

Owasp

Pierwszy kontakt

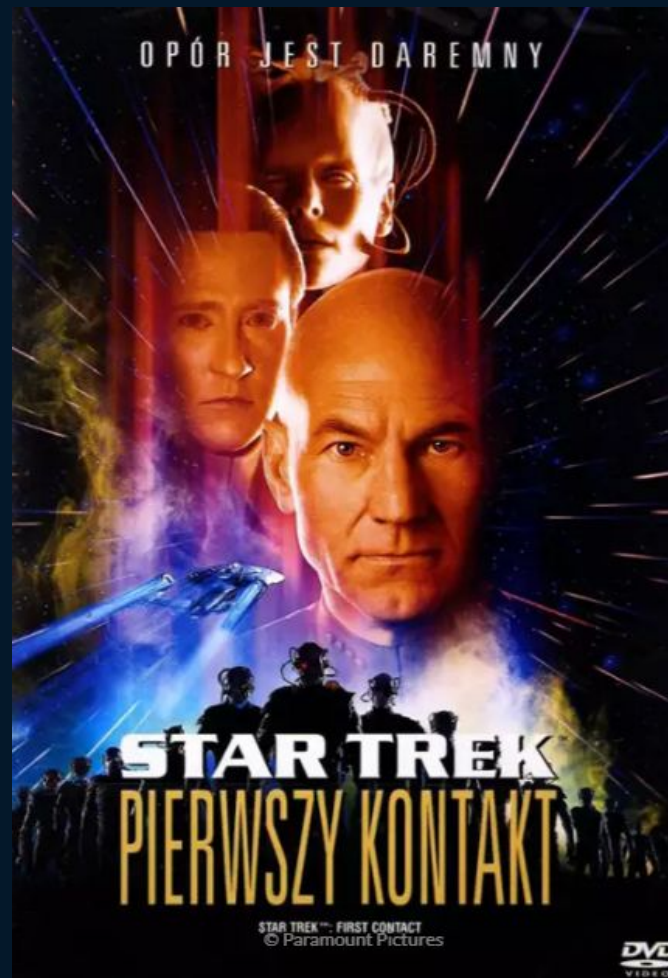
O mnie

- Z wykształcenia psycholog
 - Pracuję jako programistka
 - Rozwijam się w cybersecurity
-
- Fanka F1 i szydełkowania

<https://www.linkedin.com/in/lena-sedkiewicz/>
<https://lenasedkiewicz.com/>



Pierwszy kontakt

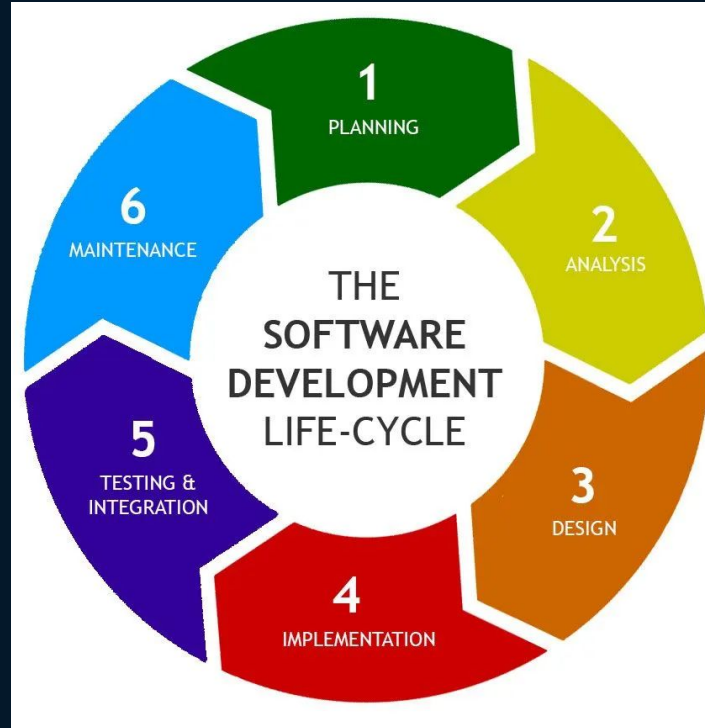


Pierwszy kontakt

- Teraźniejszość - na ziemi dominuje cywilizacja Borg
- Powrót w przeszłość - by naprawić teraźniejszość
- [SPOILER ALERT]



SDLC - Cykl życia oprogramowania



1. Planowanie

- Cel projektu
- Wymagania biznesowe
- Grupa docelowa

2. Analiza

- Analiza informacji z etapu planowania
- Wybór architektury / rozwiązań technicznych
- Specyfikacja techniczna

3. Projektowanie

- Opis modułów
- Przepływ danych
- Integracje od zewnętrznych dostawców

4. Implementacja

- Tworzenie produktu

5. Testowanie i integracja

- Testy automatyczne i manualne

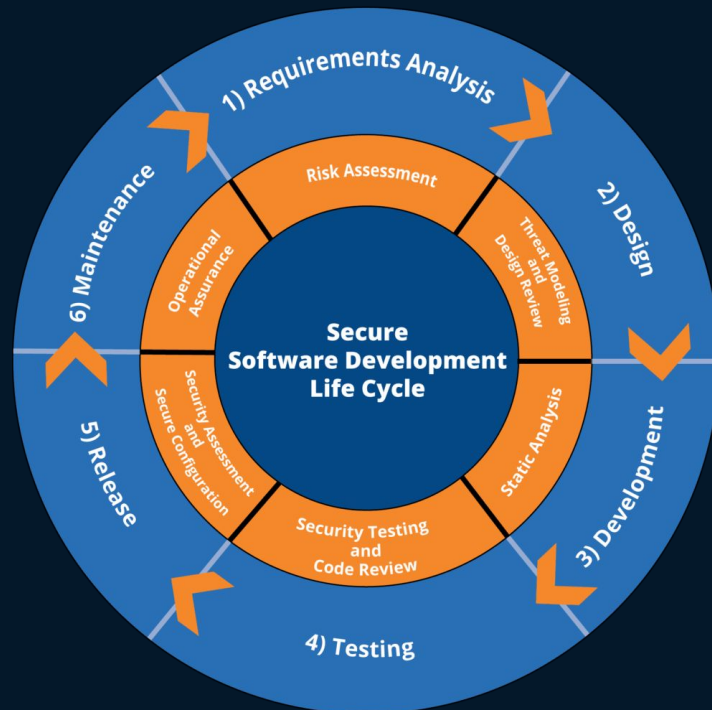
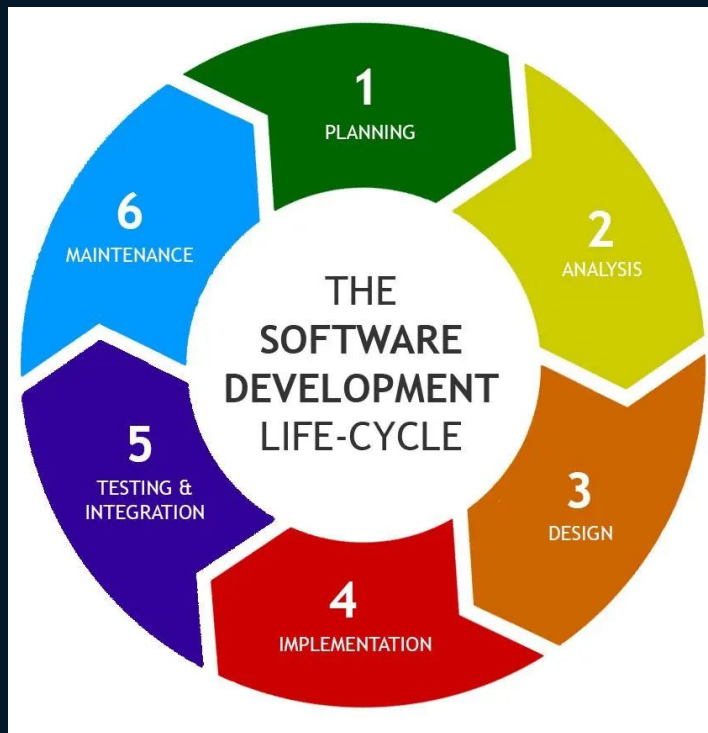
6. Utrzymanie

- Wersja alpha / beta aplikacji
- Wersja produkcyjna
- Utrzymanie



Star Trek VIII: Pierwszy kontakt (1996) © Paramount Pictures

SSDLC - Cykl życia bezpiecznego oprogramowania



1. Planowanie

- Identyfikacja ryzyka
- Ocena ryzyka
 - np. jakie dane będą przetwarzane i jak zapewnić bezpieczeństwo w ich przetwarzaniu
 - jakie zagrożenia niesie wybrany stack technologiczny / wybrane rozwiązania

2. Analiza

- Zdefiniowanie wymagań bezpieczeństwa dla rozwoju aplikacji

3. Projektowanie

- Modelowanie zagrożeń
 - identyfikacja zagrożeń i określenie sposobów ich zabezpieczenia (mitygacja)

4. Implementacja

- Tworzenie produktu zgodnie z wymogami z zakresu bezpieczeństwa
- Code review z perspektywy bezpieczeństwa
- SAST (analiza statyczna kodu)
 - Snyk
 - Semgrep
 - SonarQube

https://owasp.org/www-community/Source_Code_Analysis_Tools

5. Testowanie i integracja

- Testy bezpieczeństwa
- Ocena bezpieczeństwa aplikacji i konfiguracji
- DAST?

6. Utrzymanie

- DAST
 - (OWASP) ZAP (ZED Attack Proxy)
 - Burp
 - Nuclei

<https://owasp.org/www-project-devsecops-guideline/latest/02b-Dynamic-Application-Security-Testing>



Star Trek VIII: Pierwszy kontakt (1996) © Paramount Pictures

OWASP

OWASP

PROJECTS CHAPTERS EVENTS ABOUT

 Store

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Projects



Projects for Good

We are a community of developers, technologists and evangelists improving the security of software. The OWASP Foundation gives aspiring open source projects a platform to improve the security of software with:

- Visibility: Our website gets more than six million visitors a year
- Credibility: OWASP is well known in the AppSec community
- Resources: Funding and Project Summits are available for qualifying Programs
- Community: Our Conferences and Local Chapters connect Projects with users

OWASP Projects are a collection of related tasks that have a defined roadmap and team members. Our projects are open source and are built by our community of volunteers - people just like you! 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 100 active projects, and new project applications are submitted every week.

Open

Worldwide

Application

Security

Project

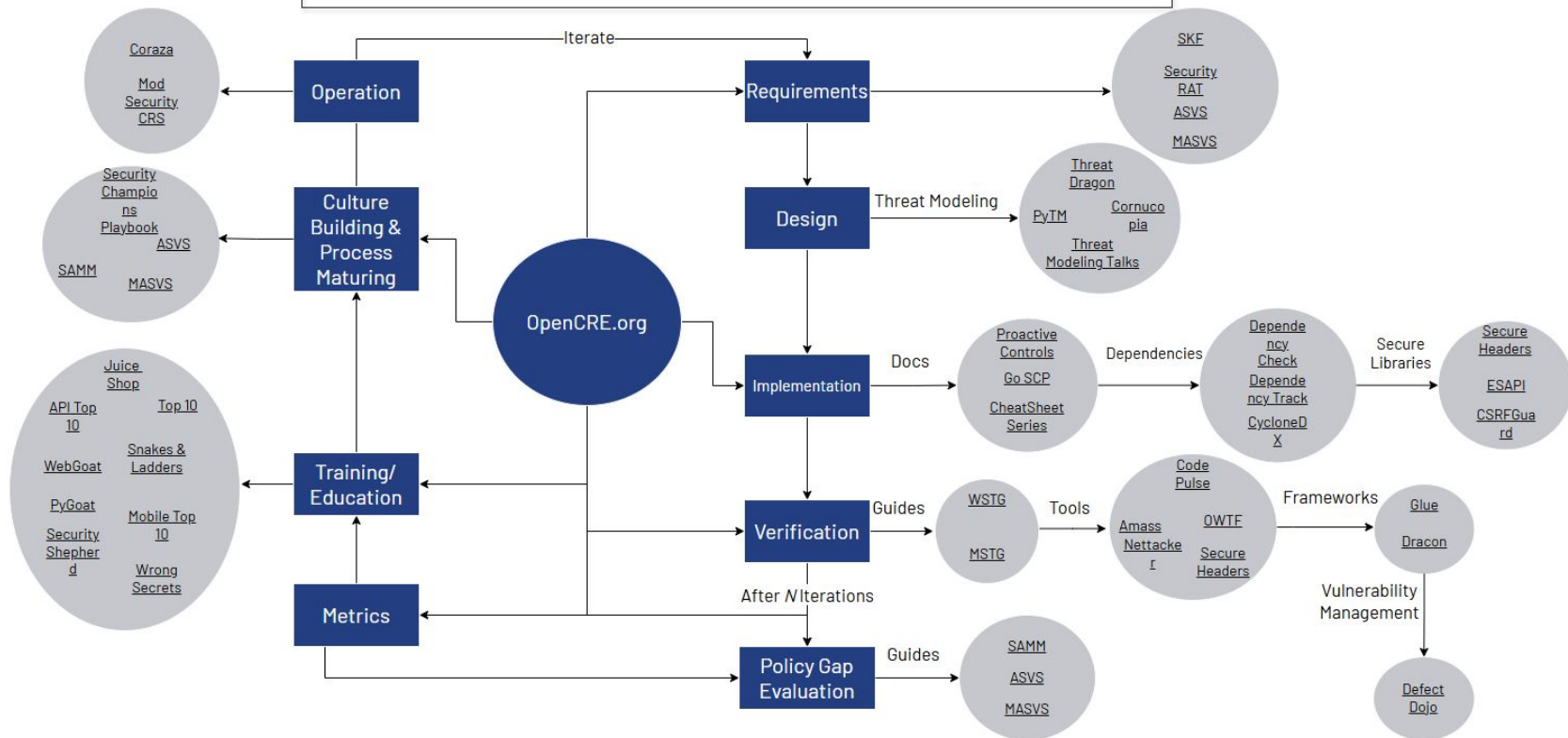
- Społeczność działająca na rzecz cyberbezpieczeństwa
- narzędzia i standardy bezpieczeństwa
- badania
- zasoby związane z cyberbezpieczeństwem różnych aspektów aplikacji (i nie tylko)

Przykładowe projekty

- <https://owasp.org/projects/>
- <https://owasp.org/www-project-top-10-drone-security-risks/>
- <https://owasp.org/www-project-top-10-low-code-no-code-security-risks/>
- <https://owasp.org/www-project-security-culture/>

Application Security Wayfinder

Brought to you by the Integration standards project
Linking requirements and guidance across standards through the Common Requirement Enumeration.



Edukacja / ćwiczenie umiejętności

2017

A01:2017-Injection

A02:2017-Broken Authentication

A03:2017-Sensitive Data Exposure

A04:2017-XML External Entities (XXE)

A05:2017-Broken Access Control

A06:2017-Security Misconfiguration

A07:2017-Cross-Site Scripting (XSS)

A08:2017-Insecure Deserialization

A09:2017-Using Components with Known Vulnerabilities

A10:2017-Insufficient Logging & Monitoring

2021

A01:2021-Broken Access Control

A02:2021-Cryptographic Failures

A03:2021-Injection

(New) A04:2021-Insecure Design

A05:2021-Security Misconfiguration

A06:2021-Vulnerable and Outdated Components

A07:2021-Identification and Authentication Failures

(New) A08:2021-Software and Data Integrity Failures

A09:2021-Security Logging and Monitoring Failures*

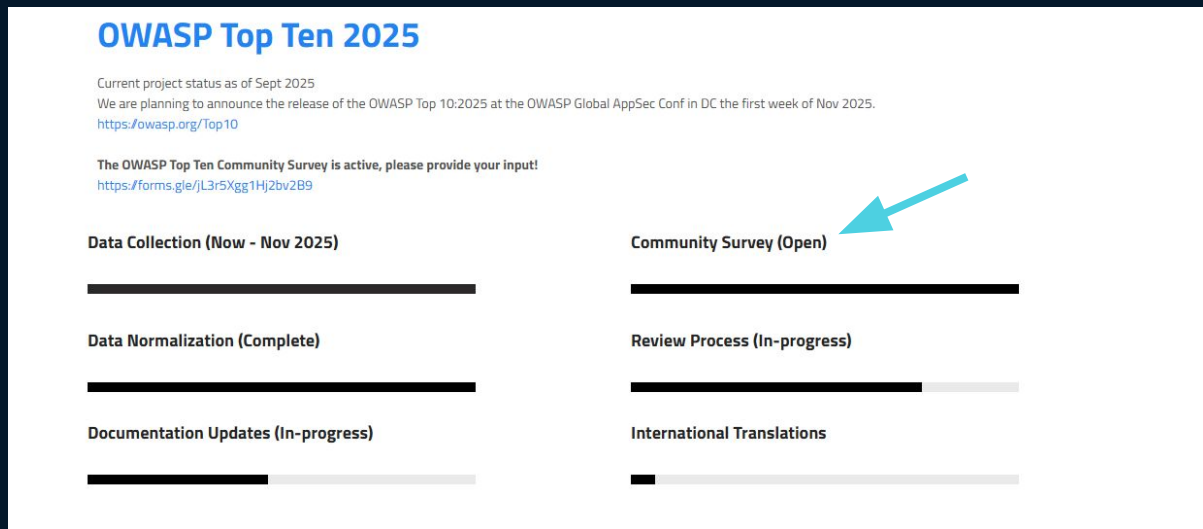
(New) A10:2021-Server-Side Request Forgery (SSRF)*

* From the Survey



Top Ten

- <https://owasp.org/www-project-top-ten/>
- <https://www.owasptopten.org/>
- Wersja OWASP Top Ten 2025 - pierwszy tydzień listopada 2025! 🎉



How It Works

1. Initial Planning/Data Call

Core team gets together and plans a rough schedule, a data call is released.

2. Industry Survey

We determine content in the survey and release for industry participation.

3. Data Analysis

After the data is collected, it is normalized and analyzed.

4. Draft Top Ten

Once we determine the eight risks from the data and the two from the survey, we draft a new list. The Draft is publicly released for review. All issues raised and decisions made are recorded in GitHub issues.

5. Release

Once we have reached a consensus and the core team agrees, we release the new OWASP Top Ten.

Top Ten

- od 2003
- Cel - budowanie świadomości
- wykorzystanie do programowania / testowania? “bare minimum and starting point”

https://owasp.org/Top10/A00_2021_How_to_use_the_OWASP_Top_10_as_a_standard/

Use Case	OWASP Top 10 2021	OWASP Application Security Verification Standard
Awareness	Yes	
Training	Entry level	Comprehensive
Design and architecture	Occasionally	Yes
Coding standard	Bare minimum	Yes
Secure Code review	Bare minimum	Yes
Peer review checklist	Bare minimum	Yes
Unit testing	Occasionally	Yes
Integration testing	Occasionally	Yes
Penetration testing	Bare minimum	Yes
Tool support	Bare minimum	Yes
Secure Supply Chain	Occasionally	Yes

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Penetration testing	Bare minimum	Yes
Tool support	Bare minimum	Yes
Secure Supply Chain	Occasionally	Yes

Nie tylko ten “tradycyjny” Top Ten...

- Bezpieczeństwo API: <https://owasp.org/www-project-api-security/> (2023)
- Urządzenia mobilne: <https://owasp.org/www-project-mobile-top-10/> (2024)
- Aplikacje desktopowe:
<https://owasp.org/www-project-desktop-app-security-top-10/>
- Bezpieczeństwo danych:
<https://owasp.org/www-project-data-security-top-10/> (2023)
- Work in progress: DevSecOps:
<https://owasp.org/www-project-devsecops-top-10/> , ale np.
<https://owasp.org/www-project-devsecops-guideline/>

Nie tylko ten “tradycyjny” Top Ten...

- Zdaje się, że zawieszony - Docker:
<https://owasp.org/www-project-docker-top-10/> ->
<https://github.com/OWASP/Docker-Security>
- Oprogramowanie Open Source:
<https://owasp.org/www-project-open-source-software-top-10/>
- Machine Learning:
<https://owasp.org/www-project-machine-learning-security-top-10/> (2023), ale
np. <https://owasp.org/www-project-ai-testing-guide/>

WrongSecrets

Welcome to OWASP WrongSecrets

Learn about secrets management by finding real secrets hidden in code, configuration files, and cloud infrastructure.

How to Play

Your Mission: Find hidden secrets in this repository and enter them to score points!

Where to Look:

- 📁 Source code files (Java, JavaScript, etc.)
- 🐳 Docker files and configurations
- ☁️ Cloud deployment configurations (AWS, GCP, Azure)
- 📄 Environment variables and config files
- 🗄️ Vault and secret management tools

Getting Started: Check out the [GitHub repository](#) to examine the code and find the secrets!

Pro Tip: Each challenge below has a different difficulty level and may require different environments. Start with the easier ones and work your way up! 🚀

Difficulty: ★ (Easy) ★★ (Medium) ★★★ (Hard) ★★★★ (Expert) ★★★★★ (Master) | **Environment:**

Where the challenge can be solved

30 ▾ entries per page

Search:

▲ #	Challenge	◆ Focus	◆ Difficulty	Runs on environment (current: Heroku)	◆ Solved
0	Challenge 0	Intro	★☆☆☆	Docker	

Like what you see? Please

☆ Star us on Github 1,361

Note: The above button only takes you to the repository. Please ensure to star the repository once you are there!

OWASP Project Leaders:

• [Ron de Maan @bandobean](#)

<https://github.com/OWASP/wrongsecrets?tab=readme-ov-file> || <https://wrongsecrets.herokuapp.com/>

Snakes and Ladders

- węże - zagrożenia (2017)
- drabiny - techniki bezpieczeństwa wspierające rozwój bezpiecznego oprogramowania (2018)
- <https://github.com/OWASP/www-project-snakes-and-ladders/blob/master/assets/files/web/EN/OWASP-SnakesAndLadders-WebApplications-EN-1v20.pdf>

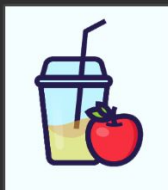
Juice Shop

- Aplikacja dziurawa jak szwajcarski ser
- Podstawy podstaw
- <https://owasp.org/www-project-juice-shop/>
- <https://demo.owasp-juice.shop/#/>

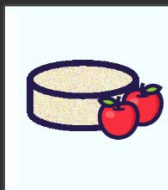
Juice Shop

All Products

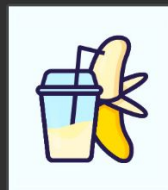
[Click for more information](#)



Apple Juice
(1000ml)
1.99[€]



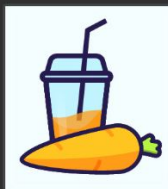
Apple Pomace
0.89[€]



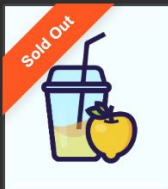
Banana Juice
(1000ml)
1.99[€]



Best Juice
Shop
Salesman
Artwork
5000[€]



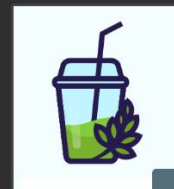
Carrot Juice
(1000ml)
2.99[€]



Eggfruit Juice
(500ml)
8.99[€]



Fruit Press
89.99[€]



Green
Smoothie
1.99[€]

This website uses fruit cookies to ensure you
get the juiciest tracking experience.
But me wait!

Me want it!

Analiza wymagań || Ocena rozbieżności

ASVS

- Application Security Verification Standard
- testowanie webaplikacji
- wsparcie w bezpiecznym rozwijaniu aplikacji dla developerów
- trzy poziomy
 - L1 - krytyczne
 - L2 - dobrze zaimplementować
 - L3 - tylko dla orłów
- <https://owasp.org/www-project-application-security-verification-standard/>

ASVS 4.03 vs. 5.0.0

V1.11 Business Logic Architecture

#	Description	L1	L2	L3	CWE
1.11.1	Verify the definition and documentation of all application components in terms of the business or security functions they provide.	✓	✓		1059
1.11.2	Verify that all high-value business logic flows, including authentication, session management and access control, do not share unsynchronized state.	✓	✓		362
1.11.3	Verify that all high-value business logic flows, including authentication, session management and access control are thread safe and resistant to time-of-check and time-of-use race conditions.			✓	367

OWASP Application Security Verification Standard 4.0.3

20



V1.12 Secure File Upload Architecture

#	Description	L1	L2	L3	CWE
1.12.1	[DELETED, DUPLICATE OF 12.4.1]				
1.12.2	Verify that user-uploaded files - if required to be displayed or downloaded from the application - are served by either octet stream downloads, or from an unrelated domain, such as a cloud file storage bucket. Implement a suitable Content Security Policy (CSP) to reduce the risk from XSS vectors or other attacks from the uploaded file.	✓	✓		646

V2.3 Business Logic Security

This section considers key requirements to ensure that the application enforces business logic processes in the correct way and is not vulnerable to attacks that exploit the logic and flow of the application.

#	Description	Level
2.3.1	Verify that the application will only process business logic flows for the same user in the expected sequential step order and without skipping steps.	1
2.3.2	Verify that business logic limits are implemented per the application's documentation to avoid business logic flaws being exploited.	2
2.3.3	Verify that transactions are being used at the business logic level such that either a business logic operation succeeds in its entirety or it is rolled back to the previous correct state.	2

30

Application Security Verification Standard

May 2025

#	Description	Level
2.3.4	Verify that business logic level locking mechanisms are used to ensure that limited quantity resources (such as theater seats or delivery slots) cannot be double-booked by manipulating the application's logic.	2
2.3.5	Verify that high-value business logic flows require multi-user approval to prevent unauthorized or accidental actions. This could include but is not limited to large monetary transfers, contract approvals, access to classified information, or safety overrides in manufacturing.	3

OWASP Top Ten vs OWASP ASVS

2021

A01:2021-Broken Access Control

A02:2021-Cryptographic Failures

A03:2021-Injection

A04:2021-Insecure Design

A05:2021-Security Misconfiguration

A06:2021-Vulnerable and Outdated Components

A07:2021-Identification and Authentication Failures

A08:2021-Software and Data Integrity Failures

A09:2021-Security Logging and Monitoring Failures*

A10:2021-Server-Side Request Forgery (SSRF)*

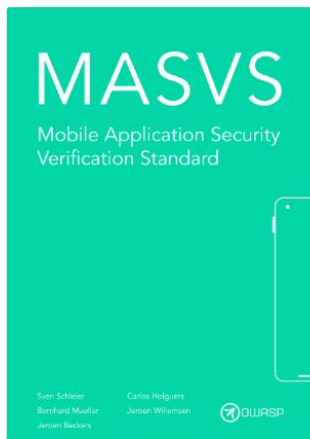
* From the Survey

- V1 Encoding and Sanitization
- V2 Validation and Business Logic
- V3 Web Frontend Security
- V4 API and Web Service
- V5 File Handling
- V6 Authentication
- V7 Session Management
- V8 Authorization
- V9 Self-contained Tokens
- V10 OAuth and OIDC
- V11 Cryptography
- V12 Secure Communication
- V13 Configuration
- V14 Data Protection
- V15 Secure Coding and Architecture
- V16 Security Logging and Error Handling
- V17 WebRTC

MASVS

- <https://mas.owasp.org/MASVS/> - ASVS dla urządzeń mobilnych
 - poziomy weryfikacji: L1, L2, Resilience (reverse engineering, manipulowanie danymi)
- <https://mas.owasp.org/#our-mission>

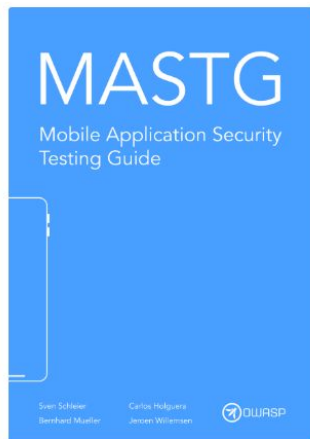
OWASP MASVS



OWASP MASWE



OWASP MASTG



OWASP MAS Checklist

MASVS-ID	Platform	Description	L1	L2	Status
MASVS-STORAGE-1		The app securely stores sensitive data.			Pass
verified		Testing the Device Access Security Policy			Pass
verified		Testing Local Storage for Sensitive Data			Pass
not		Testing Local Data Storage			Not Applicable
MASVS-STORAGE-2		The app prevents leakage of sensitive data.			Pass
verified		Testing Logs for Sensitive Data			Pass
verified		Determining Whether the Keyboard Cache is Disabled for Text Input Fields			Pass
verified		Testing Backups for Sensitive Data			Pass

Wdrażanie bezpieczeństwa



OWASP Cheat Sheet Series

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[C-Based Toolchain Hardening](#)

[CI CD Security](#)

[Choosing and Using Security Questions](#)

[Clickjacking Defense](#)

[Content Security Policy](#)

[Cookie Theft Mitigation](#)

[Credential Stuffing Prevention](#)



OWASP

CHEAT SHEET

SERIES PROJECT

Life is too short • AppSec is tough • Cheat!

The **OWASP Cheat Sheet Series** was created to provide a concise collection of high value information on specific application security topics. These cheat sheets were created by various application security professionals who have expertise in specific topics.

Cheat Sheet Series

- Pigułki wiedzy dla programistów
 - <https://cheatsheetseries.owasp.org/>
 - <https://owasp.org/www-project-cheat-sheets/>
- Mapowanie wg projektów
 - <https://cheatsheetseries.owasp.org/IndexTopTen.html>
 - <https://cheatsheetseries.owasp.org/IndexASVS.html>
 - <https://cheatsheetseries.owasp.org/IndexMASVS.html>

ASVS 4.0.x

OWASP Cheat Sheet Series

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Cheatsheets

AJAX Security

Abuse Case

Access Control

Attack Surface Analysis

Authentication

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Automation

Automotive Security.md

Bean Validation

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 - [V1.4 Access Control Architectural Requirements](#)
 - [V1.5 Input and Output Architectural Requirements](#)
 - [V1.6 Cryptographic Architectural Requirements](#)
 - [V1.7 Errors, Logging and Auditing Architectural Requirements](#)
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[V1.11 Business Logic
Architectural Requirements](#)

[V1.12 Secure File Upload
Architectural Requirements](#)

Weryfikacja (testy)

WSTG - Web Security Testing Guide

- testowanie aplikacji i usług webowych
- <https://owasp.org/www-project-web-security-testing-guide/>

Stable

View the always-current stable version at [stable](#).

[Unreleased 4.3]

[Version 4.2] - 2020-12-03

[Version 4.2](#) introduces new testing scenarios, updates existing chapters, and offers an improved writing style and chapter layout.

wstg / document / 

 **mbiesiad** Update 01-Testing_for_Weak_Transport_Layer_Security.md (#1242) ✓ 37d6202 · 10 hours ago [History](#)

Name	Last commit message	Last commit date
..		
0-Foreword	OWASP W: web > worldwide (#1219)	4 months ago
1-Frontispiece	Mrojz credit (#1224)	3 months ago
2-Introduction	Move to HTTPS links (#1174)	10 months ago
3-The_OWASP_Testing_Framework	Remove any www-pdf-archive links which no longer work (#1206)	7 months ago
4-Web_Application_Security_Testing	Update 01-Testing_for_Weak_Transport_Layer_Security.md (#1242)	10 hours ago
5-Reporting	Move to HTTPS links (#1174)	10 months ago
6-Appendix	OWASP W: web > worldwide (#1219)	4 months ago
README.md	Create 02-API_Broken_Object_Level_Authorization.md (#1190)	7 months ago

README.md  

WSTG - Web Security Testing Guide

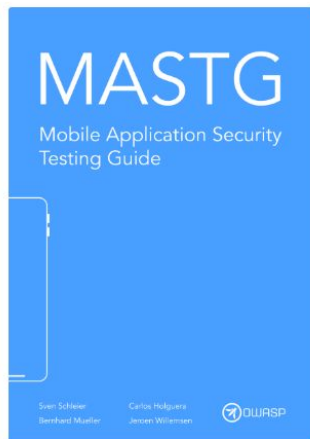
Web Application Security Testing

- 4.0 Introduction and Objectives
- 4.1 Information Gathering
- 4.2 Configuration and Deployment Management Testing
- 4.3 Identity Management Testing
- 4.4 Authentication Testing
- 4.5 Authorization Testing
- 4.6 Session Management Testing
- 4.7 Input Validation Testing
- 4.8 Testing for Error Handling
- 4.9 Testing for Weak Cryptography
- 4.10 Business Logic Testing
- 4.11 Client-side Testing

MASTG

- <https://owasp.org/www-project-mobile-app-security/>

OWASP MASTG



OWASP MAS Checklist

The image is a screenshot of the OWASP MAS Checklist web application. It features a pink header with the OWASP logo and the title 'Mobile Application Security Checklist'. Below the header, the section 'MASVS-STORAGE: Storage' is highlighted. The main content area displays a table of security checks with columns for Platform, Description, L1, L2, and Status. The checks are categorized into MASVS-STORAGE-1 and MASVS-STORAGE-2. The status of each check is indicated by a colored bar (green for Pass, red for Fail, and grey for Not Applicable).

Platform	Description	L1	L2	Status
MASVS-STORAGE-1	The app securely stores sensitive data.			
android	Testing the Device Access Security Policy			Fail
android	Testing Local Storage for Sensitive Data			Pass
ios	Testing Local Data Storage			N/A
MASVS-STORAGE-2	The app prevents leakage of sensitive data.			
android	Testing Leaks for Sensitive Data			Fail
android	Determining Whether the Keyboard Cache is Enabled for Text Input Fields			
android	Testing Backups for Sensitive Data			

OWASP Secure Headers Project

<https://owasp.org/www-project-secure-headers/>

<https://github.com/OWASP/www-project-secure-headers>

Main	Response Headers	Browser Support	<u>Best Practices</u>	Technical Resources	Code Snippets	Miscellaneous
Statistics	Case Studies	Logo				

Best Practices

- [Configuration proposal](#)
- [Prevent information disclosure via HTTP headers](#)
- [Prevent exposure to cross-site scripting when hosting uploaded files](#)
- [Prevent CORS misconfiguration issues](#)
- [Prevent information disclosure via the browser local cached files](#)
- [Prevent CSP bypasses](#)
- [Support for a large CSP policy](#)

OWASP Secure Headers Project

OWASP Secure Headers Project

[Main](#)[Response Headers](#)[Browser Support](#)[Best Practices](#)[Technical Resources](#)[Code Snippets](#)[Miscellaneous](#)[Statistics](#)[Case Studies](#)[Logo](#)

Technical Resources

 This section provides a list of tools as well as documents to understand, analyze, develop and administer HTTP secure headers to help achieving more secure and trustworthy web systems.

-  [Presentations](#)
-  [Analysis Tools](#)
-  [Development Libraries](#)
 - [DotNet](#)
 - [Go](#)
 - [Java](#)
 - [NodeJS](#)
 - [PHP](#)
 - [Python](#)
 - [Ruby](#)
 - [Swift](#)
 - [Rust](#)

Presentations

OWASP Secure Headers Project

NodeJS

Library	Description	Ref
helmet	Module to help secure Express apps with various HTTP headers.	
ember-cli-content-security-policy	This addon makes it easy to use Content Security Policy (CSP) in your project. It can be deployed either via a Content-Security-Policy header sent from the Ember CLI Express server, or as a meta tag in the index.html file.	

Python

Library	Description	Ref
django-csp and django-security	Content Security Policy for Django. A collection of models, views, middlewares, and forms to help secure a Django project.	 / 
Secweb	Secweb is a pack of security middlewares for fastApi and starlette server it includes CSP, HSTS, and many more.	
secure	Lightweight library to add security headers to Django, Flask, FastAPI, and more.	



https://owasp.org/www-project-security-culture/stable/2-Why_Add_Security_In_Development_Teams/

