

Chapter Leader & Evangelist OWASP France



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http://www.google.fr/#q=sebastien gioria

Innovation and Technology @Advens && Application Security Expert



► OWASP France Leader & Founder & Evangelist,







CLUSIE

Proud father of youngs kids trying to hack my digital life.

Twitter: @SPoint/@OWASP_France

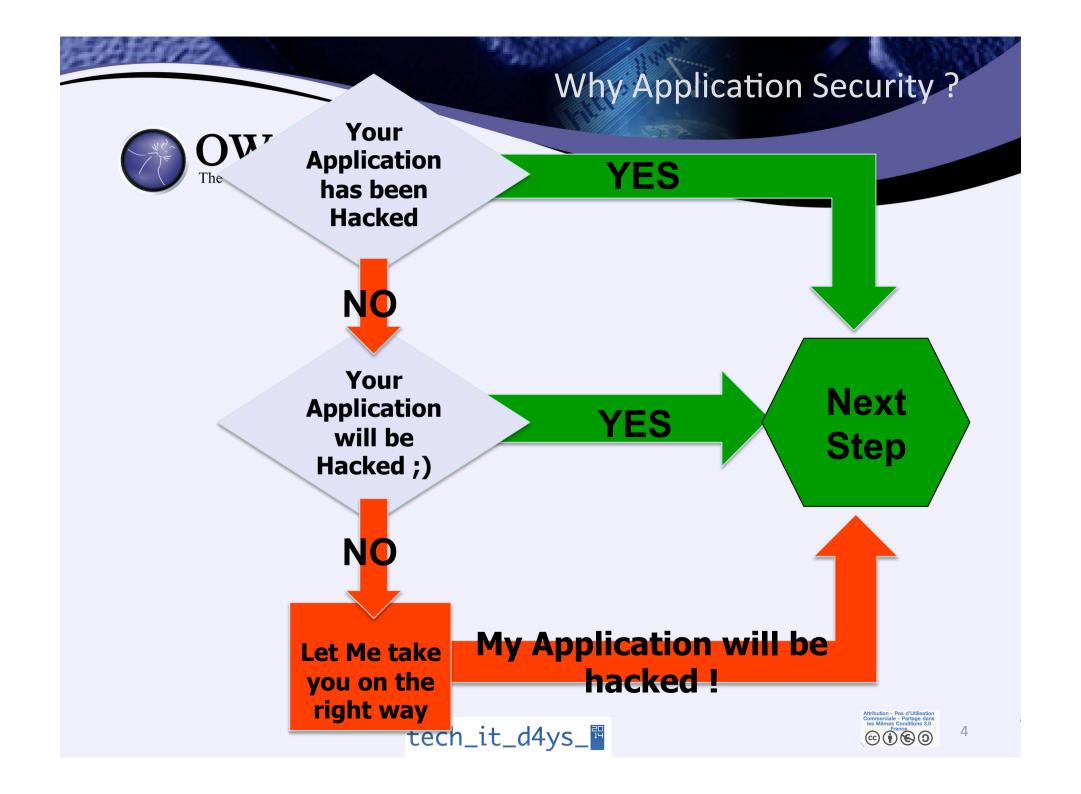




Agenda



- Application Security :
 - where we are (no bullshit)
 - where we are (hopefully) going ?
- Open Web Application Security Project ?
- Major projects you can use



SQL in Java



http://stackoverflow.com/guestions/9123084/how-to-execute-a-sql-statement-with-a-variable-as-where

Stack Overflow is a question and answer site for professional and enthusiast programmers. It's 100% free, no registration required.

How to execute a SQL statement with a variable as WHERE?



```
int userid = take user input;
```

I have some Java code like

And then execute following sql statement,

```
Class.forName(dbdriver);
conn = DriverManager.getConnection(url, username, password);
st = conn.createStatement();
st.executeUpdate("select * from person where uid = userid" );
```

Now, I don't know the returned result is <code>null.Ithink</code> where <code>uid = userid</code> is giving wrong result because it is searching for literal uid value "userid". Actually, I want to retrive information from person table about user provided uid values. Can anybody help me how to solve this?







http://www.advens.fr/blog/les-injections-sql-dans-les-applications-web-pourquoi-navancons-nous-pas



Game Over....



Did you develop Web Site?

Did you develop embeded products?

Did you develop smartphone applications?

 Did you have customers / partners over Internet ?

Why Application Security?

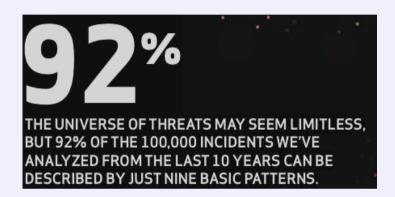


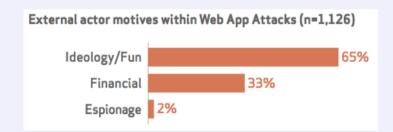
We are living in a Digital environment, in a Connected World

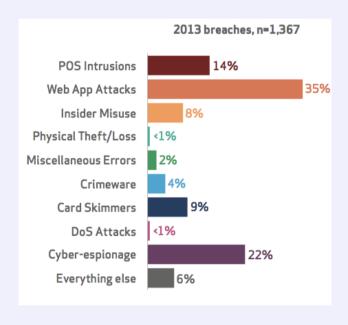


- ❖Most of websites vulnerable to attacks
- Important % of web-based Business (Services, Online Store, Self-care, Telcos, SCADA, ...)





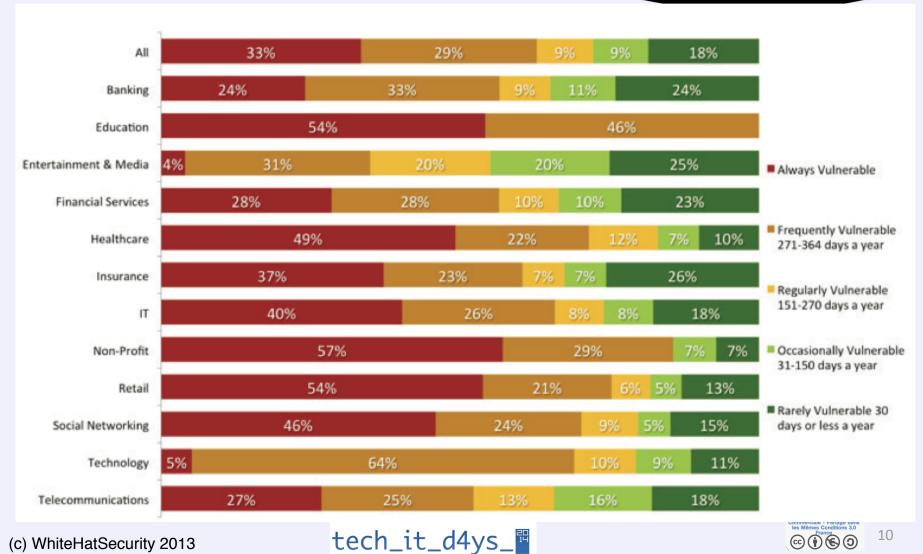




Who win?

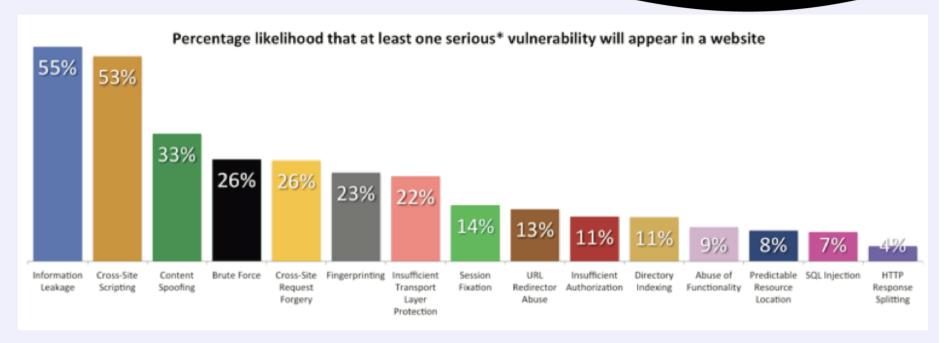


(c) WhiteHatSecurity 2013



Vulnerabilities?







Anything else?

What is OWASP



Mission Driven

Nonprofit | World Wide | Unbiased

OWASP does not endorse or recommend commercial products or services

What is OWASP



Community Driven

30,000 Mail List Participants
200 Active Chapters in 70 countries
1600+ Members, 56 Corporate Supporters
69 Academic Supporters

Around the World



200 Chapters, 1 600+ Members, 20 000+ Builders, Breakers and Defenders



What is OWASP



Quality Resources

200+ Projects

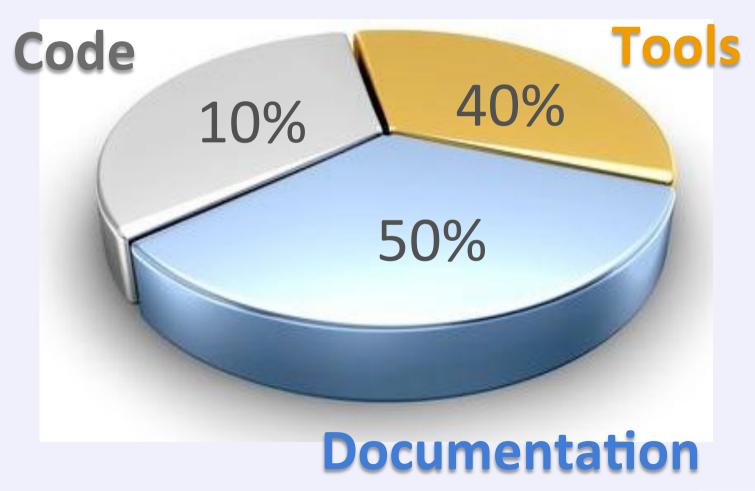
15,000+ downloads of tools, documentation 250,000+ unique visitors

800,000+ page views

(monthly)

Quality Resources





Security Lifecycle



A Vision for OWASP

Outreach

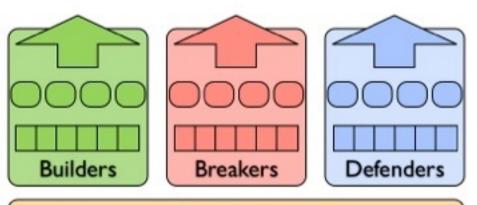
Projects

StakeHolders

Focus

Support

Platform



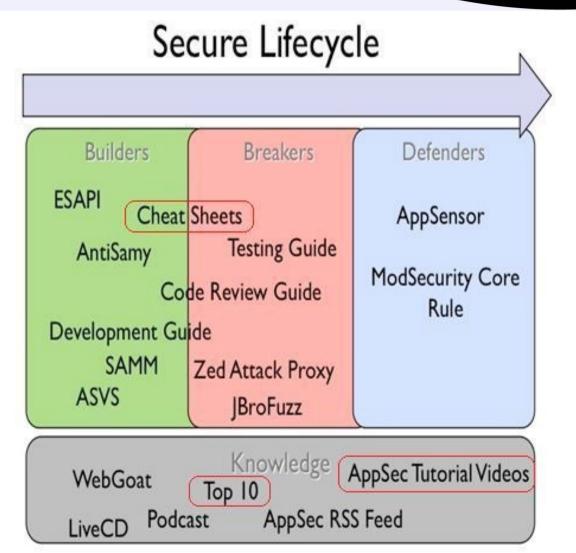
Global Committees

Board

OWASP

Security Resources







NEWS

A BLOG

A PODCAST

MEMBERSHIPS

MAILING LISTS

A NEWSLETTER

APPLE APP STORE

VIDEO TUTORIALS

TRAINING SESSIONS

SOCIAL NETWORKING

























OWASP Projects



Projects



 Welcome
 Project Inventory
 Project Task Force
 Online Resources
 Starting a New Project
 Project Assessments
 Brand Resources
 Terminology

 Sponsorships and Donations
 PM Information
 Contact US

OWASP Project Inventory

All OWASP tools, document, and code library projects are organized into the following categories: a

- Flagship Projects: The OWASP Flagship designation is given to projects that have demonstrated strategic
 value to OWASP and application security as a whole.
- Lab Projects: OWASP Labs projects represent projects that have produced an OWASP reviewed deliverable of value.
- Incubator Projects: OWASP Incubator projects represent the experimental playground where projects are still being fleshed out, ideas are still being proven, and development is still underway.

Welcome to the OWASP Global Projects Page

An OWASP project is a collection of related tasks that have a defined roadmap and team members. OWASP project leaders are responsible for defining the vision, roadmap, and tasks for the project. The project leader also promotes the project and builds the team. OWASP currently has over 142 active projects, and new project applications are submitted every week.

This is one of the most popular divisions of OWASP as it gives members an opportunity to freely test theories and ideas with the professional advice and support of the OWASP community. Every project has an associated mail list. You can view all the lists, examine their archives, and subscribe to any project by visiting the OWASP Project Mailing Lists page. A summary of recent project announcements is available on the OWASP Updates page.

Download the OWASP Project Handbook 2014

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FIND OUT MORE ABOUT OUR OWASP PROJECT OF THE MONTH!







OWASP Top10 2013



A1: Injection

A2: Violation de
Gestion
d'authentification et
de session

A3: Cross Site Scripting (XSS)

A4:Référence directe non sécurisée à un objet

A5: Mauvaise configuration sécurité

A6 : Exposition de données sensibles

A7: Manque de contrôle d'accès fonctionnel

A8: Cross Site Request Forgery (CSRF)

A9: Utilisation de composants avec des vulnérabilités connues

A10: Redirections et transferts non validés

ex-A9(transport non sécurisé) + A7(Stockage crypto)



Cheat Sheets



Developer Cheat Sheets

- PHP Security Cheat Sheet
- OWASP Top Ten Cheat Sheet
- Authentication Cheat Sheet
- •Cross-Site Request Forgery (CSRF) Prevention Cheat Sheet
 •Access Control Cheat Sheet
- Cryptographic Storage Cheat Sheet
- •Input Validation Cheat Sheet
- *XSS (Cross Site Scripting) Prevention Cheat Sheet
- •DOM based XSS Prevention Cheat Sheet
- Forgot Password Cheat Sheet
- •Query Parameterization Cheat Sheet
- **SQL** Injection Prevention Cheat Sheet
- Session Management Cheat Sheet
- HTML5 Security Cheat Sheet
- Transport Layer Protection Cheat Sheet
- Web Service Security Cheat Sheet
- Logging Cheat Sheet
- JAAS Cheat Sheet

Mobile Cheat Sheets

- IOS Developer Cheat Sheet
- Mobile Jailbreaking Cheat Sheet

Draft Cheat Sheets

- REST Security Cheat Sheet
- Abridged XSS Prevention Cheat Sheet
- Password Storage Cheat Sheet
- Secure Coding Cheat Sheet
- Threat Modeling Cheat Sheet
- Clickjacking Cheat Sheet
- Virtual Patching Cheat Sheet
- Secure SDLC Cheat Sheet
- Web Application Security Testing Cheat Sheet
- Application Security Architecture Cheat Sheet

Enterprise Security API



Project Leader: Chris Schmidt, Chris.Schmidt@owasp.org

Purpose: A free, open source, web application security control library that

makes it easier for programmers to write lower-risk applications

Security controls that are included:

There are reference implementations for each of the following security controls:

- Authentication
- Access control
- Input validation
- Output encoding/escaping
- Cryptography
- Error handling and logging
- Communication security
- HTTP security
- Security configuration



Java HTML Sanitizer, Java Encoder



Project Leader: Mike Samuel Mike.samuel@owasp.org

Purpose: The OWASP HTML Sanitizer is a fast and easy to configure HTML Sanitizer written in Java which **lets you include HTML authored by third-parties in your web application** while protecting against **XSS**.

https://www.owasp.org/index.php/Category:OWASP Enterprise Security API

Project Leader: Jeff Ichnowski

Purpose: The OWASP Java Encoder is a Java 1.5+ simple-to-use drop-in high-performance encoder class with no dependencies and little baggage. This project will help Java web developers defend against Cross Site Scripting!

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





Java Encoder Project



Project Leader: Mike Samuel Mike.samuel@owasp.org

Purpose: The OWASP Java Encoder is a Java 1.5+ simple-to-use drop-in high-performance encoder class with no dependencies and little baggage. This project will help Java web developers defend against Cross Site Scripting!

https://www.owasp.org/index.php/OWASP Java Encoder Project





OWASP Top10 Mobile project



OWASP Mobile Top 10 Risks

M1 – Weak Server Side Controls M2 – Insecure Data Storage M3 - Insufficient Transport Layer Protection

M4 - Unintended Data Leakage

M5 - Poor Authorization and Authentication

M6 - Broken Cryptography M7 - Client Side Injection M8 - Security Decisions Via Untrusted Inputs

M9 - Improper Session Handling M10 - Lack of Binary Protections

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OWASP IoT Project



- The OWASP Internet of Things Top 10 2014 is as follows:
- <u>I1 Insecure Web Interface</u>
- <u>I2 Insufficient Authentication/Authorization</u>
- <u>I3 Insecure Network Services</u>
- I4 Lack of Transport Encryption
- <u>I5 Privacy Concerns</u>
- <u>I6 Insecure Cloud Interface</u>
- <u>I7 Insecure Mobile Interface</u>
- <u>I8 Insufficient Security Configurability</u>
- <u>19 Insecure Software/Firmware</u>
- <u>I10 Poor Physical Security</u>





Guides



Development Guide: comprehensive manual for designing, developing and deploying secure Web Applications and Web Services

Code Review Guide: mechanics of reviewing code for certain vulnerabilities & validation of proper security controls

Testing Guide: understand the what, why, when, where, and how of testing web applications

Application Security Verification Standard (ASVS): comprehensive manual for designing, verify the security of an application

https://www.owasp.org/index.php/Category:OWASP Guide Project

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

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

https://www.owasp.org/index.php/Category:OWASP Application Security Verification Standard Project

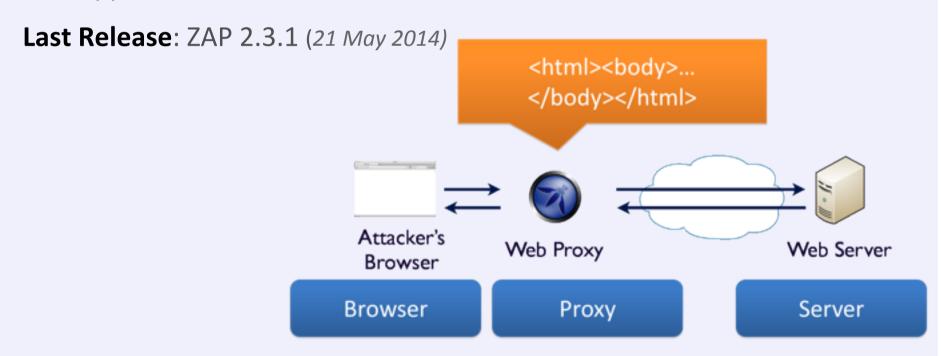


Zed Attack Proxy



Project Leader: Simon Bennetts (aka Psiinon), psiinon@gmail.com

Purpose: The Zed Attack Proxy (ZAP) provides automated scanners as well as a set of tools that allow you to find security vulnerabilities manually in web applications.



The OWASP Secure Software Contract Annex



Intended to help software developers and their clients negotiate important contractual terms and conditions related to the security of the software to be developed or delivered.

CONTEXT: Most contracts are silent on these issues, and the parties frequently have dramatically different views on what has actually been agreed to.

OBJECTIVE: Clearly define these terms is the best way to ensure that both parties can make informed decisions about how to proceed.

https://www.owasp.org/index.php/OWASP Secure Software Contract Annex

Dates



- 11 Septembre 2014 OWASP France Meeting Paris @Mozilla Office
 - Programme :
 - 18h30 : Ouverture des portes
 - 19h: Welcome by OWASP France et Mozilla
 - 19h15 : SonarQube pour la sécurité par Sébastien Gioria (OWASP France)
 - 19h45: Warning Ahead: Security Storms are Brewing in Your JavaScript Par Laurent Levi (Checkmarx) En Francais
 - 20h15 : OWASP News && Closing par Sébastien Gioria (OWASP France)
 - 20h30: Networking

http://www.eventbrite.fr/e/billets-owasp-france-meeting-septembre-2014-12738480137

- Application Security Forum Western Switzerland Yverdon les Bains 4/6 Novembre 2014
 - http://www.appsec-forum.ch/
- Club 27001 /Paris 25 Septembre 2014
 - Présentation de la norme ISO 27034

Soutenir l'OWASP



- Différentes solutions :
 - Membre Individuel: 50\$
 - Membre Entreprise: 5000 \$
 - Donation Libre
- Soutenir uniquement le chapitre France :

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- Single Meeting supporter
 - Nous offrir une salle de meeting!
 - Participer par un talk ou autre!
 - Donation simple
- Local Chapter supporter :
 - 500 \$ à 2000 \$

License









sebastien.gioria@owasp.org