OWASP Romania 2014



The OWASP Foundation

http://www.owasp.org

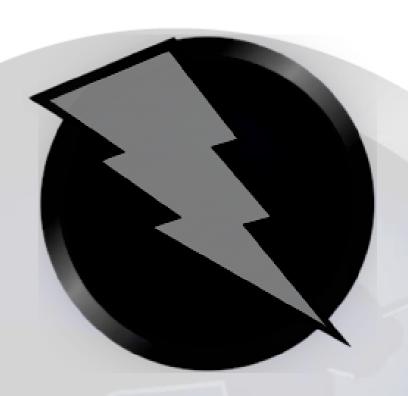
OWASP Zed Attack Proxy

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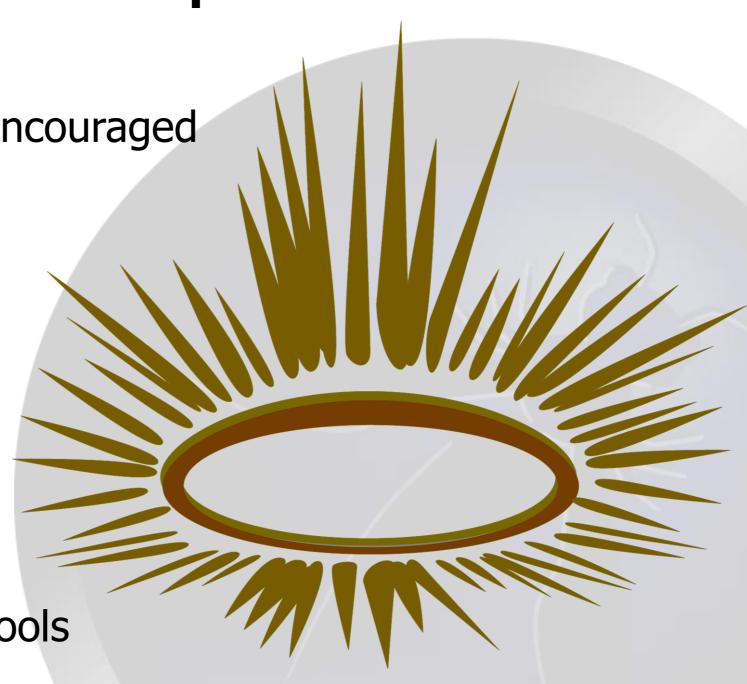
What is ZAP?

- An easy to use webapp pentest tool
- Completely free and open source
- An OWASP flagship project
- Ideal for beginners
- But also used by professionals
- •Ideal for devs, esp. for automated security tests
- Becoming a framework for advanced testing
- Included in all major security distributions
- •Not a silver bullet!



ZAP Principles

- Free, Open source
- Involvement actively encouraged
- Cross platform
- Easy to use
- Easy to install
- Internationalized
- Fully documented
- Work well with other tools
- Reuse well regarded components



Statistics

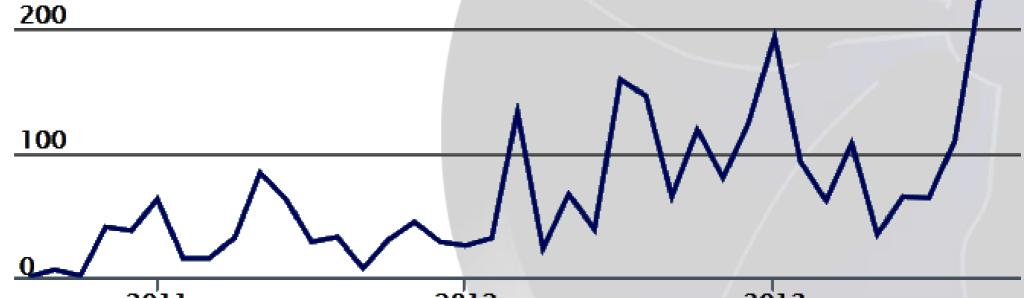
- Released September 2010, fork of Paros
- •V 2.2.2 released in Sept 2013
- •V 2.2.2 downloaded > 60K times
- Translated into 20+ languages
- Over 80 translators
- •Mostly used by Professional Pentesters?
- •Paros code: ~20% ZAP Code: ~80%

Ohloh Statistics

- <u>a</u>ery High Activity
- The most active OWASP Project
- 25 active contributors

Commits per Month



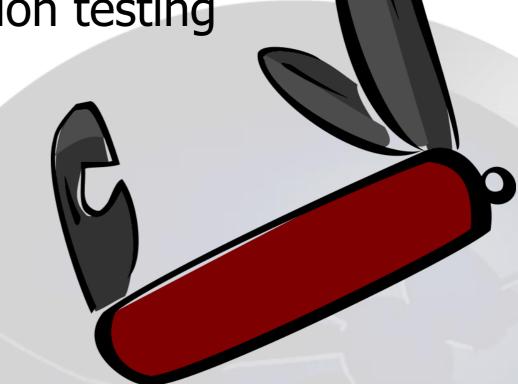


•Source: http://www.ohloh.net/p/zaproxy

The Main Features

All the essentials for web application testing

- Intercepting Proxy
- Active and Passive Scanners
- Traditional and Ajax Spiders
- WebSockets support
- Forced Browsing (using OWASP DirBuster code)
- Fuzzing (using fuzzdb & OWASP JBroFuzz)
- Online Add-ons Marketplace



Some Additional Features

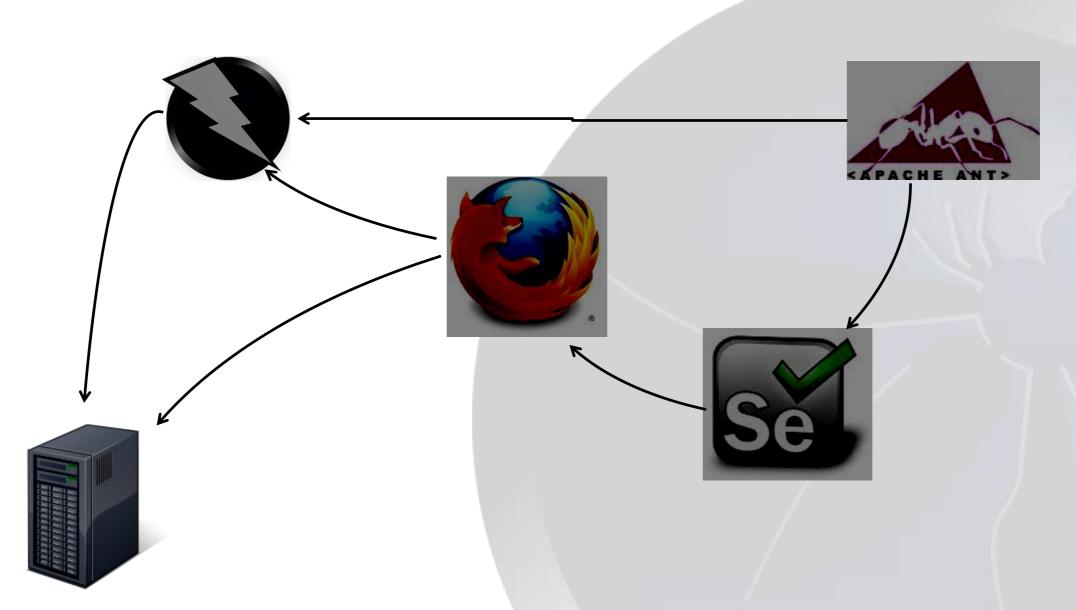
- Auto tagging
- Port scanner
- Script Console
- Report generation
- Smart card support
- Contexts and scope
- Session management
- Invoke external apps
- Dynamic SSL Certificates



How can you use ZAP?

- Point and shoot the Quick Start tab
- Proxying via ZAP, and then scanning
- Manual pentesting
- Automated security regression tests
- As a debugger
- As part of a larger security program

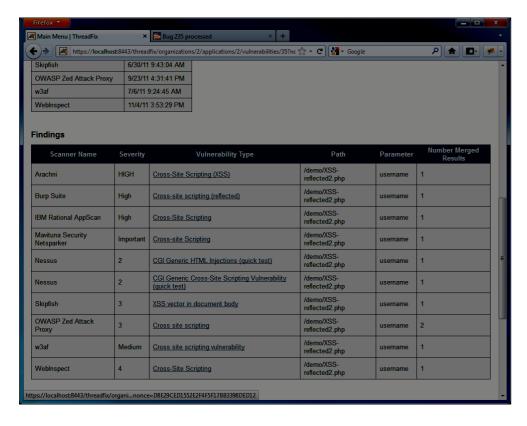
Security Regression Tests



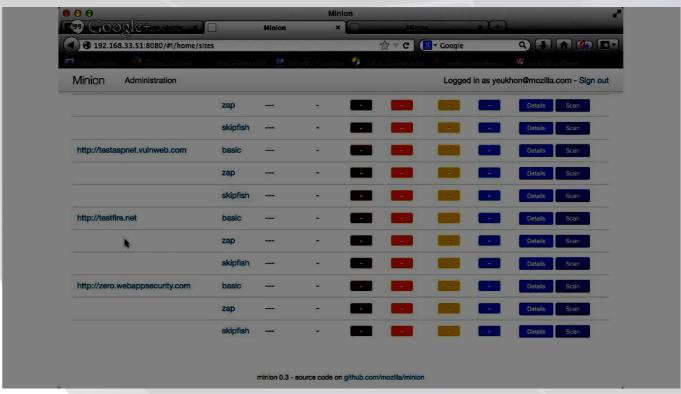
http://code.google.com/p/zaproxy/wiki/SecRegTests

ZAP – Embedded

ThreadFix – Denim Group Software vulnerability aggregation and management system

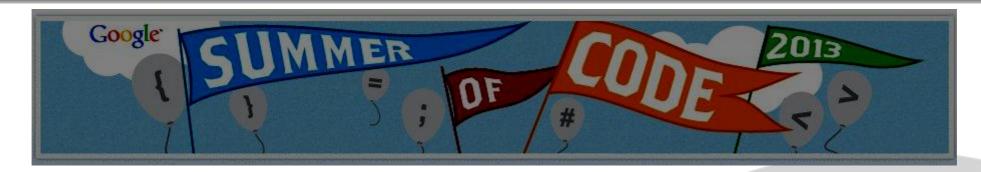


Minion – Mozilla Security automation platform





- New Spider plus Session awareness
 Cosmin Stefan
- Ajax Spider via Crawljax Guifre Ruiz
- WebSockets support Robert Kock



- •Enhanced HTTP Session Handling Cosmin Stefan
- •SAML 2.0 Pulasthi Mahawithana
- Advanced Reporting using BIRT
 Rauf Butt
- CMS ScannerAbdelhadi Azouni
- Dynamically Configurable Actions Alessandro Secco



- OWASP has just been allocated 14 slots
- •We don't know how many will be assigned to ZAP:/

2.3 – coming very soon!

- •ZAP 'lite'
- Support browser side events
- Enhanced authentication
- Non standard apps
- Fine grained scan policy
- Advanced active scan
- Extended command line
- More API support



2.3 – continued...

- Internationalized help file, inc
- Bosnian, French, Japanese, Spanish
- Keyboard shortcuts
- New UI options
- More functionality as add-ons
- New and improved scan rules
- Over 240 enhancements + fixes!







Questions?

http://www.owasp.org/index.php/ZAP