











Attacking & Defending Web Apps with bWAPP



ME | IT Audits & Security



- 2-day comprehensive web security course
- Focus on attack and defense techniques
- Performed on the famous <u>bWAPP</u> platform
 - bWAPP, or a buggy web application
 - Deliberately insecure
 - Build to better secure web apps
 - Includes all OWASP Top 10 vulns



- You will learn how to:
 - Detect vulnerabilities
 - Exploit vulnerabilities
 - Audit web applications
 - Secure web and database servers















bWAPP == extremely buggy

- bWAPP, or a buggy Web APPlication
- Deliberately insecure web application, includes all major known web vulnerabilities
- Helps security enthusiasts, developers and students to discover and to prevent issues
- Prepares one for successful penetration testing and ethical hacking projects





Testimonials

Awesome! It's good to see fantastic tools staying up to date ...



- Ed Skoudis Founder of Counter Hack

I just installed bWAPP 1.6 into the next release of SamuraiWTF ... Its a great app ...



- Justin Searle Managing Partner at UtiliSec

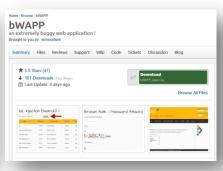
Great progress on bWAPP BTW!:)



Vivek RamachandranOwner of SecurityTube

- External links
 - Home page <u>www.itsecgames.com</u>
 - Download location <u>sourceforge.net/projects/bwapp</u>
 - Blog <u>itsecgames.blogspot.com</u>
 - What is bWAPP? pdf







- Course Content
 - Introduction to Web Apps
 - Penetration Testing
 - Reconnaissance
 - Vulnerabilities & Exploitation
 - Vulnerability Detection
 - Writing Secure Code
 - Web Server Hardening



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- Course Content
 - Introduction to Web Apps
 - bWAPP and bee-box
 - HTTP/HTTPS Basics
 - Building Web Applications (HTML, JavaScript, PHP, ASP,...)
 - Web 2.0
 - Same-Origin Policy
 - Database Technologies
 - Hacktivism and Web Attacks



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- Course Content
 - Penetration Testing
 - Web Application Penetration Testing
 - Black-Box and White-Box Testing
 - Penetration Testing Tools
 - Introduction to Kali Linux (formerly BackTrack)
 - Testing Methodologies
 - Open Web Application Security Project (OWASP)
 - Writing Reports





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 - Penetration Testing



- Reconnaissance
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- Course Content
 - Reconnaissance
 - Active vs. Passive
 - Port and Web Scanners
 - Browser Add-ons
 - Crawlers and Brute Forcers
 - Intercepting Proxies



- Course Content
 - Introduction to Web Apps
 - Penetration Testing
 - Reconnaissance



- Vulnerabilities & Exploitation
- Vulnerability Detection
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- Course Content
 - Vulnerabilities & Exploitation
 - Injections (HTML, SSI, Cmd, SQL, Blind SQL, JSON, XML/XPath,...)
 - Cross-Site Scripting (XSS)
 - Cross-Site Request Forgery (CSRF)
 - Session & Authentication Issues
 - Client Side Attacks
 - Denial-of-Service (DoS)
 - Local Privilege Escalations



- Course Content
 - Vulnerabilities & Exploitation
 - HTTP Parameter Pollution and Response Splitting
 - File Inclusions (LFI/RFI)
 - Malicious File Uploads (~ webshells)
 - Cross-Domain Attacks
 - ClickJacking & HTML5 Web Storage Issues
 - Parameter Tampering
 - Cryptographic Attacks



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 - Vulnerabilities & Exploitation



- Vulnerability Detection
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- Course Content
 - Vulnerability Detection
 - Intercepting Proxies
 - Open Source Assessment Tools
 - Commercial Web Scanners









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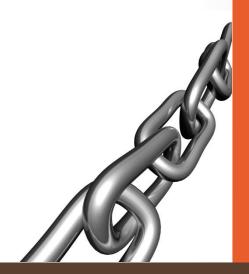
- Course Content
 - Writing Secure Code
 - Input Validations
 - Stored Procedures
 - Prepared Statements
 - Additional Defenses
 - OWASP Developer Guide

- Course Content
 - Introduction to Web Apps
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 - Reconnaissance
 - Vulnerabilities & Exploitation
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 - Writing Secure Code





- Course Content
 - Web Server Hardening
 - Apache and IIS Security
 - PHP Security
 - High Availability Techniques
 - Intrusion Detection and Prevention
 - Web Application Firewalls (WAFs)



- Audience
 - System engineers, web programmers, geeks and all other InfoSec enthusiasts are welcome!
 - This is a hardcore InfoSec training





- After attending the course you will be able to
 - Detect vulnerabilities in web apps
 - Audit, pentest (and hack) web apps
 - Protect web apps from modern attacks
 - Harden web servers and databases
 - Optimize source code





- When & Where
 - This course is on demand, at your location
 - 2-day InfoSec training
 - Schedule
 - 09u00 13u00 : training part 1
 - 13u00 14u00 : break
 - 14u00 17u00 : training part 2





- Prices
 - 1450 EUR/student
 - Special prices for groups
 - Included
 - Course materials
 - Software
 - Certificate





- Requirements
 - Laptop with at least 2GB RAM, 20GB free disk space, and administrator privileges
 - VMware Player, Workstation or Fusion
 - Programming knowledge not required
 - Interest in InfoSec and Ethical Hacking
- Subscriptions possible from <u>here</u>



Trainer: Malik Mesellem

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Blog <u>itsecgames.blogspot.com</u>









