

## **Hacking Tips & Tricks**



M.Ananthakrishnan
CEH LPT ECSA CCSA CPISI ITIL
Manager – Infosec Governance
Hexaware Technologies Limited
m.aananth@gmail.com

Copyright © The OWASP Foundation
Permission is granted to copy, distribute and/or modify this document
under the terms of the OWASP License.

+91 8939913933

# The OWASP Foundation <a href="http://www.owasp.org">http://www.owasp.org</a>

## Agenda

- □ Security Incidents
- Vulnerability Assessment
- Wireless Hacking
- Bluetooth Hacking
- Advance password hacking

## Cash is not the only motive





### APT – What is it?

A human being or organization, who operates a campaign of intellectual property theft using cyber-methods

- Malware, malware, malware



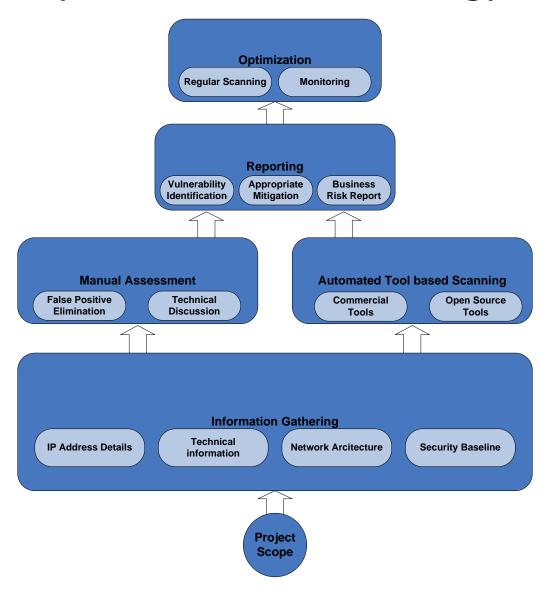




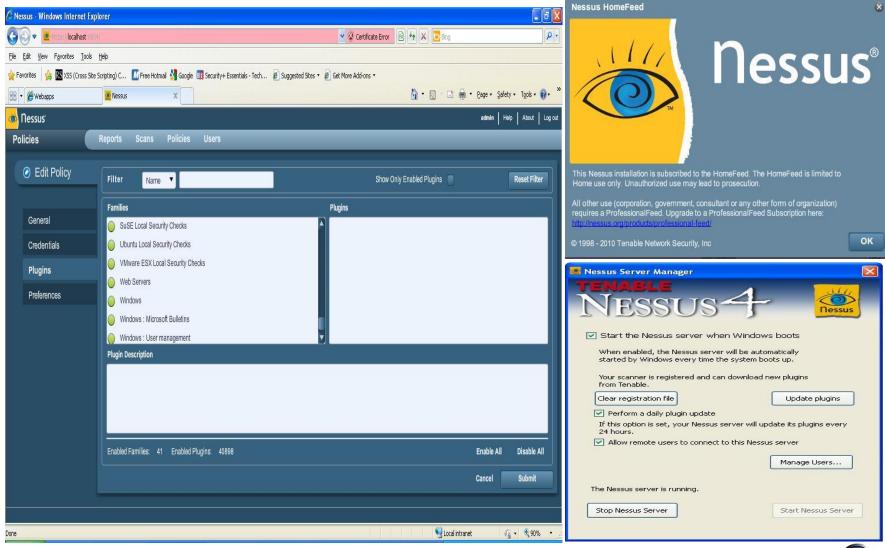
The bad guys STILL HAVE their zero day, STILL HAVE their vectors, and STILL HAVE their malware



## Vulnerability Assessment Methodology & Tools



## Vulnerability Assessment Methodology & Tools



## Wireless Usages & vulnerabilities

Wireless technology is becoming popular and at the same time has introduced several security issues. It's a cost effective solution and mobility ,Easy sharing, the same advantages turned to be the security threats.

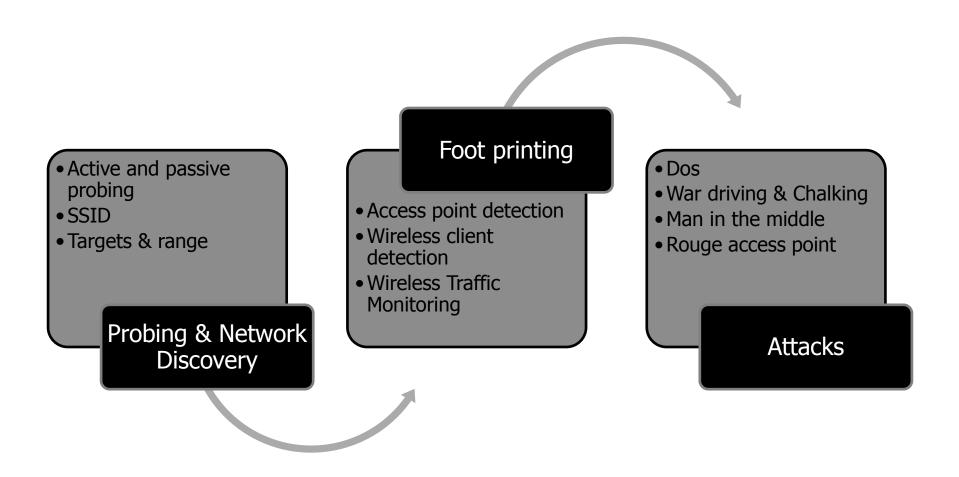
Various Wireless standards: 802.11a, 802.11b, 802.11g, 802.11i, 802.16

#### **Vulnerabilities:**

- Default Configuration
- Weak passwords
- Physically insecure locations
- Rogue access points
- Lack of network monitoring
- Insufficient network performance
- MAC address filtering
- Inadequate encryption standards
- War Driving
- Easy to eavesdrop
- Unsecured holes in the Network



## Wireless Attacking Methodology



#### How to Prevent Wireless Hacks

- Access Point Monitoring
- ☐ Wireless Client Monitoring
- General Wireless Traffic Monitoring
- Wireless IDS
- ☐ Frequent security testing

## Bluetooth Usages & Vulnerabilities

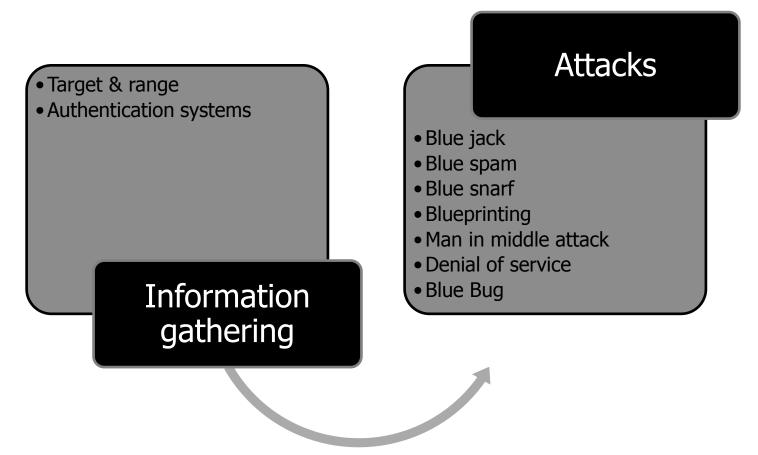
Bluetooth technology is becoming popular short-range radio link designed to connect portable and/or fixed electronic devices. Bluetooth specification defines security at the link level, allowing flexibility in the application security design. Bluetooth system provides for three basic security services: 1) Confidentiality 2) Authentication 3) Authorization

#### **Vulnerabilities:**

- Default Configuration
- Weak PINS
- Eavesdropping and Impersonation
- No user authentication
- Unsecure Master keys
- Physically insecure locations



### Bluetooth Attacking & Methodology



#### How to Prevent Bluetooth Hacks

- ☐ Switch off blue tooth when not in use
- Strong PIN codes long & dynamic
- Vendor configuration removal
- Non Discoverable Mode after paring
- ☐ Switch off unnecessary SCO/eSCO links

## Password Hacking

Dictionary Attack

Brute Force Attack

Hybrid Attack

Password Trends

## Ways to Prevent Applications from password Hacks

- ☐ Remove Guessable & vendor default
- URL String Password Disclosure
- Remove from cookies
- Account information in an Encryption database

#### Best practices

- ❖ Do not add a single digit or symbol before or after a word for example, "microsoft1"
- Do not double up a single word for example, "msoftmsoft"
- Do not simply reverse a word for example, "tfosorcim"
- Do not remove the vowels— for example, "io"
- Key sequences that can be easily repeated for example, "qwerty", "asdf" etc.
- Do not garble letters— for example, converting e to 3, L to 1, o to 0, as in "z3ro 10v3"

## **Q & A**

