

Attacking Web-based Applications

WIC3004 Computer Penetration

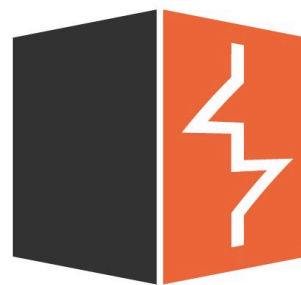
Faculty of Computer Science and Information Technology
Semester 1, 2018/2019



The Setup



Metasploitable 2
10.0.2.6



Burp Suite
127.0.0.1:8080



THC Hydra



Kali Linux 2018.3

Note that the IP address of your Metasploitable machine may differ

Burp Suite

- Burp Suite is a tool for testing Web application security
- Burp Suite Community Edition is bundled with Kali Linux 2018.3
- Enterprise and Professional Editions require license
- In our Lab exercise, Burp Suite will act as a proxy between Firefox and the DVWA

Burp Suite

Burp Suite Editions



Enterprise

From \$3,999.00 per year

- ✓ Web vulnerability scanner
- ✓ Scheduled & repeat scans
- ✓ Unlimited scalability
- ✓ CI integration
- ✗ Advanced manual tools
- ✗ Essential manual tools

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Professional

\$399.00 per user per year

- ✓ Web vulnerability scanner
- ✗ Scheduled & repeat scans
- ✗ Unlimited scalability
- ✗ CI integration
- ✓ Advanced manual tools
- ✓ Essential manual tools

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Community

For researchers and hobbyists

- ✗ Web vulnerability scanner
- ✗ Scheduled & repeat scans
- ✗ Unlimited scalability
- ✗ CI integration
- ✗ Advanced manual tools
- ✓ Essential manual tools

Download

Damn Vulnerable Web Application (DVWA)

- Damn Vulnerable Web App (DVWA) is a PHP/MySQL web application that is damn vulnerable
- Main goals:
 - to be an aid for security professionals to test their skills and tools in a legal environment,
 - help web developers better understand the processes of securing web applications,
 - and aid teachers/students to teach/learn web application security in a class room environment

Damn Vulnerable Web Application (DVWA)

- Default username: admin
- Default password: password
- DVWA is already bundled with Metasploitable 2

THC Hydra

- THC Hydra is a tool to guess/crack valid username/password pairs
- In our Lab exercise, Hydra will be used to crack the password of a specific user
- Hydra requires
 - HTTP method (e.g. POST, GET)
 - address of login page
 - failed login message