



Digital

Investigator

Network Intrusions

Intro to Pen Testing: NMAP and HPING

Detection

Introduction to Pen Testing

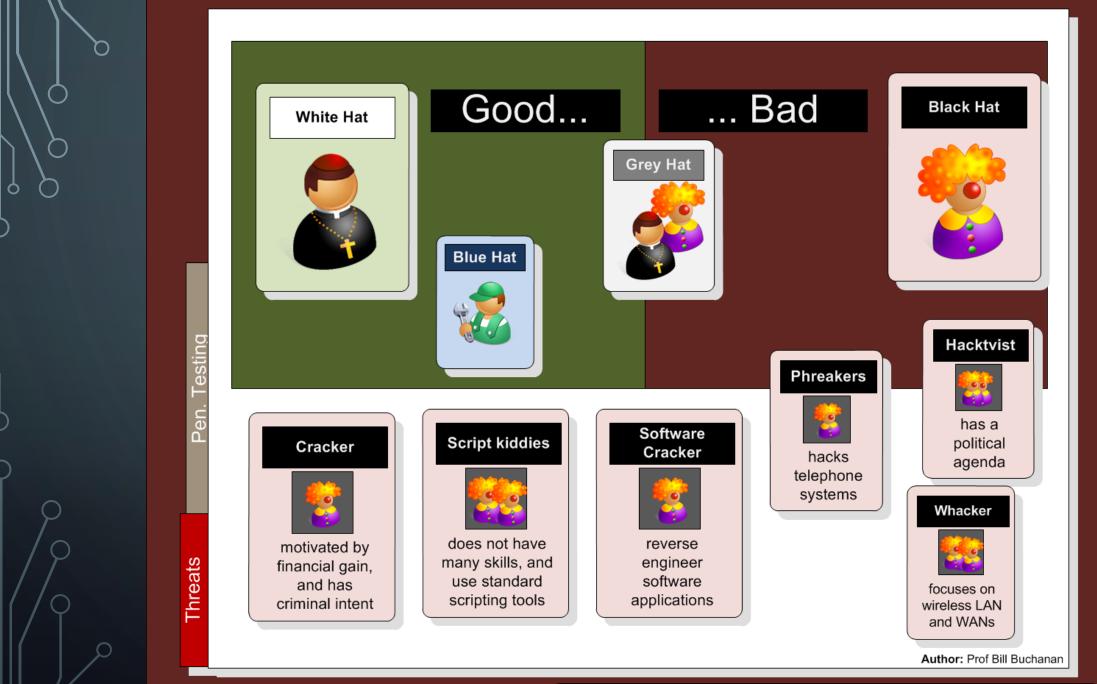
Intro to Pen Testing

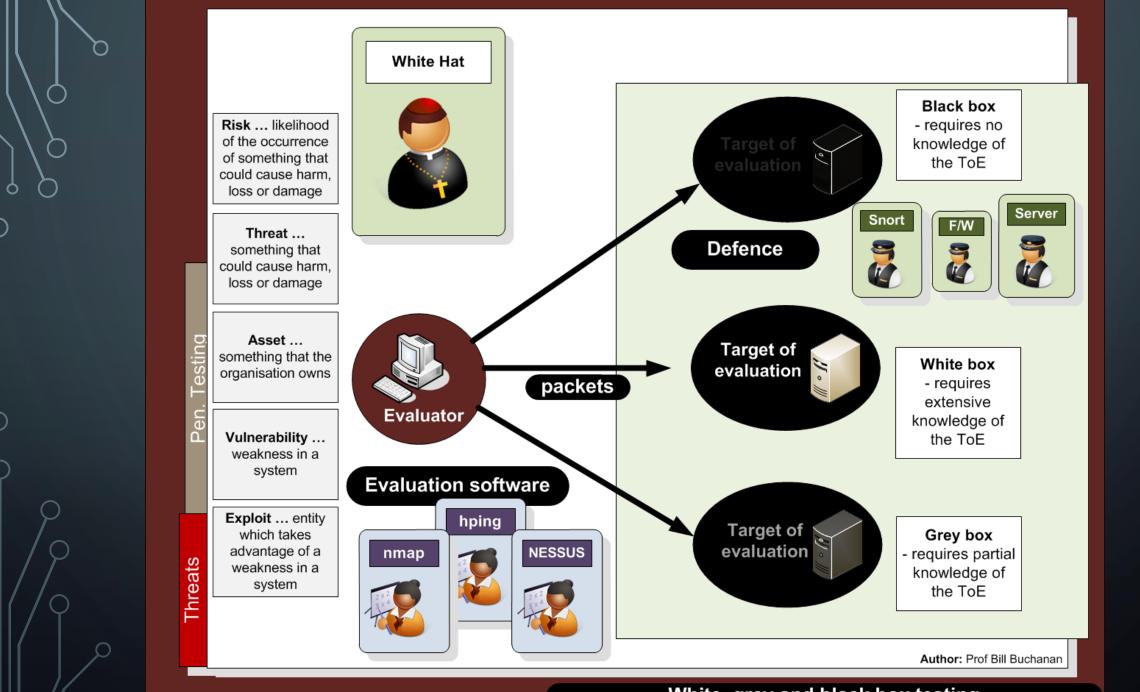
Port Scan

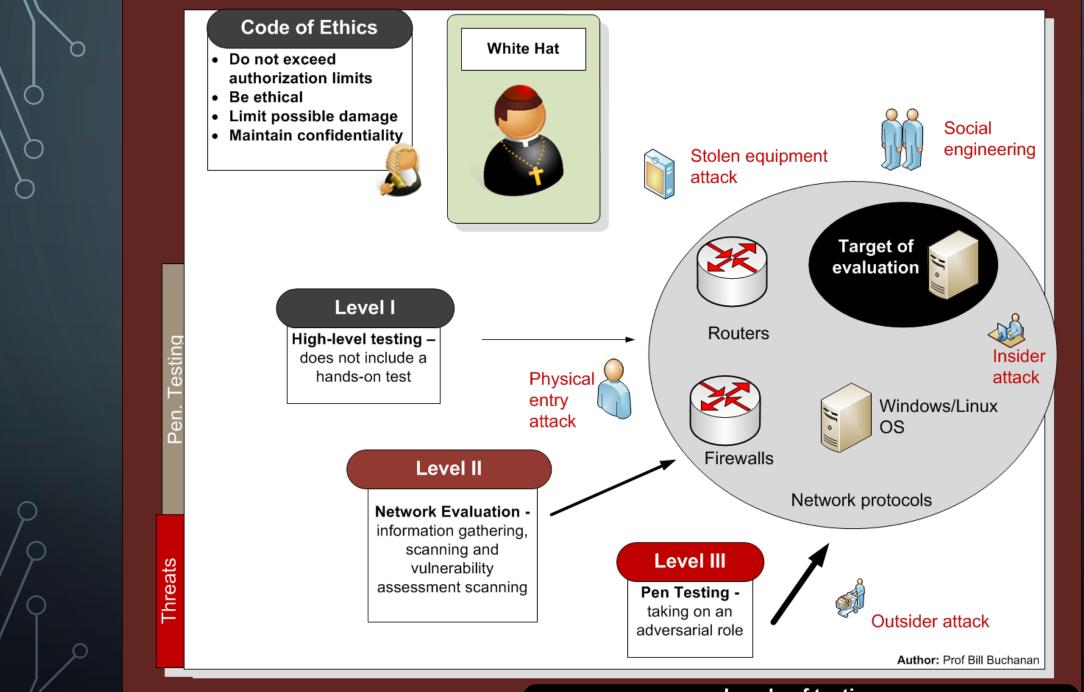
SYN Flood

Spoofed Address

Author: Prof Bill Buchanan







Pen. Testing

Threats

Confidentiality

· Only authorized entities can access sensitive data





Locked doors Armed guards Fences Firewalls **Passwords** Encryption **VPN Access**

Integrity

Network Operating System

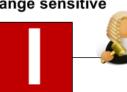
Windows File Protection

Access control

MD5 checksum

SHA-1 checksum

- Changes data by unauthorized entities is detected.
- Only authorized entities can change sensitive data







Availability

· Only authorized entities have continual access to data





Failover equipment Mirror servers

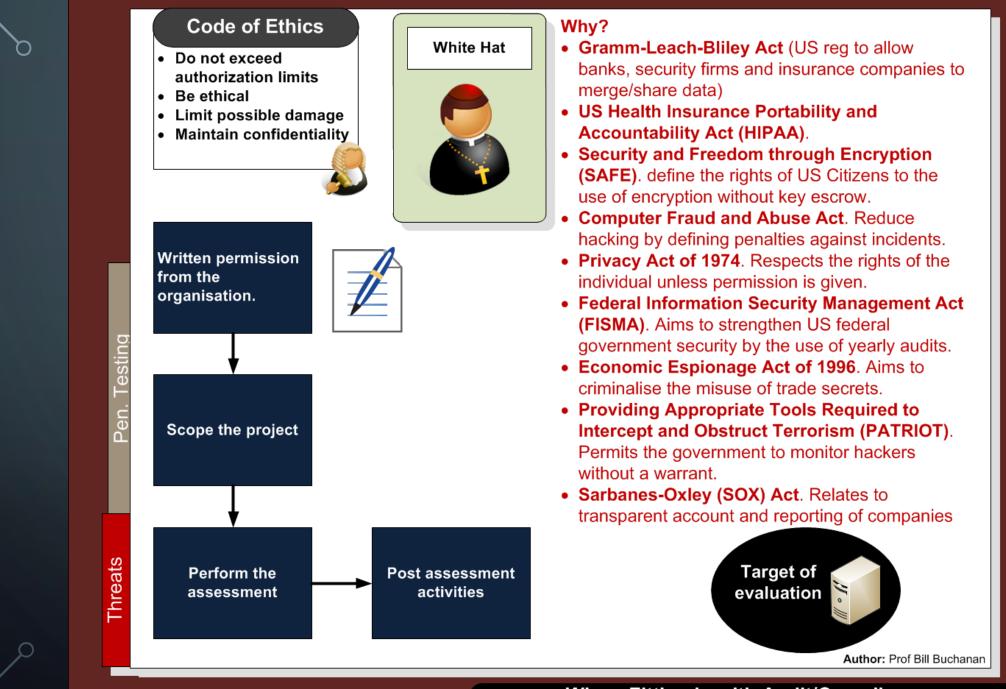


Target of

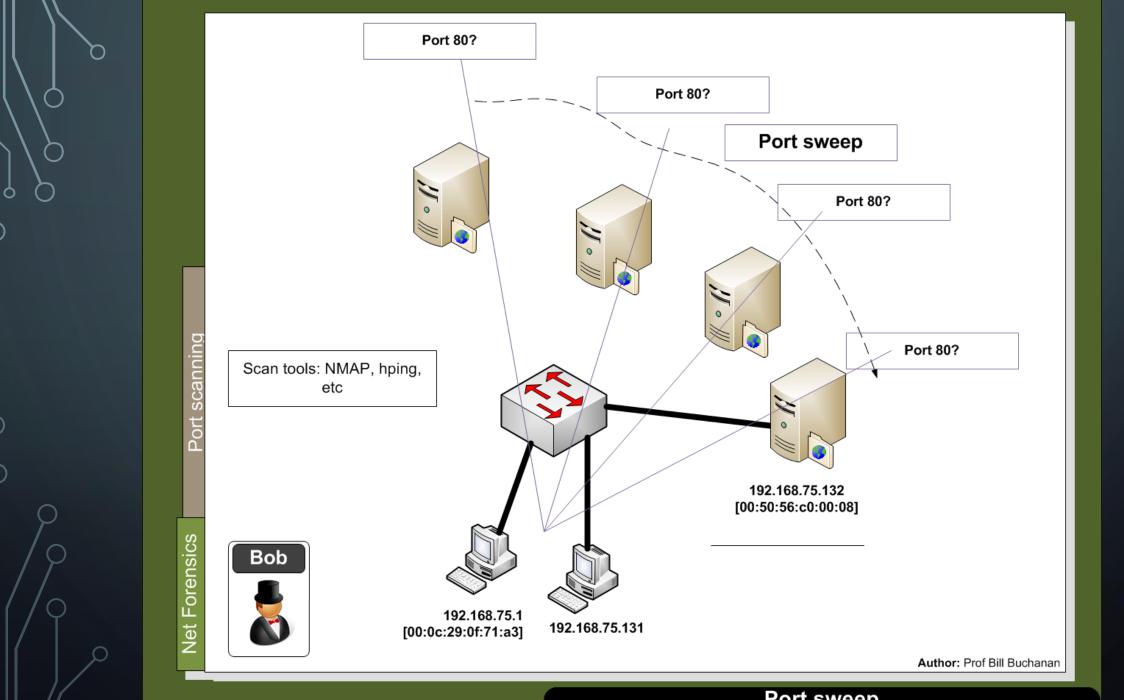
evaluation

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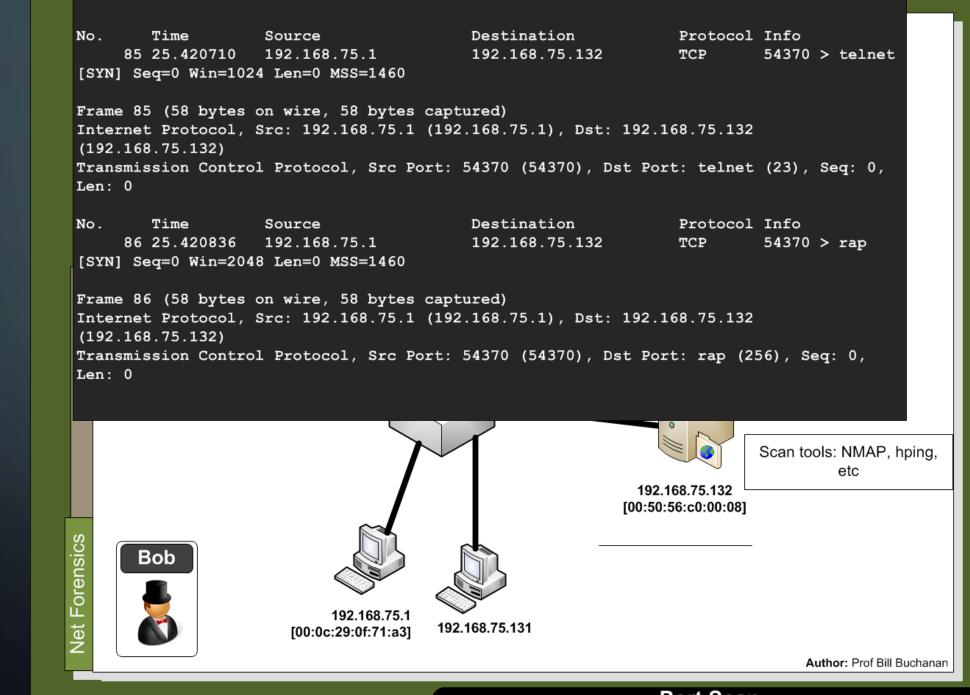




Port Scan Author: Prof Bill Buchanan



Port sweep



Port Scan

