

## THE 2025 OWASP TOP TEN

### WEB APPLICATION SECURITY UP-TO-DATE

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confoo 2026, Montréal

## OWASP Top Ten 2025

1. BROKEN ACCESS CONTROL =
2. SECURITY MISCONFIGURATION ↑
3. SOFTWARE SUPPLY CHAIN FAILURES ↑
4. CRYPTOGRAPHIC FAILURES ↓
5. INJECTION ↓
6. INSECURE DESIGN ↓
7. AUTHENTICATION FAILURES =
8. SOFTWARE OR DATA INTEGRITY FAILURES =
9. LOGGING AND ALERTING FAILURES =
10. MISHANDLING OF EXCEPTIONAL CONDITIONS ★

### #1: Broken Access Control

2013 list: Insecure Direct Object References & Missing Function Level Access Control

Access Control for data

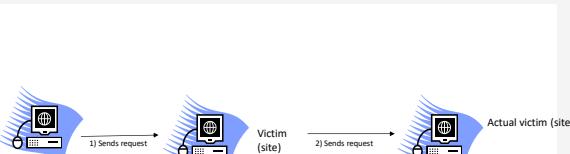
Access Control for functions

### Mass Assignment

The curse of model binding



### Server-Side Request Forgery (SSRF)



### #2: Security Misconfiguration

I am not an administrator!

In the age of devops, maybe I am

Harden server/operating system

Do not send detailed error messages to the client

Use browser security headers and cookie flags

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## #3: Software Supply Chain Failures

TRUESEC AI Platform Services Solutions Company Login Threat Model Under Attack

## 500+ npm Packages Compromised in Ongoing Supply Chain Attack 'Shai-Hulud'

A malicious update was pushed initially to over 40 different npm packages over multiple maintainers, most notably, `gcm/fincolor` with 22 million weekly downloads[1].

2020-09-18 | insight

<https://www.truesec.com/hub/blog/500-npm-packages-compromised-in-ongoing-supply-chain-attack-shai-hulud>

## #4: Cryptographic Failures

Use encryption everywhere

HTTPS only (enforce, if viable)

HTTP Strict Transport Security

„secure“ flag for cookies

## #5: Injection

Different types of injection

- SQL injection
- LDAP injection
- XPath injection
- CSV injection

We are talking about SQL injection, of course. And cross-site scripting.

## SQL Injection

SQL contains commands and data

Separating them can prevent the attack

Approach #1: parameterized queries/prepared statements -> separation

Approach #2: OR mapper -> no queries

## XSS Protection

Escape output (< > " ' &)

Browser protection (X-XSS-Protection) ☀️

Content Security Policy

## #6: Insecure Design

Threat Modeling

Reference architectures

„shift left“

## #7: Authentication Failures

HTTP is a stateless protocol

Session management is a hack, essentially

Different attack vectors

- Session hijacking
- Session fixation

Other problems: session timeout too long, passwords storage, ...

Improper usage of JWTs

## #8: Software or Data Integrity Failures

Making assumptions, but not verifying integrity

Deserialization

Loading JavaScript code

CI/CD

## #9: Logging and Alerting Failures

Do log!

Do look at logs!

## #10: Mishandling of Exceptional Conditions

Sending exceptions to the client

Not properly rolling back transaction upon errors

Not releasing resources after an exception occurs

## #11: What's Missing?

Excessive requests

Lack of security processes

AI risks

## Thank you!

- Questions?

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Session Feedback



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