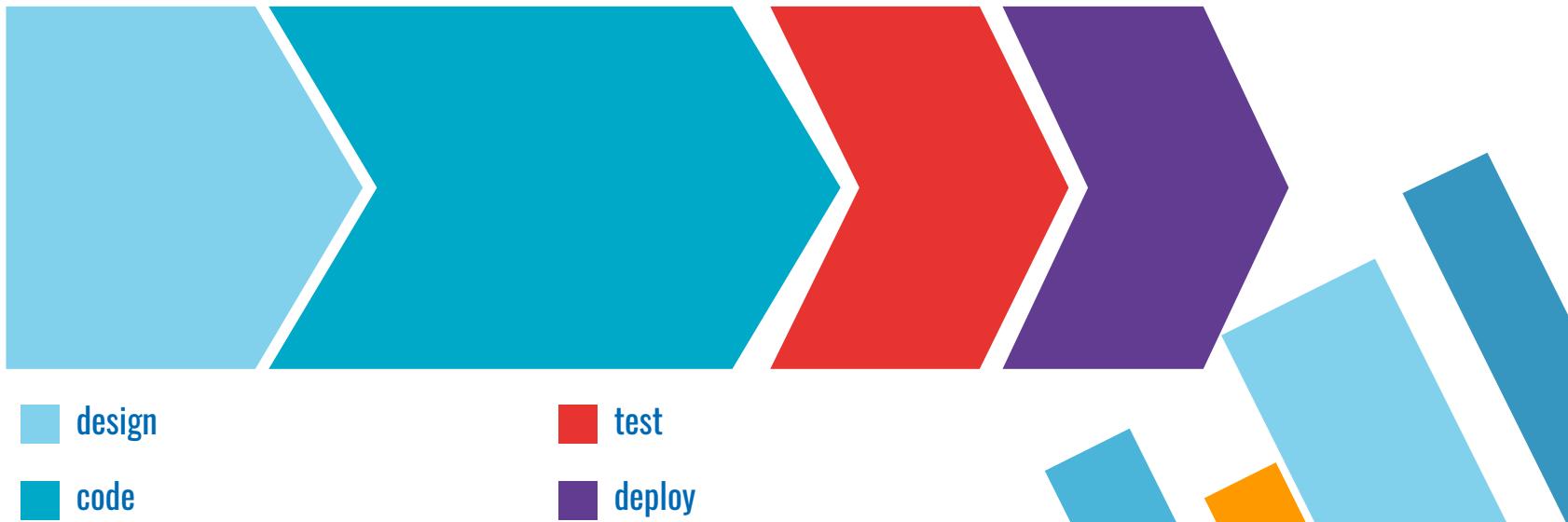
Why burden developers with security?



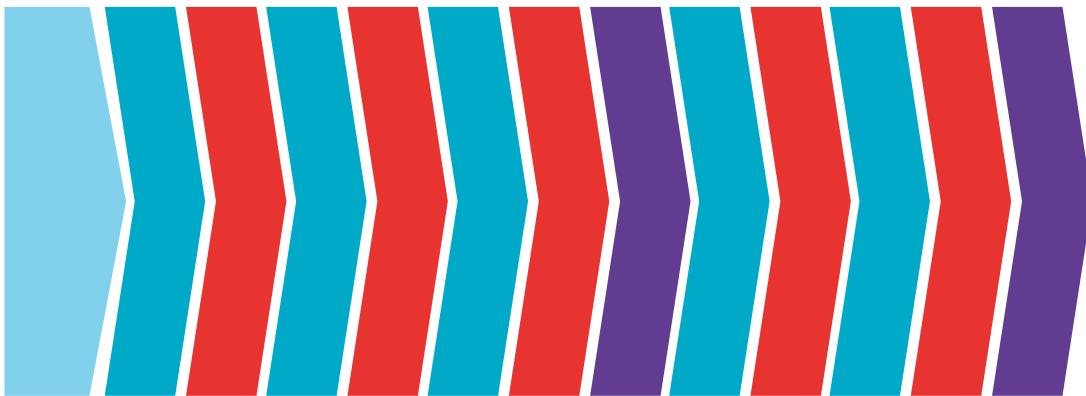
“To a hacker, you're just an IP address. You get hit because you let yourself be an easy mark.”

- Ira Winkler

Software Development Life Cycle



Software Development Life Cycle



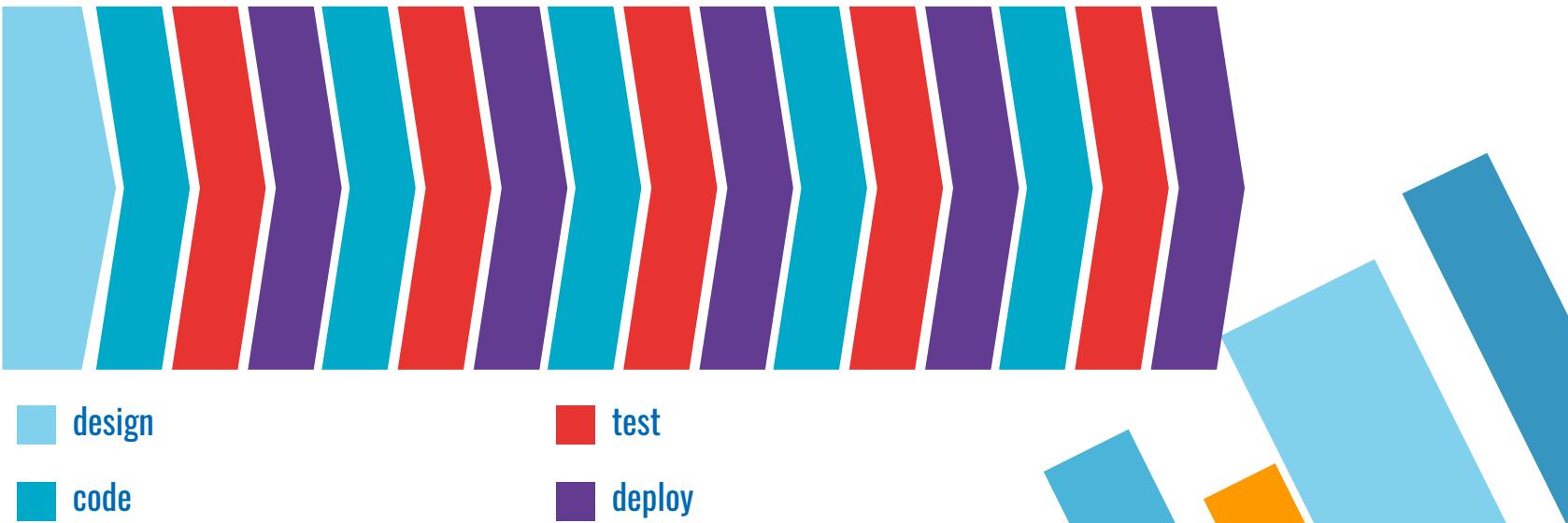
design

code

test

deploy

Software Development Life Cycle



DEVSECOPS

Adding Sec to DevOps



stack overflow

Secure or not?

```
public static int stringCompare(String orig, String input) {  
    char[] charArray1 = orig.toCharArray();  
    char[] charArray2 = input.toCharArray();  
  
    int length = charArray2.length;  
  
    int k = 0;  
    while (k < lim) {  
        if (charArray1[k] != charArray2[k]) {  
            return charArray1[k] - charArray2[k];  
        }  
        k++;  
    }  
    return 0;  
}
```

STARTING POINT

The Bodgeit Store

The Bodgeit Store

We bodge it, so you don't have to!

About Us Contact Us Login Your Basket Search

Our Best Deals!

Product	Type	Price
Bonzo dog doo dah	Doodahs	Rs.2.4
TGJ GGG	Thingamajigs	Rs.2.1
TGJ HHI	Thingamajigs	Rs.2.1
Thingie 3	Thingies	Rs.3.2
Thingie 2	Thingies	Rs.3.1
Whatsit called	Whabisits	Rs.4.1
Mindblank	Whatchamacallits	Rs.1.1
GZ XT4	Gizmos	Rs.4.4
TGJ GGG	Thingamajigs	Rs.2.6
Mindblank	Whatchamacallits	Rs.1.1

OUR INITIAL PIPELINE





SOURCE CODE

You Built a Slack Bot

TO READ YOUR TEAM THE NEWS

and It Told Everyone Everything

Executable File

```
1 #!/bin/ba
```

```
"text": "<!here|@here> You can use my email for the XXXXXXX, and `AwezGrowth` as the password.",  
"permalink": "https://xxxxxx.slack.com/archives/dev-growth/p14573712121219",  
"user": "U06A19PDF",  
"username": "flarsson",
```

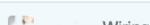
```
{"type": "message", "user": "U0552AAL9", "username": "way", "ts": "1450309434.000164", "text": "<@U01AUU  
A2BA>: what's the vimeo password again?", "channel": "
```

```
"next": {"user": "U01AUUA2BA", "username": "jen", "ts": "1450309910.000165", "type": "message", "text": "  
banana12"}
```

'8d408"

Tree: 92 16...

asana-task-bot / Procfile



Wiring

1 contributor

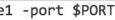
8 heroku config:add HUBOT_SLACK_TOKEN="xoxp-2446364950-2445644913-25778

3a"

```
{"title": "", "value": "hey there! to connect to our database, here is the connection info. Host:  
X.X.X.X Username: fala-ade23 password: csAdd12dsw Database: dms_all_125", "short": false}
```

2 lines (1 sloc) | 139 Bytes

Raw Blame History



```
1 web: asana-task-bot -slack-key xoxp-2182767778-3338739518-177355$
```

```
-asana-key 0/e7e6e2cb8cd646
```

```
e1 -port $PORT
```

The sensitive information in these examples has been modified or redacted



gitleaks

Scanning source control.

<https://github.com/kootenpv/gitleaks>



gittyleaks

```
node {
    stage('gittyleaks') {
        sh 'export LC_ALL=C'
        sh 'gittyleaks -l git@github.com:psiinon/bodgeit.git'
    }
}
```





gittyleaks

```
agelderblom@asterix:~/tmp.opentechday/bdd-security$ gittyleaks -l git@github.com:psiinon/bodgeit.git
```

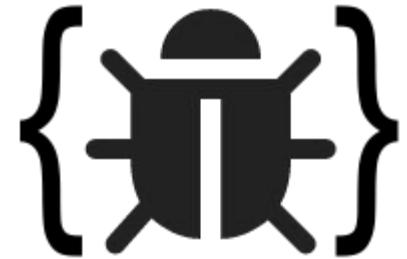


<https://asciinema.org/a/05zYKyQk008iidwxpPlW2jI8z>



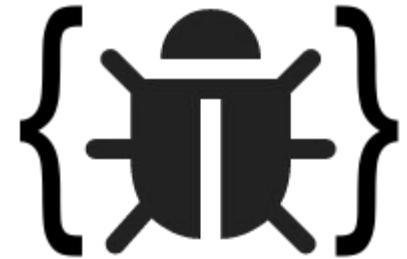
FindBugs + FindSecBugs

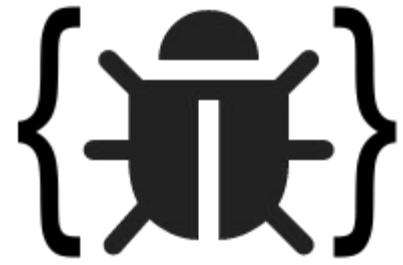
Static code analysis



FindBugs + FindSecBugs

```
node {
    stage('findbugs') {
        sh 'findbugs -textui target/project.jar'
    }
}
```

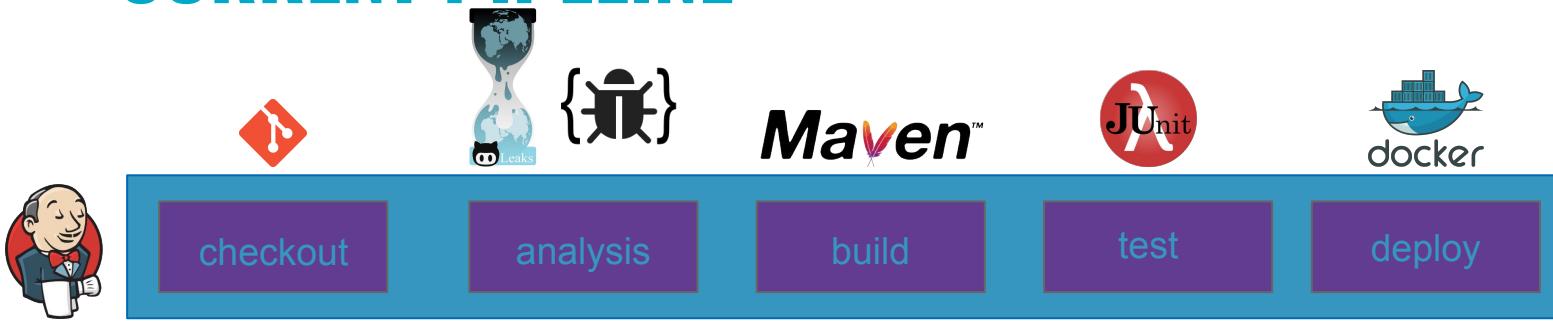




FindBugs + FindSecBugs

```
M D SF: Switch statement found in org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding.getNullDefault() where default case is missing. At SourceTypeBinding.java:[lines 1329-1335]
M D SF: Switch statement found in org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding.getNullDefault() where one case falls through to the next case. At SourceTypeBinding.java:[lines 1331-1334]
M V EI2: new org.eclipse.jdt.internal.compiler.ast.FieldReference(char[], long) may expose internal representation by storing an externally mutable object into FieldReference.token At FieldReference.java:[line 63]
M D SF: Switch statement found in org.eclipse.jdt.internal.compiler.ast.FieldReference.postConversionType(Scope) where default case is missing. At FieldReference.java:[lines 566-589]
M D SF: Switch statement found in org.eclipse.jdt.internal.compiler.ast.FieldReference.resolveType(BlockScope) where default case is missing. At FieldReference.java:[lines 645-651]
M D RCN: Redundant null check of synthLocal, which is known to be non-null in org.eclipse.jdt.internal.compiler.lookup.NestedTypeBinding.addSyntheticArgumentAndField(ReferenceBinding) Redundant null check at NestedTypeBinding.java:[line 121]
M V EI: org.eclipse.jdt.internal.compiler.lookup.NestedTypeBinding.syntheticEnclosingInstances() may expose internal representation by returning NestedTypeBinding.enclosingInstances At NestedTypeBinding.java:[line 234]
M V EI: org.eclipse.jdt.internal.compiler.lookup.NestedTypeBinding.syntheticOuterLocalVariables() may expose internal representation by returning NestedTypeBinding.outerLocalVariables At NestedTypeBinding.java:[line 255]
M V EI: org.eclipse.jdt.internal.compiler.lookup.NestedTypeBinding.syntheticEnclosingInstanceTypes() may expose internal representation by returning NestedTypeBinding.enclosingTypes At NestedTypeBinding.java:[line 250]
M V EI: org.eclipse.jdt.internal.compiler.lookup.ElementValuePair.getName() may expose internal representation by returning ElementValuePair.name At ElementValuePair.java:[line 98]
M V EI2: new org.eclipse.jdt.internal.compiler.lookup.ElementValuePair(char[], Object, MethodBinding) may expose internal representation by storing an externally mutable object into ElementValuePair.name At ElementValuePair.java:[line 89]
M B BEI: Check for significant bitwise operation in org.eclipse.jdt.internal.compiler.lookup.ElementValuePair.getValue(Expression) At ElementValuePair.java:[line 77]
M V EI2: new org.eclipse.jdt.internal.compiler.lookup.AnnotationBinding(annotationBinding, ElementValuePair[]) may expose internal representation by storing an externally mutable object into AnnotationBinding.pairs At Annotationbinding.java:[line 184]
M V EI: org.eclipse.jdt.internal.compiler.lookup.AnnotationBinding.getElementValuePairs() may expose internal representation by returning AnnotationBinding.pairs At AnnotationBinding.java:[line 215]
M V EI: org.eclipse.jdt.internal.compiler.lookup.LocalTypeBinding.constantPoolName() may expose internal representation by returning LocalTypeBinding.constantPoolName At LocalTypeBinding.java:[line 153]
M V EI: org.eclipse.jdt.internal.compiler.lookup.LocalTypeBinding.sourceName() may expose internal representation by returning LocalTypeBinding.sourceName At LocalTypeBinding.java:[line 284]
M V EI2: org.eclipse.jdt.internal.compiler.lookup.LocalTypeBinding.setConstantPoolName(char[]) may expose internal representation by storing an externally mutable object into LocalTypeBinding.constantPoolName At LocalTypeBinding.java:[line 254]
M V EI: org.eclipse.jdt.internal.compiler.lookup.BinaryTypeBinding.availableMethods() may expose internal representation by returning BinaryTypeBinding.methods At BinaryTypeBinding.java:[line 345]
M V EI: org.eclipse.jdt.internal.compiler.lookup.BinaryTypeBinding.typeVariables() may expose internal representation by returning BinaryTypeBinding.typeVariables At BinaryTypeBinding.java:[line 1821]
M V EI: org.eclipse.jdt.internal.compiler.lookup.BinaryTypeBinding.fields() may expose internal representation by returning BinaryTypeBinding.fields At BinaryTypeBinding.java:[line 910]
M V EI: org.eclipse.jdt.internal.compiler.lookup.BinaryTypeBinding.methods() may expose internal representation by returning BinaryTypeBinding.methods At BinaryTypeBinding.java:[line 1352]
M V EI: org.eclipse.jdt.internal.compiler.lookup.BinaryTypeBinding.memberTypes() may expose internal representation by returning BinaryTypeBinding.memberTypes At BinaryTypeBinding.java:[line 1324]
M V EI: org.eclipse.jdt.internal.compiler.lookup.BinaryTypeBinding.superInterfaces() may expose internal representation by returning BinaryTypeBinding.superInterfaces At BinaryTypeBinding.java:[line 1791]
M V EI: org.eclipse.jdt.internal.compiler.lookup.BinaryTypeBinding.unResolvedFields() may expose internal representation by returning BinaryTypeBinding.fields At BinaryTypeBinding.java:[line 1996]
M V EI: org.eclipse.jdt.internal.compiler.lookup.BinaryTypeBinding.availableFields() may expose internal representation by returning BinaryTypeBinding.fields At BinaryTypeBinding.java:[line 285]
M D SF: Switch statement found in org.eclipse.jdt.internal.compiler.lookup.BinaryTypeBinding.scanTypeForNullDefaultAnnotation(BinaryType, PackageBinding, BinaryTypeBinding) where default case is missing At BinaryTypeBinding.java:[lines 1683-1688]
M V EI2: new org.eclipse.jdt.internal.compiler.ast.MemberValuePair(char[], int, int, Expression) may expose internal representation by storing an externally mutable object into MemberValuePair.name At MemberValuePair.java:[line 42]
M V EI: org.eclipse.jdt.internal.compiler.ast.SingleMemberAnnotation.memberValuePairs() may expose internal representation by returning SingleMemberAnnotation.singlePairs At SingleMemberAnnotation.java:[line 50]
H C Rpc: Repeated conditional test in org.apache.tomcat.websocket.WsSession.removeMessageHandler(MessageHandler) At WsSession.java:[line 315]
H C Rpc: Repeated conditional test in org.apache.tomcat.websocket.WsSession.removeMessageHandler(MessageHandler) At WsSession.java:[line 321]
```

CURRENT PIPELINE



TESTING



Ever wanted to hack a University?

**79940 (234 countries)
Moodle sites registered**



ZAPROXY

ZED Attack Proxy



ZAPROXY

ZED Attack Proxy

```
node {  
    stage('zap-baseline') {  
        sh 'docker run -t owasp/zap2docker-stable zap-baseline.py -t http://172.17.0.2:8080/bodgeit'  
    }  
}
```



ZAPROXY

ZED Attack Proxy

```
gelderblom@asterix:~$ docker run -t owasp/zap2docker-stable zap-baseline.py -t http://172.17.0.2:8080/bodgeit
-XSERVTransmKdR: ERROR: euid != 0, directory '/tmp/X11-unix' will not be created.
Apr 19, 2017 6:29:17 PM java.util.prefs.FileSystemPreferences$1 run
INFO: Created user preferences directory.
```





Be Mean To Your Code And Like It

gauntlet

```
@slow
Feature: simple nmap attack (sanity check)

Background:
  Given "nmap" is installed
  And the following profile:
    | name | value      |
    | hostname | 172.17.0.2 |

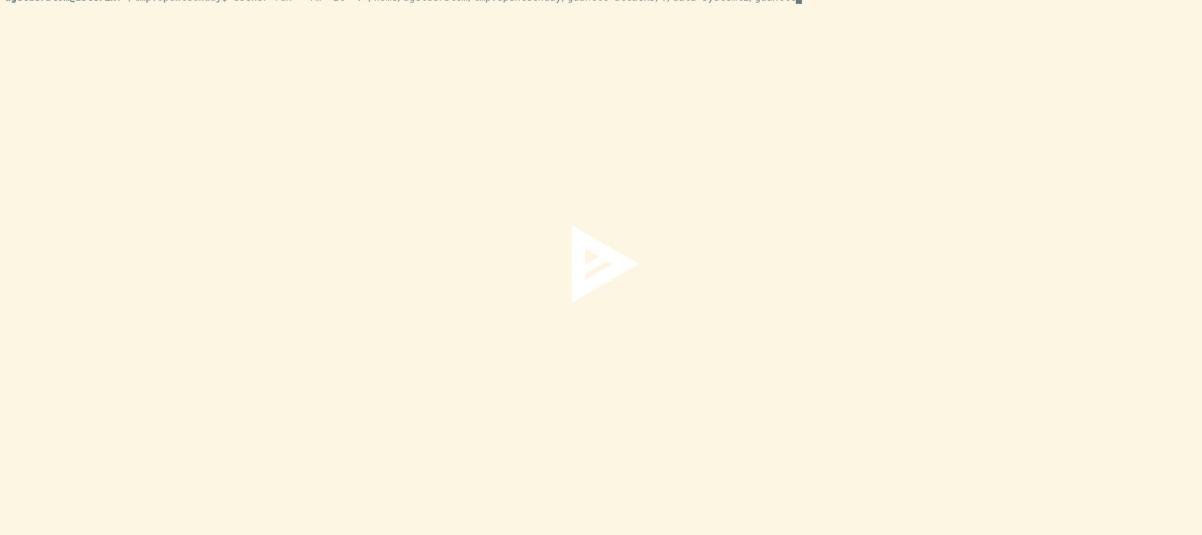
Scenario: Verify server is available on standard web ports
  When I launch an "nmap" attack with:
  """
    nmap -p 8080,443 <hostname>
  """
  Then the output should match /8080.tcp\s+open/
  And the output should not match:
  """
    443/tcp\s+open
  """
  """
```

gauntlet

```
node {
    stage('gauntlet') {
        sh 'gauntlet custom/*/*.attack'
    }
}
```

gauntlet

```
agelderblom@asterix:~/tmp.opentechday$ docker run --rm -it -v /home/agelderblom/tmp.opentechday/gauntlet-attacks:/data systemli/gauntlet
```





inspec

Inspect Your Infrastructure



inspec

```
title '/port-8080 open'

# you add controls here
control "port 8080" do
  impact 0.7
  title "Port 8080 should be listening"
  desc "Checking the port public port ..."
  tag data: "port"
  tag "security"
  ref "Document A-12", url: 'http://...'

  describe port(8080) do
    it { should be_listening }
  end
end
```

A unique ID for this control
The criticality, if this control fails.
A human-readable title
Describe why this is needed
A tag allows you to associate key
information to the test
Additional references

Actual test

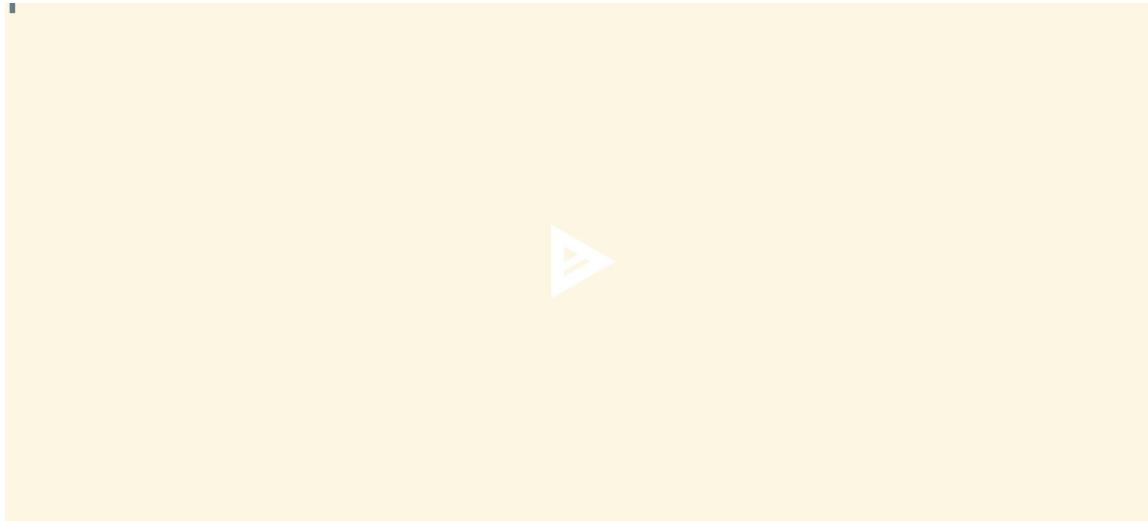


inspec

```
node {
  stage('inspec') {
    sh 'inspec exec inspec/example/ -t docker://f782c7f0a177'
  }
}
```



inspec





BDD Security

Security Testing Framework

@cwe-295-auth

Scenario: Present the login form itself over an HTTPS connection
Given a new browser instance
And the client/browser is configured to use an intercepting proxy
And the proxy logs are cleared
And the login page is displayed
And the HTTP request-response containing the login form
Then the protocol should be HTTPS



BDD-Security

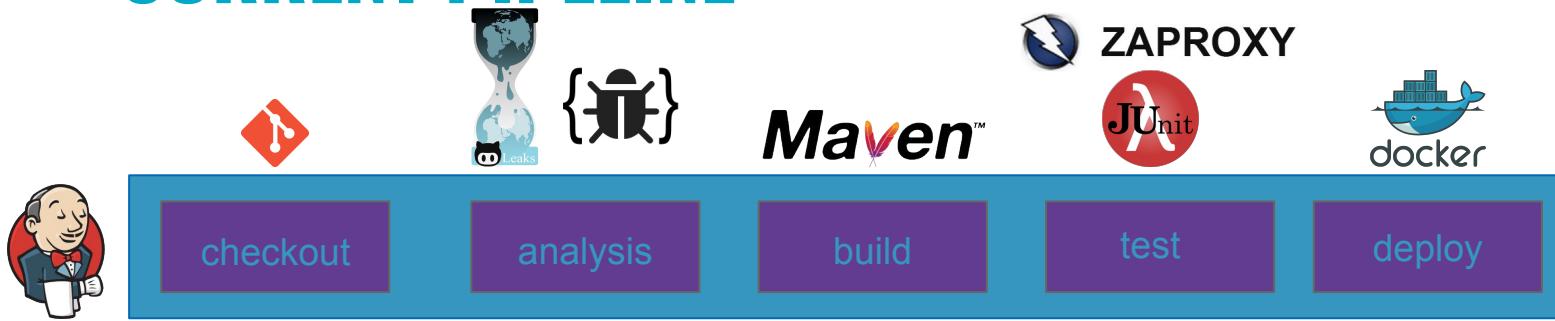
```
144156 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Format String Error
144156 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin CRLF Injection
144156 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Parameter Tampering
144156 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Cross Site Scripting (Persistent) - Prime
144156 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Cross Site Scripting (Persistent) - Spider
144156 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Script Active Scan Rules
144156 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Source Code Disclosure - SVN
144156 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Source Code Disclosure - /WEB-INF folder
144156 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Remote Code Execution - Shell Shock
144156 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Anti CSRF Tokens Scanner
144156 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Heartbleed OpenSSL Vulnerability
144156 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Cross-Domain Misconfiguration
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Source Code Disclosure - CVE-2012-1823
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Remote Code Execution - CVE-2012-1823
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Session Fixation
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin SQL Injection - MySQL
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin SQL Injection - Hypersonic SQL
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin SQL Injection - Oracle
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin "OR" Injection - PostgreSQL
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin > Injection
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Ml Entity Attack
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin <INFO> padding Oracle
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin <session Language Injection
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin <backup File Disclosure
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Integer Overflow Error
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Insecure HTTP Method
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin HTTP Parameter Pollution scanner
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Possible Username Enumeration
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Source Code Disclosure - Git
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Source Code Disclosure - File Inclusion
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Httpoxy - Proxy Header Misuse
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin LDAP Injection
144157 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin SQL Injection - SQLite
144158 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Example Active Scanner: Denial of Service
144158 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Active scan rule which loads data from a file
144158 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Relative Path Confusion
144158 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin User Agent Fuzzer
144158 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin HTTP Only Site
144158 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Proxy Disclosure
144158 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin HTTPS Content Available via HTTP
144158 [ZAP-ProxyThread-74] INFO org.parosproxy.paros.core.scanner.PluginFactory - loaded plugin Cookie Slack Detector
> Building 84% > :test > 185 tests completed, 28 failed, 112 skipped
```

beaker

Cloud enabled acceptance testing



CURRENT PIPELINE



EXTERNAL DEPENDENCIES



EQUIFAX®

The logo consists of the word "EQUIFAX" in a bold, red, sans-serif font. A registered trademark symbol (®) is positioned at the top right of the "X". Above the text, there are four slanted bars in light blue, medium blue, dark blue, and black, creating a dynamic, upward-moving effect.

OpenVAS

Vulnerability scanning and vulnerability management



Dashboard

Tasks by Severity Class (Total: 0)



Tasks by status (Total: 0)



CVEs by creation time (Total: 0)

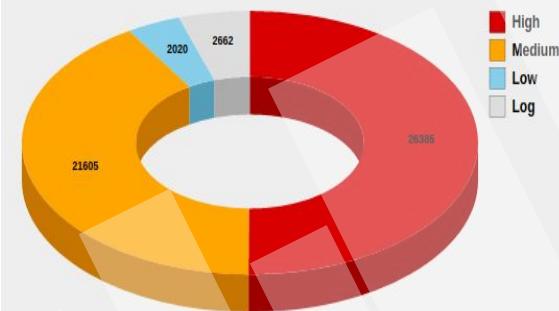
CVEs Total CVEs

Want big impact?
USE BIG IMAGE.

Hosts topology

No hosts with topology selected

NVTs by Severity Class (Total: 52672)



cvechecker

Vulnerability scanning and vulnerability management

cvechecker

```
node {
    stage('cvechecker') {
        sh 'find / -type f -perm -o+x > scanlist.txt'
        sh 'echo "/proc/version" >> scanlist.txt'
        sh 'cvechecker -b scanlist.txt'
        sh 'cvechecker -r'
    }
}
```

cvechecker

```
# find / -type f -perm -o+x > scanlist.txt; echo "/proc/version" >> scanlist.txt; cvechecker -b scanlist.txt; cvechecker -r
find: /proc/2998/task/2998/rfd[5]: No such file or directory
find: /proc/2998/task/2998/rfd[5]: No such file or directory
find: /proc/2998/rfd[5]: No such file or directory
find: /proc/2998/rfd[5]: No such file or directory
Seems like you have a root shell!
- Found watch for /usr/bin/rpcgen: cpe:/a:gnu:glibc:2.19::;
- Found watch for /usr/bin/mkfifo: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/true: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/chcon: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/perlpp: cpe:/a:perl:perl:5.26.2::;
- Found watch for /usr/bin/perl: cpe:/a:perl:perl:5.26.2::;
- Found watch for /usr/bin/gencat: cpe:/a:gnu:glibc:2.19::;
- Found watch for /usr/bin/ld: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/zip: cpe:/a:info:zip:unzip:1.0::;
- Found watch for /usr/bin/unzip: cpe:/a:info:zip:unzip:1.0::;
- Found watch for /usr/bin/nohup: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/tar: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/tee: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/chattr: cpe:/a:ext2:filesystems_utilities:e2fsprogs:1.42.12::;
- Found watch for /usr/bin/du: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/gpg: cpe:/a:gnupg:gnupg:1.4.18::;
- Found watch for /usr/bin/gpg: cpe:/a:gnupg:gnupg:1.4.18::;
- Found watch for /usr/bin/du: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/as: cpe:/a:gnu:binutils:2.25::;
- Found watch for /usr/bin/join: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/ln: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/install: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/cut: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/mkdir: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/make: cpe:/a:gnu:maked4.0::;
- Found watch for /usr/bin/unzip: cpe:/a:info:zip:unzip:2.3::;
- Found watch for /usr/bin/unzip: cpe:/a:info:zip:unzip:2.3::;
- Found watch for /usr/bin/hostname: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/link: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/mktemp: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/sprintf: cpe:/a:gnu:glibc:2.19::;
- Found watch for /usr/bin/uniq: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/pwd: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/paste: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/oldfind: cpe:/a:gnu:findutils:4.4.2::;
- Found watch for /usr/bin/find: cpe:/a:gnu:findutils:4.4.2::;
- Found watch for /usr/bin/nice: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/ls: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/ls: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/ln: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/unlink: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/ptx: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/patch: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/whos: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/com: cpe:/a:gnu:coreutils:0.23::;
- Found watch for /usr/bin/basename: cpe:/a:gnu:glibc:2.19::;
- Found watch for /usr/bin/uname: cpe:/a:gnu:coreutils:0.23::;
```



alpine
linux

Alpine Linux

```
/asciinema # find / -type t -perm -o+x > scanlist.txt; echo >/proc/version >> scanlist.txt; cvechecker -D scanlist.txt; cvechecker -r
```



OWASP Dependency Check

OWASP Dependency Check

```
node {  
    stage('cvechecker') {  
        sh 'mvn org.owasp:dependency-check-maven:1.4.5:aggregate'  
    }  
}
```

OWASP Dependency Check

```
gelderblom@asterix:~/tmp.opentechday/demo-insecure-project$ mvn org.owasp:dependency-check-maven:1.4.5:aggregate
[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] Building Demo Insecure Project 1.0.0-SNAPSHOT
[INFO] -----
[INFO] ... dependency-check-maven:1.4.5:aggregate (default-cli) @ demo-insecure-project ...
[INFO] Checking for updates
[INFO] Skipping NVD check since last check was within 4 hours.
```



<http://www.networkworld.com/article/3162232/security/that-heartbleed-problem-may-be-more-pervasive-than-you-think.html>

Updates

Base images & dependencies

OPEN INFORMATION



OWASP
Open Web Application
Security Project

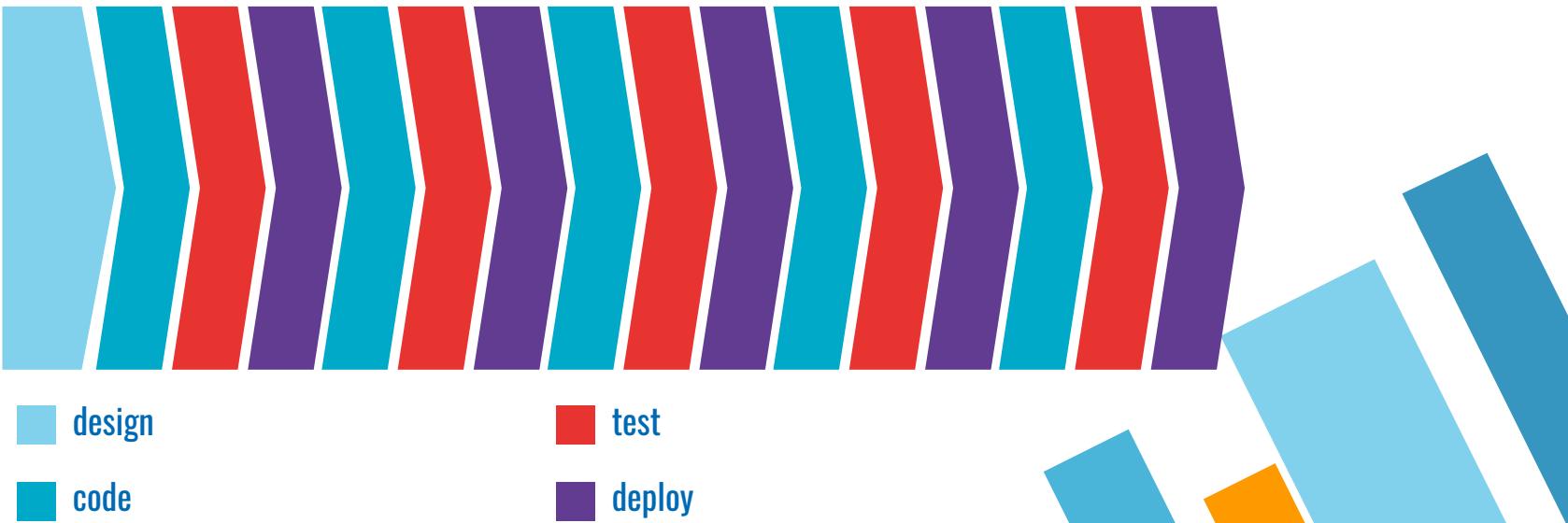
OWASP Top 10 – 2013 (Previous)	OWASP Top 10 – 2017 (New)
A1 – Injection	A1 – Injection
A2 – Broken Authentication and Session Management	A2 – Broken Authentication and Session Management
A3 – Cross-Site Scripting (XSS)	A3 – Cross-Site Scripting (XSS)
A4 – Insecure Direct Object References - Merged with A7	A4 – Broken Access Control (Original category in 2003/2004)
A5 – Security Misconfiguration	A5 – Security Misconfiguration
A6 – Sensitive Data Exposure	A6 – Sensitive Data Exposure
A7 – Missing Function Level Access Control - Merged with A4	A7 – Insufficient Attack Protection (NEW)
A8 – Cross-Site Request Forgery (CSRF)	A8 – Cross-Site Request Forgery (CSRF)
A9 – Using Components with Known Vulnerabilities	A9 – Using Components with Known Vulnerabilities
A10 – Unvalidated Redirects and Forwards - Dropped	A10 – Underprotected APIs (NEW)

Training

OWASP WebGoat

**OWASP
SecurityShepherd**

Software Development Life Cycle



TAKEAWAYS



THANKS!

Any questions?

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💻 <https://www.first8.nl/nieuws-overzicht>

meetup