

SANS Pen Test Austin

MARCH 27 - APRIL 1, 2017 | AUSTIN, TX

Courses offered:

- SEC401 • SEC550 • SEC617
- SEC504 • SEC560 • SEC642
- SEC542 • SEC562 • SEC660

3 Nights of SANS NetWars Experience

1 Night of CyberCity Missions

Coin-A-Palooza:
Your chance to earn up to 5 SANS Pen Test Challenge Coins

sans.org/event/pentest2017

SANS HackFest

November 2017 For more information: www.sans.org/hackfest

SUMMIT

2-DAYS
20+ SPEAKERS
PANELS

TRAINING

6-DAYS
PEN TEST COURSES

NETWARS EXPERIENCE

with Coin-A-Palooza

www.sans.org/netwars

CYBERCITY

87 SCALE, ICS/SCADA-ENABLED PHYSICAL MODEL CITY
Offensive & Defensive Missions

www.sans.org/netwars/cybercity

"This is my favorite event each year. We throw everything we have into it to make it special, and I do hope you decide to attend!" - Ed Skoudis, SANS

COIN-A-PALOOZA

Each SANS Pen Test Course includes a final full day (Day 6) of hands-on computer security challenges that hammer home the lessons taught throughout the entire course. The top winners in each course of this full-day Capture-the-Flag event receive the much-coveted challenge coin associated with the course. Each coin is unique for its associated course, with a custom logo, a special tag line, and a theme. Coins are available for SANS SEC504, SEC542, SEC560, SEC561, SEC573, SEC575, SEC617, SEC642, SEC660, and SEC760 courses, as well as the SANS NetWars Challenge. The prize coin congratulates the victors on their accomplishment and challenges them to further use their award-winning skills to make a positive difference in their workplace and career.



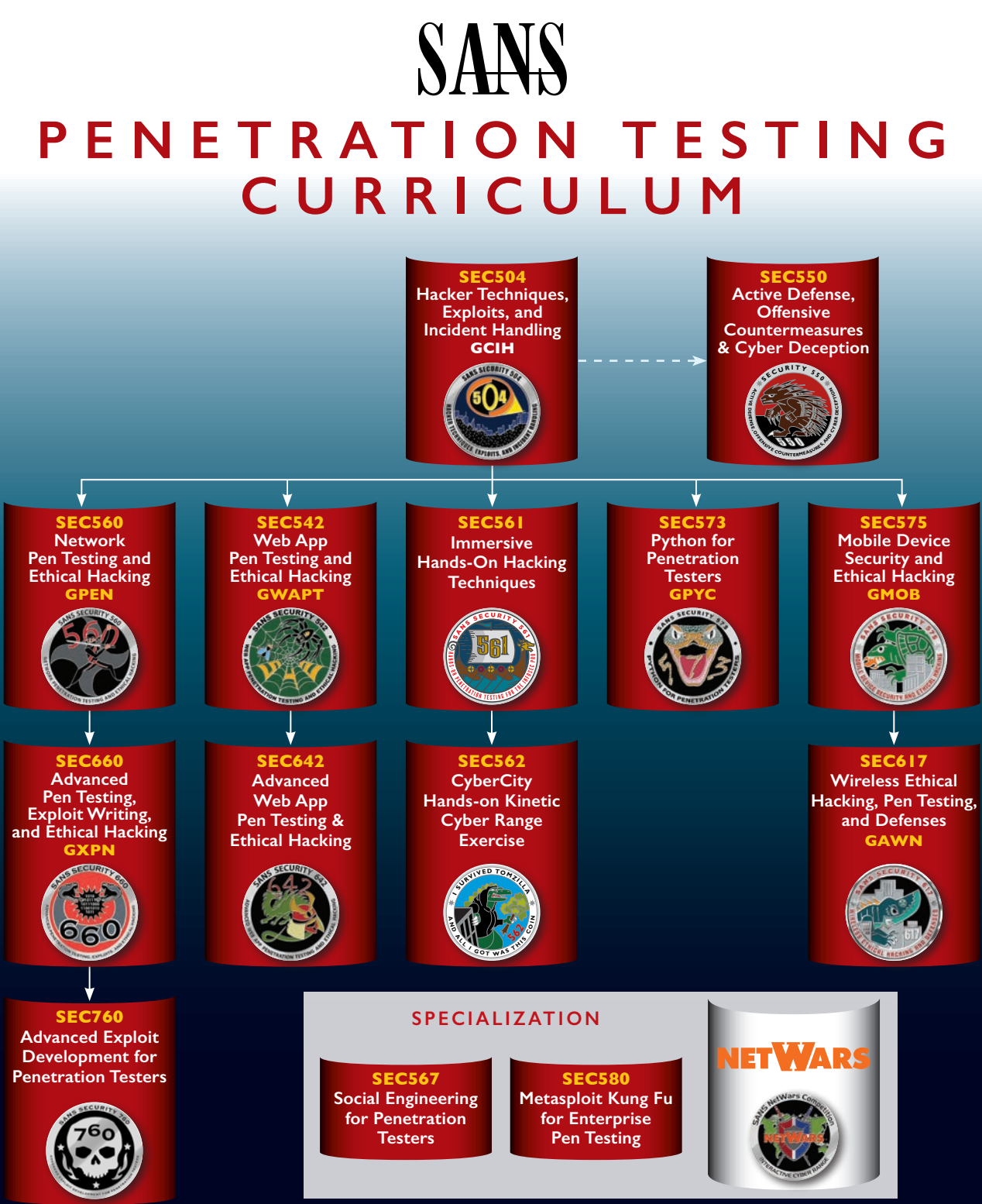
SANS PENETRATION TESTING

Attack Surfaces, Tools, and Techniques

POSTER

This poster presents:

- Tools and techniques that every security professional should know to maximize the value of your pen testing and vulnerability assessment work
- In-depth network diagrams with various attack surfaces every enterprise must defend, as well as world-class pen test techniques to assess each vector
- A detailed mind map of sites and distributions you can use to practice your skills and keep them sharp
- A list of awesome resources for keeping your skills current
- A description of the SANS Pen Test Challenge Coins for our Capture the Flag winners
- An overview of the in-depth, hands-on, skill-driven courses in the SANS Pen Test Curriculum



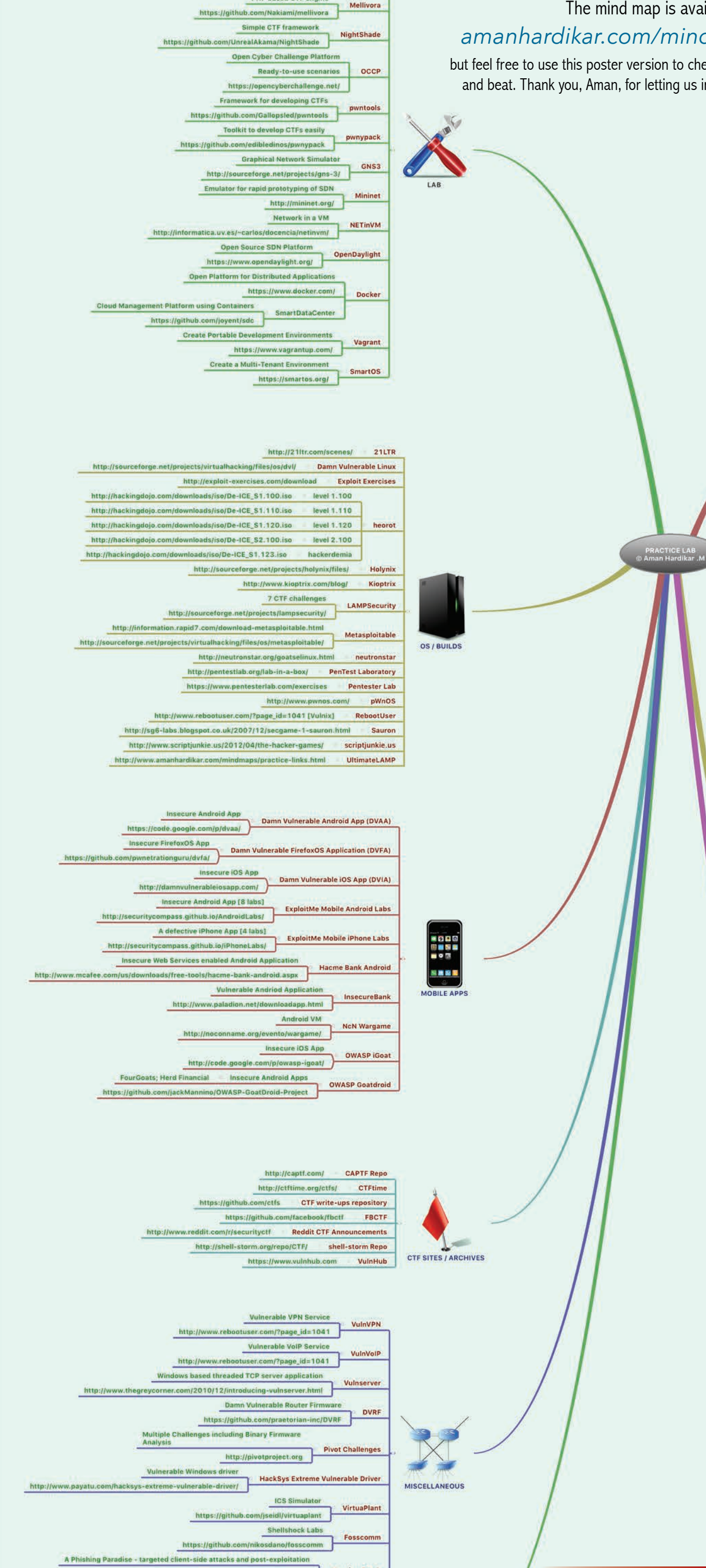
PENETRATION TESTING PRACTICE LABS

Vulnerable Apps/Systems

Created by Aman Hardikar .M
Building your skills through hands-on lab experimentation is vital in the life of a penetration tester. Aman Hardikar .M built a hugely useful mind map showing various free, publicly available distributions, challenges, and other resources for practicing your skills.

The mind map is available online at: amanhardikar.com/mindmaps/Practice.html

but feel free to use this poster version to check off the practice labs you've visited and beat. Thank you, Aman, for letting us include the mind map on this poster.



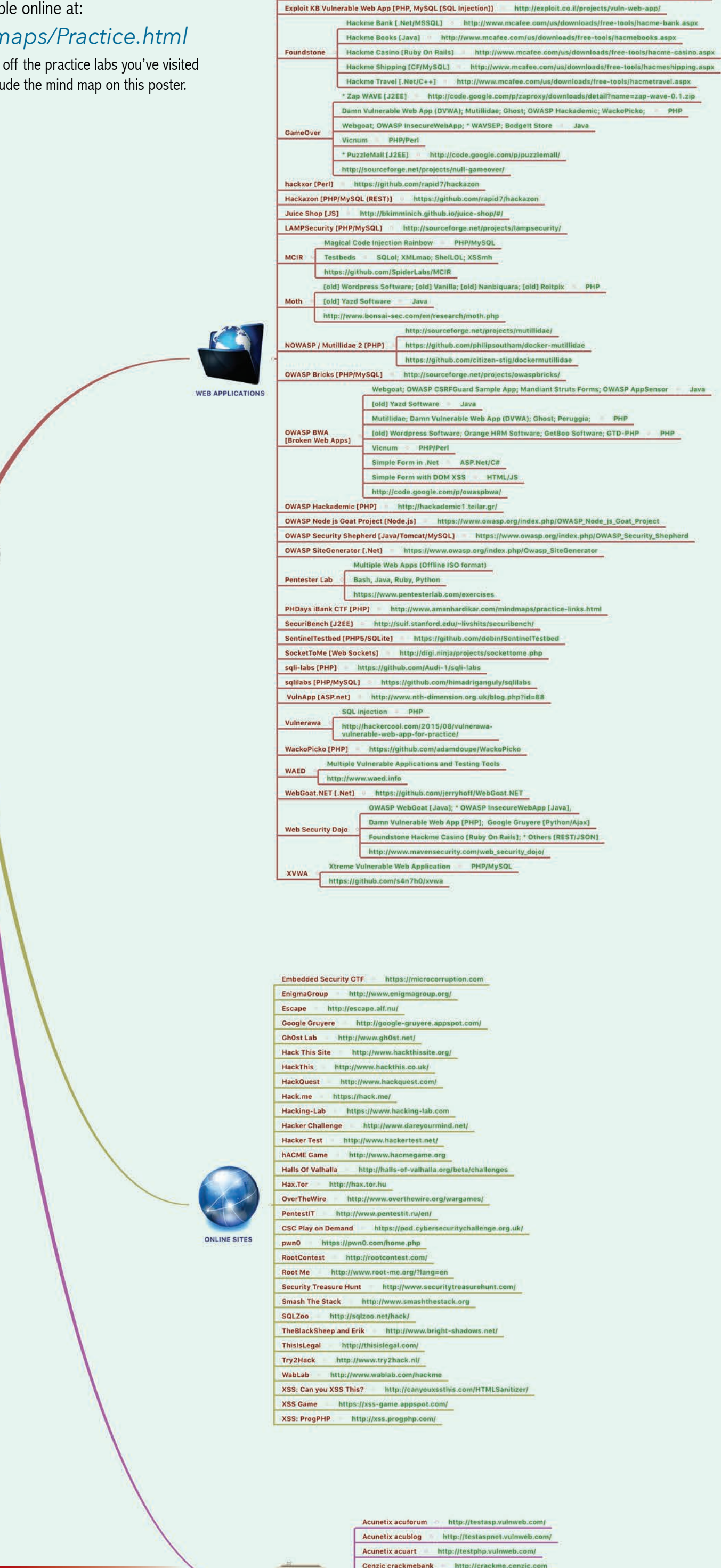
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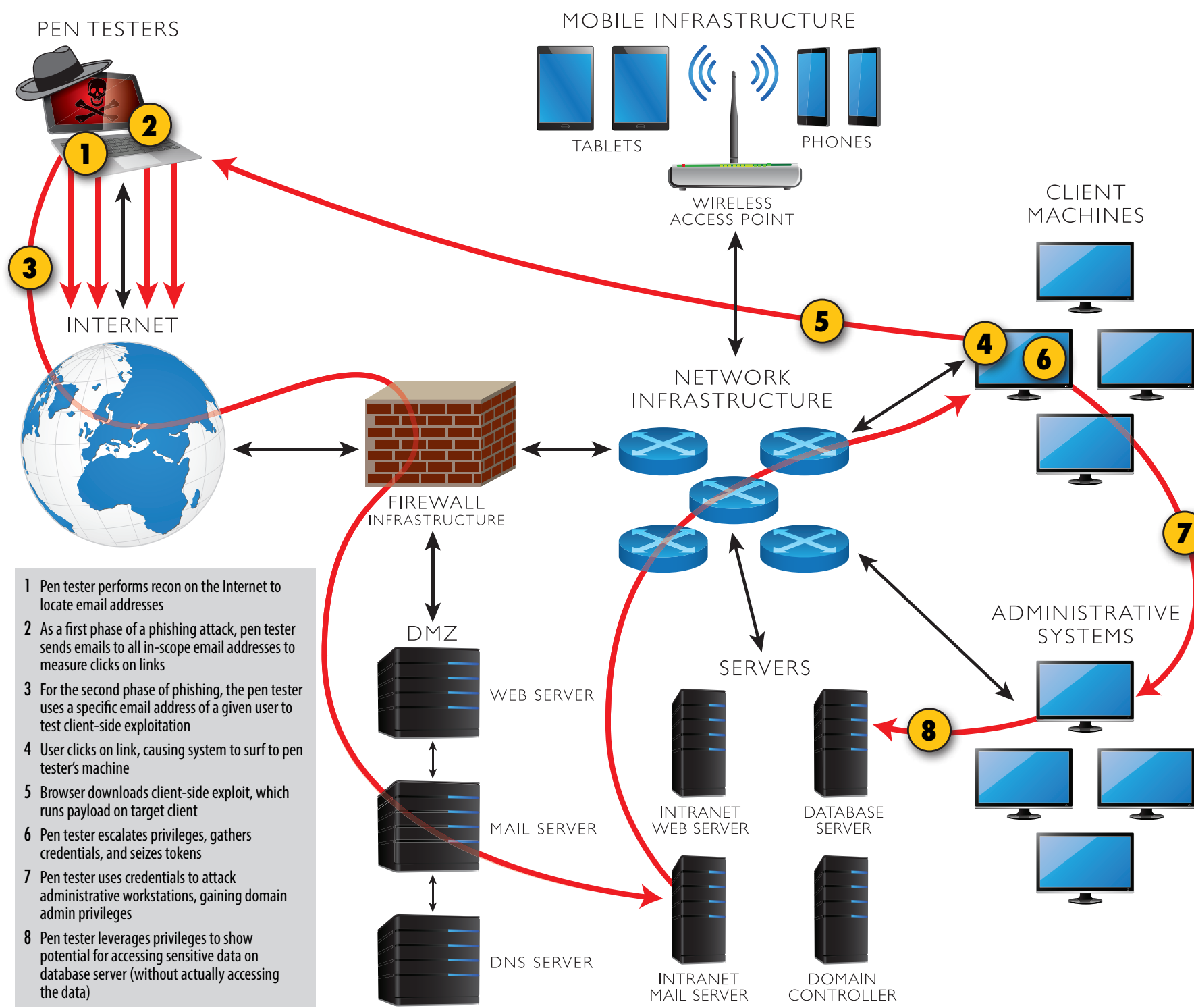
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NETWORK PENETRATION TESTING

by Ed Skoudis

- GOAL**
Determine whether sensitive data on the intranet could be compromised
- TOOLS AND TECHNIQUES APPLIED**
- Recon-ng (Step 1)
 - Social Engineering Toolkit (Steps 2 and 3)
 - Metasploit (Step 5)
 - Meterpreter (Step 6)
 - Mimikatz (Step 6)
 - Lateral movement and pass-the-hash (Steps 6, 7, and 8)
 - Detailed post-exploitation analysis (Step 8)
- RELATED SANS COURSES**
- SEC504
 - SEC560
 - SEC561
 - SEC62
 - SEC80



SANS Penetration Testing

Attack Surfaces, Tools, and Techniques

Effective penetration testing involves modeling the activities of real-world attackers with the goal of better understanding and managing business risk to improve an organization's security stance. Real-world attackers undermine modern organizations in a variety of ways, so penetration testers need to be prepared to draw from a variety of different attack types, tools, and techniques to simulate the activities of real-world attackers. Skilled penetration testers are familiar with numerous different attack types, and strive to build and reinforce their capabilities in each of these areas. Each diagram on this poster shows how different penetration testing techniques and tools can be applied to assessing the security stance of the same organization's infrastructure.

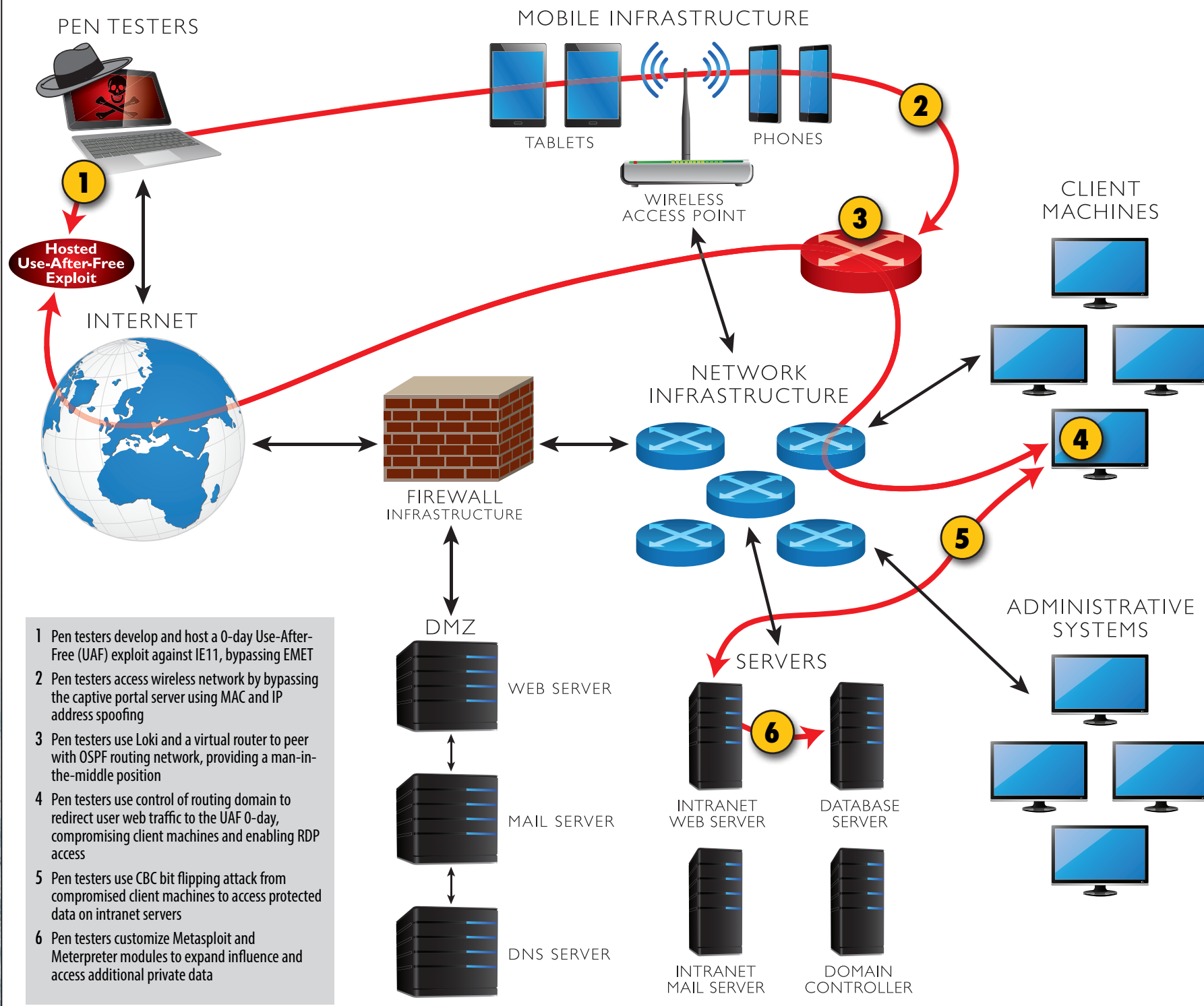
pen-testing.sans.org

Twitter: @SANSPenTest Blog: pen-testing.sans.org/blog Free Pen Testing Resources: pen-testing.sans.org

ADVANCED NETWORK PEN TESTING

by Steve Sims

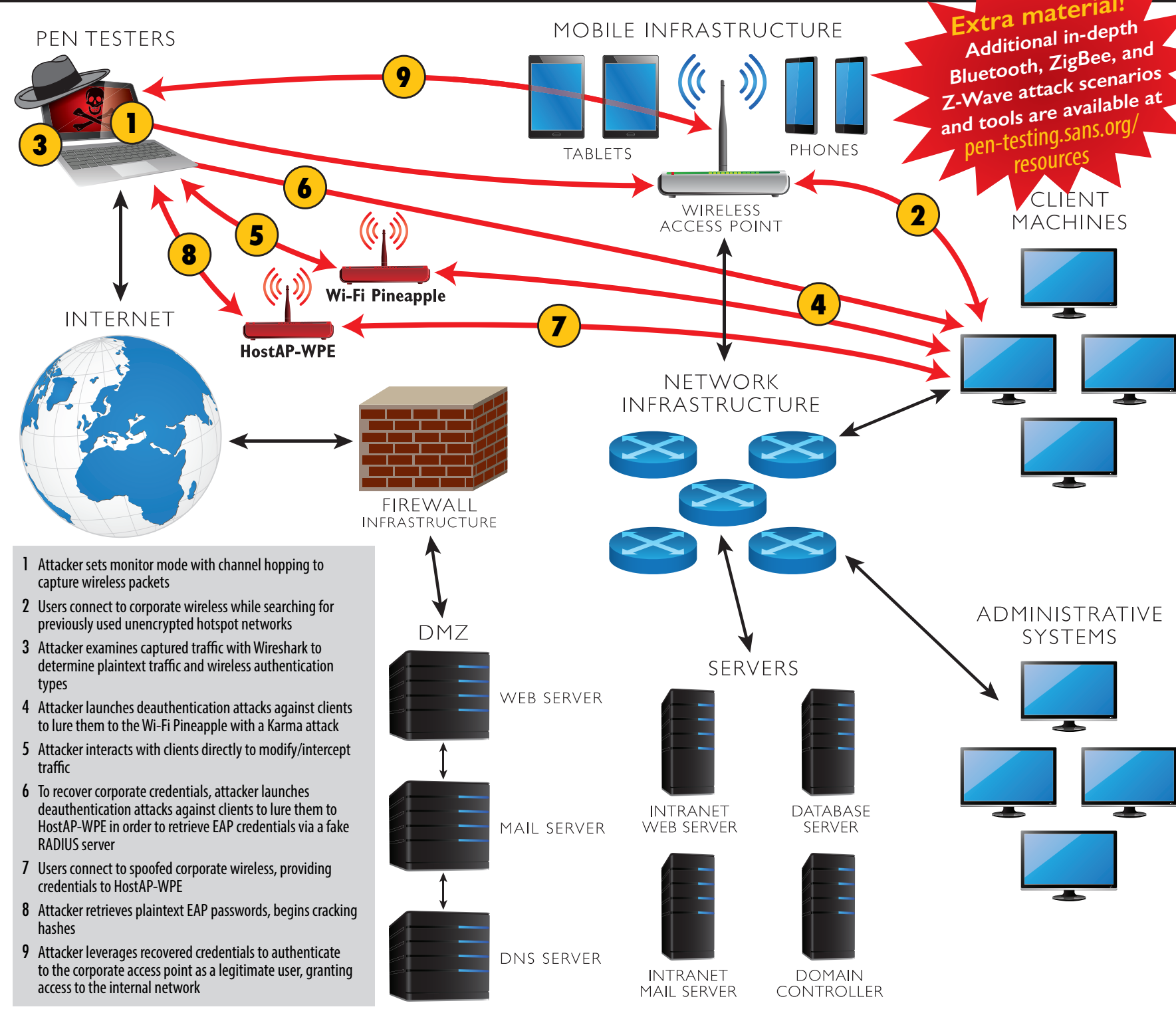
- GOAL**
Demonstrate multiple weaknesses in an organization's defense-in-depth architecture
- TOOLS AND TECHNIQUES APPLIED**
- WinDbg & Fuzzing (Step 1)
 - cpcam (Step 2)
 - Loki & Dynamiqs (Step 3)
 - Custom-developed 0-day exploit & RDP (Step 4)
 - Browser & Python (Step 5)
 - Ruby, Metasploit & Meterpreter (6)
- RELATED SANS COURSES**
- SEC660
 - SEC760



WIRELESS PENETRATION TESTING

by Larry Pesce

- GOAL**
Evaluate access to internal network via corporate Wi-Fi leveraging all manner of wireless client systems
- TOOLS AND TECHNIQUES APPLIED**
- Kismet (Step 1)
 - Wireshark (Step 3)
 - Airon-ng & aireplay-ng (Step 4 & 6)
 - Wi-Fi Pineapple (Step 4)
 - Metasploit & Ettercap (Step 5)
 - HostAP-WPE (Step 7)
 - Hashcat, Asleep & Pass the Hash (Step 8)
 - Authenticate to corporate AP (Step 9)
- RELATED SANS COURSES**
- SEC575
 - SEC560
 - SEC617
 - SEC642

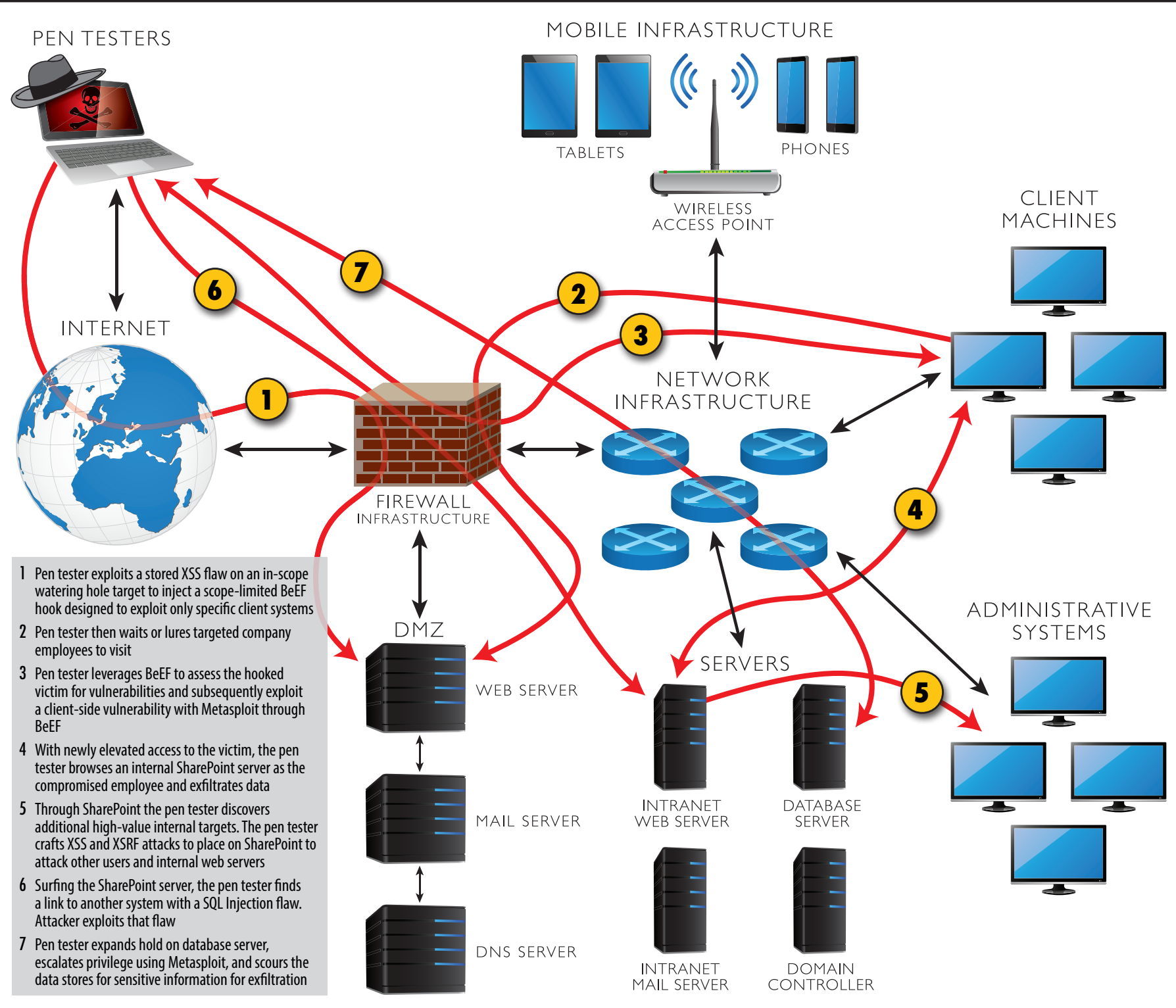


Extra material!
Additional in-depth Bluetooth, ZigBee, and Z-Wave attack scenarios and tools are available at pen-testing.sans.org/resources

WEB APP PENETRATION TESTING

by Seth Misenar and Justin Searle

- GOAL**
Determine whether sensitive data on the intranet could be compromised
- TOOLS AND TECHNIQUES APPLIED**
- Burp Suite Pro / Zed Attack Proxy (ZAP) (Steps 1-7)
 - Browser Exploitation Framework (BeEF) (Steps 1 & 3)
 - Cross-Site Request Forgery (XSRF/CSRF) (Step 5)
 - sqlmap (Steps 6 & 7)
 - Metasploit (Step 3 & 7)
 - Pen Tester written HTML5 code (Steps 1 & 5)
 - Cross-Site Scripting (XSS) (Steps 1, 3 & 5)
 - SQL Injection (Steps 6 & 7)
- RELATED SANS COURSES**
- SEC542
 - SEC560
 - SEC561
 - SEC642



MOBILE PENETRATION TESTING

by Joshua Wright

- GOAL**
Leverage weaknesses in mobile devices to harvest sensitive data, gain a foothold in corporate systems, and propagate extended access into the network
- TOOLS AND TECHNIQUES APPLIED**
- HostAP (Step 1)
 - Aircrack-ng (Step 2)
 - Wireshark & tcpdump (Step 3)
 - Iptables & Burp Suite (Step 4)
 - Specjs & Drozer (Step 5)
 - Drozer Weasel & Metasploit (Step 6)
 - Drozer, Unix utilities, custom exploits (Step 7)
 - Elcomsoft Phone Password Breaker & Phone Viewer (Step 8)
 - Drozer modules & iPhone Configuration Utility (Step 9)
- RELATED SANS COURSES**
- SEC575
 - SEC561
 - SEC617
 - SEC660

