



# OWASP Ruhrpott Chapter Meeting

Relaunch



# What Is OWASP?

- The **Open Web Worldwide Application Security Project** is a nonprofit foundation that works **to improve the security of software.**

Offers include:

- Community-led open source projects.
- Over 250+ local chapters worldwide.
- Tens of thousands of members.
- Industry-leading educational and training conferences.





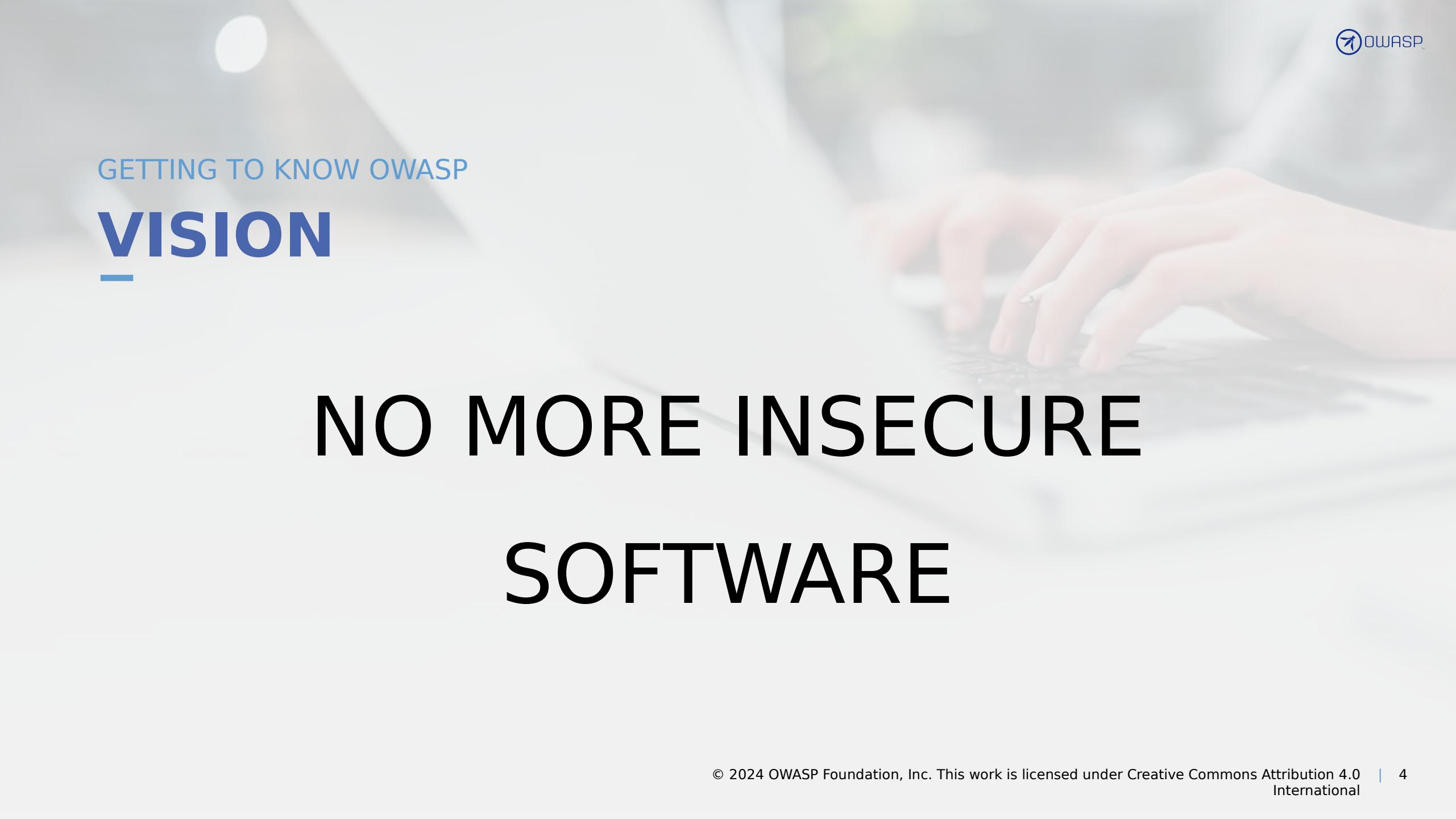
# OWASP Ruhrpott - The Past

- 2015 - 2020 (50 meetings, 1 conference)
- Different locations
- Practical Trainings
- Talks
- Get Together & Discussions



GETTING TO KNOW OWASP

# VISION



NO MORE INSECURE  
SOFTWARE

## GETTING TO KNOW OWASP

# MISSION

**To be the global open community that powers secure software through education, tools, and collaboration.**

As the world's largest non-profit organization concerned with software security, OWASP:

- Supports the building of impactful projects;
- Develops & nurtures communities through events and chapter meetings worldwide; and
- Provides educational publications & resources

to enable developers to write better software and security professionals to make the world's software more secure.

GETTING TO KNOW OWASP

# OWASP COMMUNITY

OWASP is a worldwide free and open community focused on improving the security of application software.

Our mission is to make application security visible so that people and organizations can make informed decisions about application security risks.





## GETTING TO KNOW OWASP

# IT'S ALL FOR FREE

Everyone is free to participate in OWASP, and all of our materials are available for free and with an open software license.

Most OWASP events are free for both members and non-members and can be attended by anyone interested in Application Security and Cyber Security in general.

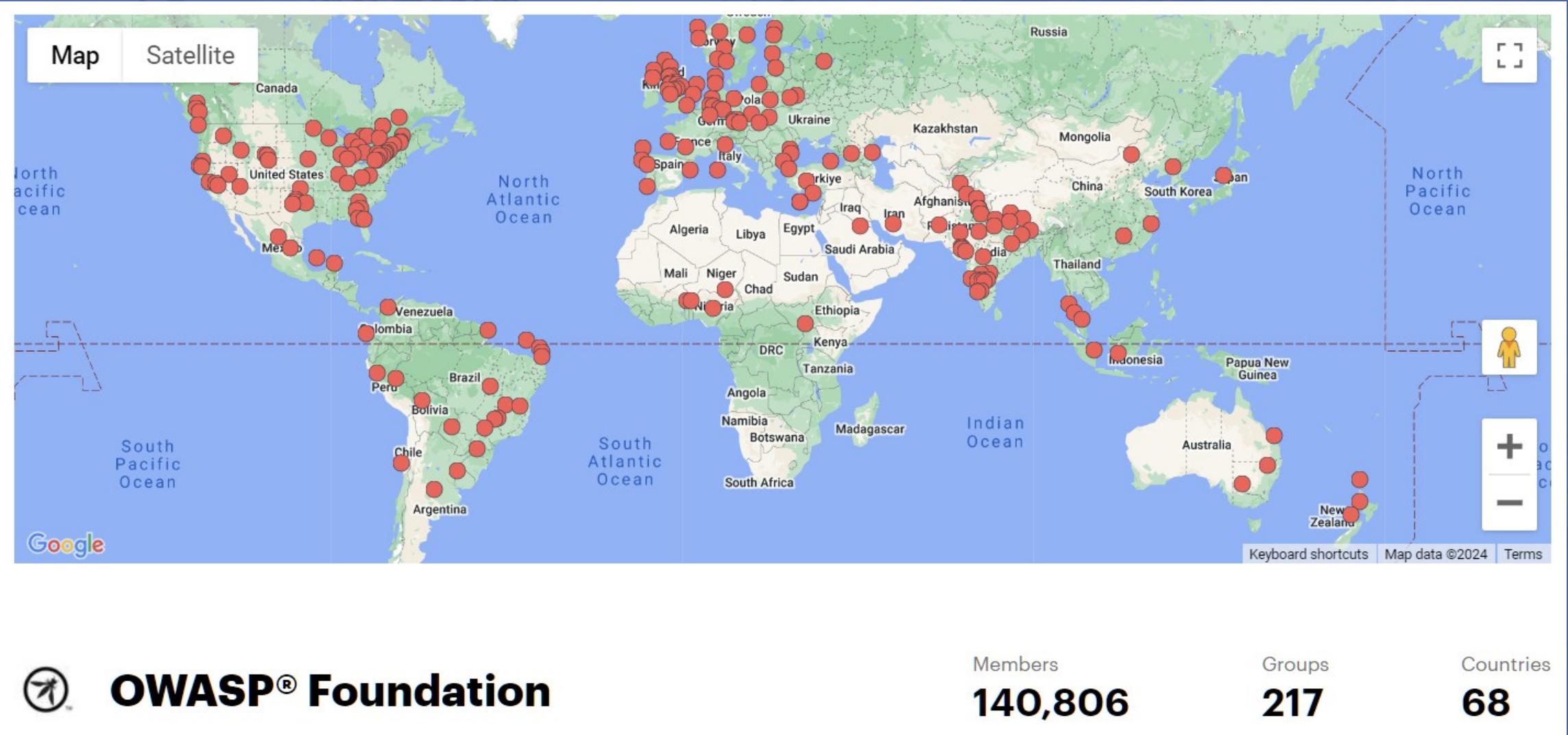
## GETTING TO KNOW OWASP

# OUR HISTORY

Founded in September 2001, OWASP changed the application security world for the better, with the release of the OWASP Developer Guide and many other free resources.

- OWASP Top 10 First Released January 2003
- OWASP Foundation, Inc incorporated April 2004
- First conference: Global AppSec NY 2005
- First EU conference: Global AppSec EU 2006





## GETTING TO KNOW OWASP

# OWASP BY THE NUMBERS

**06****3 GLOBAL APPSECs**

Global AppSec's are a great place to network and learn

**05****272 CHAPTERS**

There's a chapter near you... or please create one!

**04****20+ Regional AppSec Days**

Medium Sized Regional Events near you!

**01****8118+ MEMBERS**

Members sustain OWASP

**02****226 PROJECTS**

We are famous for our projects!

**03****1150+ Leaders**

Become a leader today!

# We are all volunteers!

80,000+ participants and volunteers worldwide

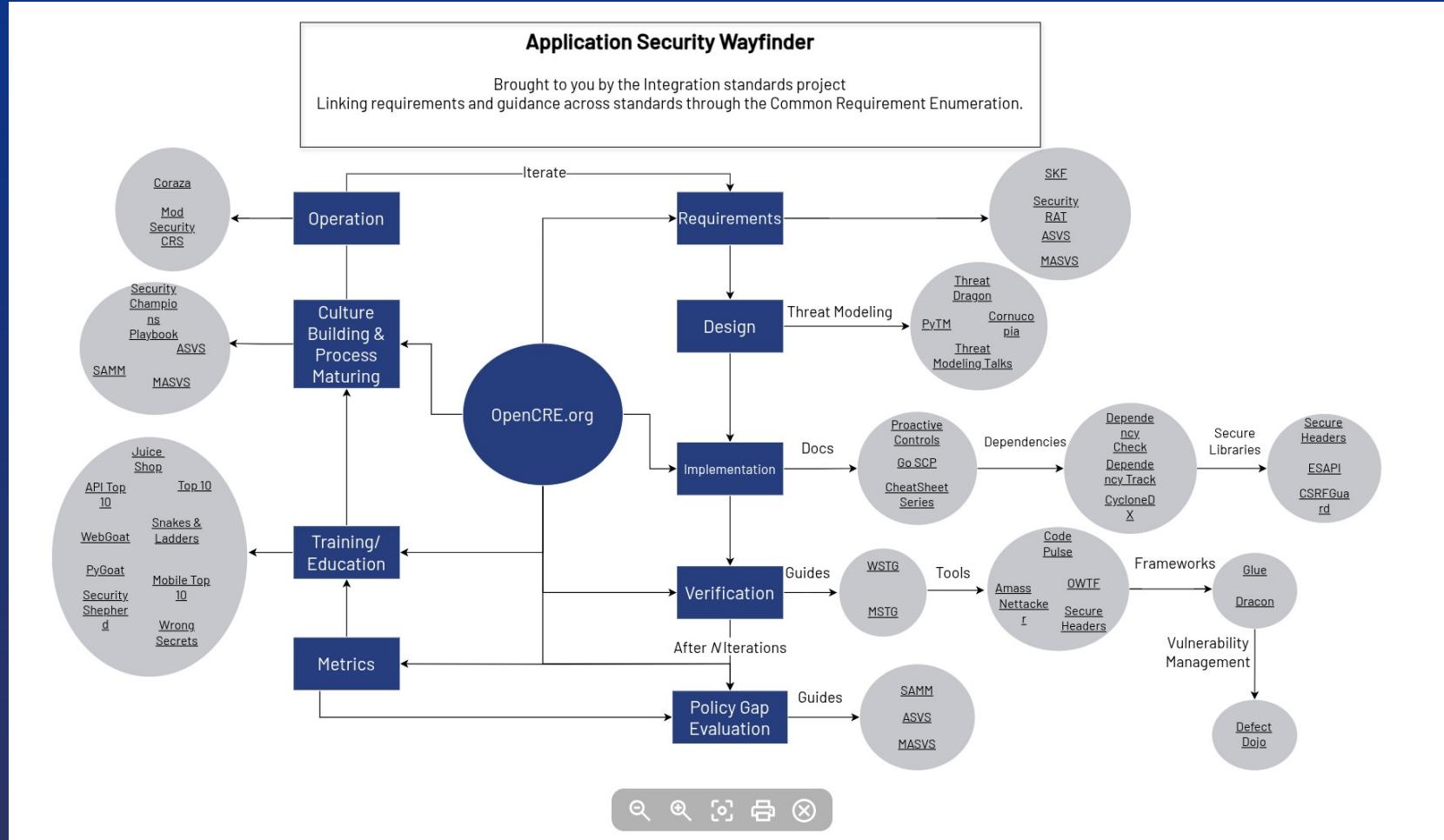


# OWASP Projects

There is way more than OWASP Top 10



# Application Security Wayfinder



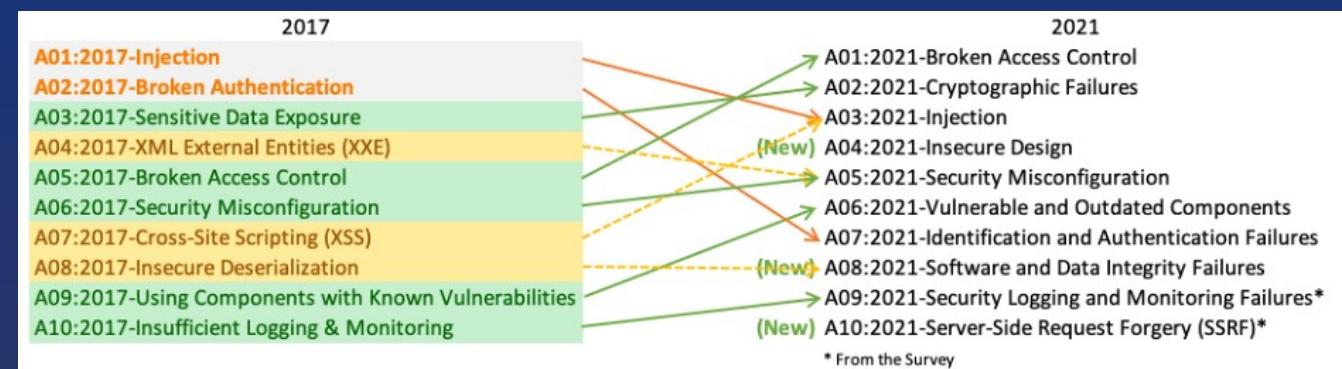


# OWASP Top 10

- An opinionated list of most common failures seen in (web) apps
- Most of them you can also find in IoT, desktop apps, etc.
- Largely applicable to non-web apps.
- Data from static code analysis of 12 manufacturers/service providers.
- The ranking is done by open survey of “experts”.
- <https://owasp.org/www-project-top-ten/>

Use it for

- security awareness,
- security training,
- and push left security.
- Don't use it for anything else!
- Pentesting -> OWASP Web Security Testing Guide
- Compliance ' -> OWASP ASVS, OWASP SAMM, OWASP DSOMM





# OWASP Web Security Testing Guide (WSTG)

- Comprehensive guide to testing the security of web applications and web services.
- <https://owasp.org/www-project-web-security-testing-guide/>

## Testing Browser Storage

ID
WSTG-CLNT-12

### Summary

Browsers provide the following client-side storage mechanisms for developers to store and retrieve data:

- Local Storage
- Session Storage
- IndexedDB
- Web SQL (Deprecated)
- Cookies

These storage mechanisms can be viewed and edited using the browser's developer tools, such as [Google Chrome DevTools](#) or [Firefox's Storage Inspector](#).

Note: While cache is also a form of storage it is covered in a [separate section](#) covering its own peculiarities and concerns.

### Test Objectives

- Determine whether the website is storing sensitive data in client-side storage.
- The code handling of the storage objects should be examined for possibilities of injection attacks, such as utilizing unvalidated input or vulnerable libraries.

### How to Test

#### Local Storage

`window.localStorage` is a global property that implements the [Web Storage API](#) and provides **persistent** key-value storage in the browser.

Both the keys and values can only be strings, so any non-string values must be converted to strings first before storing them, usually done via [JSON.stringify](#).

Entries to `localStorage` persist even when the browser window closes, with the exception of windows in Private/Incognito mode.

The maximum storage capacity of `localStorage` varies between browsers.



# OWASP Cheat Sheet Series

- No time to read the OWASP Developer Guide or role out OWASP SAMM? Just want to implement a secure...
  - ... file upload
  - ... password forgotten
  - ... xyz
- Just look for the right cheat sheet and follow it.
- <https://owasp.org/www-project-cheat-sheets/>





# OWASP Juice Shop

- Insecure web shop.
- Learn to hack & understand attack vectors.
- You can use it for CTFs.
- <https://owasp.org/www-project-juice-shop/>

The screenshot shows the OWASP Juice Shop interface. At the top, there's a navigation bar with a search icon, account information, and language selection (EN). The main title is "OWASP Juice Shop" with a small JS logo. Below the title, it says "All Products". There are four product items displayed in a grid:

- Apple Juice (1000ml)** - Price: 1.99¤. It features an illustration of a juice cup with a straw and a red apple.
- Apple Pomace** - Price: 0.89¤. It features an illustration of a container with apples next to it.
- Banana Juice (1000ml)** - Price: 1.99¤. It features an illustration of a juice cup with a straw and a banana.
- Best Juice Shop Salesman Artwork** - Price: 5000¤. It features a cartoon illustration of a smiling man holding a juice glass, with a green banner above him that says "Only 1 left".



# OWASP Ruhrpott - The Future



# OWASP Ruhrpott - The Future

- Different locations (2 month?)
  - Practical Trainings
  - Talks from Different Industries
  - Get Together & Discussions
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- **Meetup:** <https://www.meetup.com/owasp-ruhrpott-chapter>
  - **Chapter:** <https://owasp.org/www-chapter-ruhrpott/>

