

# Wireless Network Penetration Testing

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## INTRODUCTION AND WIRELESS PENETRATION TEST PROCESS OVERVIEW



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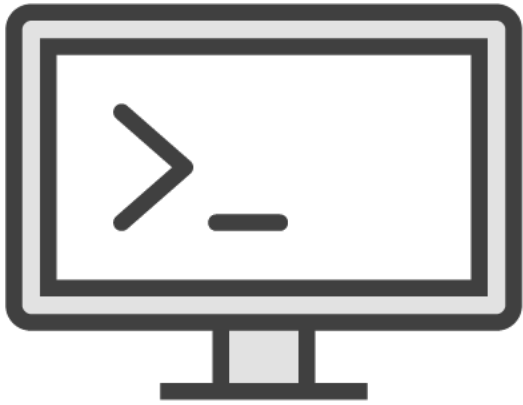
CYBER SECURITY CONSULTANT



Almost **all** companies have  
wireless networks.



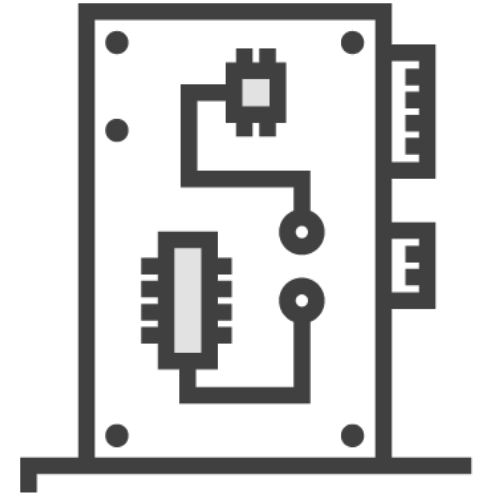
# What You Will Need



Kali Linux VM



Basic Linux knowledge



Compatible network  
card



# Module Overview



**Wireless penetration testing process  
overview**

**Pre-engagement tasks**

**Our course scenario**



# Wireless Penetration Testing Process

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# Process Overview

- 1 Initiation
- 2 Information gathering
- 3 Vulnerability identification
- 4 Exploitation
- 5 Reporting



# Initiation: Pre-engagement

**Define scope**

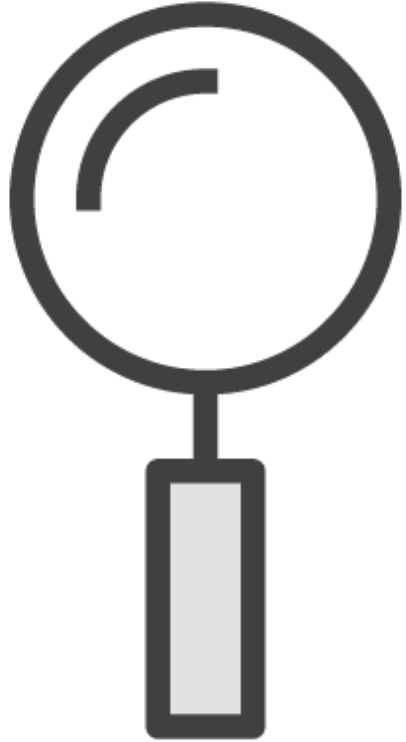
**Collect  
environment  
information**

**Schedule tests**

**Communicate to  
stakeholders**

**Get client formal  
sign-off**





## Information Gathering

Identify wireless networks

Identify network segments

Identify technologies used

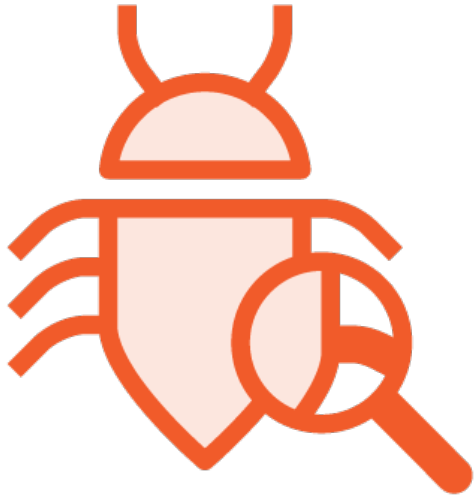
Identify protocols

Create a target list





# Vulnerability Identification

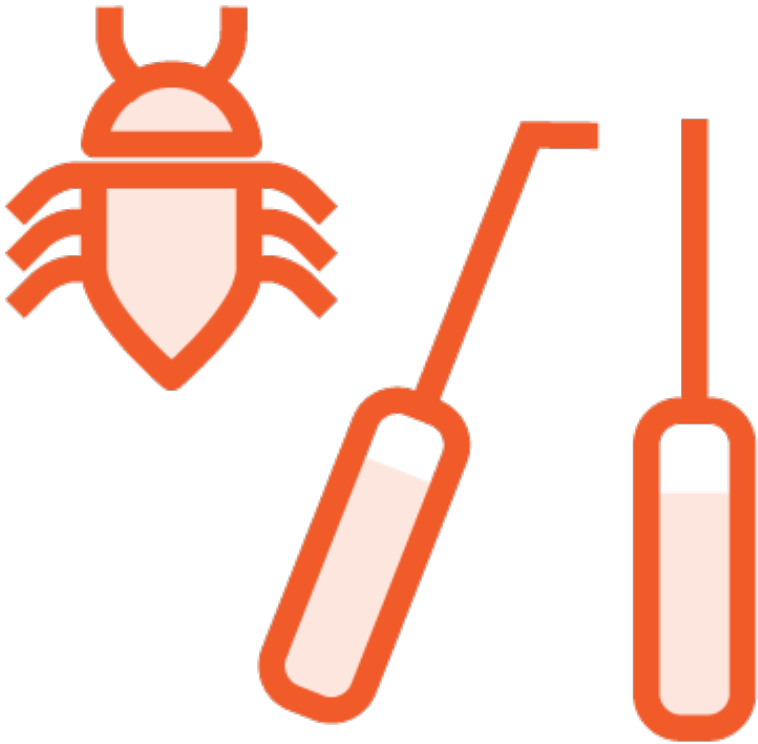


Identify potential attack vectors



Identify exploitations

# Exploitation



**Test potential vulnerabilities without breaking anything**

**Document successful attacks and potential attacks**



# Reporting



**Describe the vulnerabilities found**

**Describe potential issues**

**Describe confirmed issues**

**Define risk**

**Propose recommendations**

# Pre-engagement Tasks

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**Define scope**

**Collect environment  
information**

**Schedule tests**

**Communicate to  
stakeholders**

**Get client formal  
sign-off**

Initiation: Pre-engagement



# Globomantics Course Scenario

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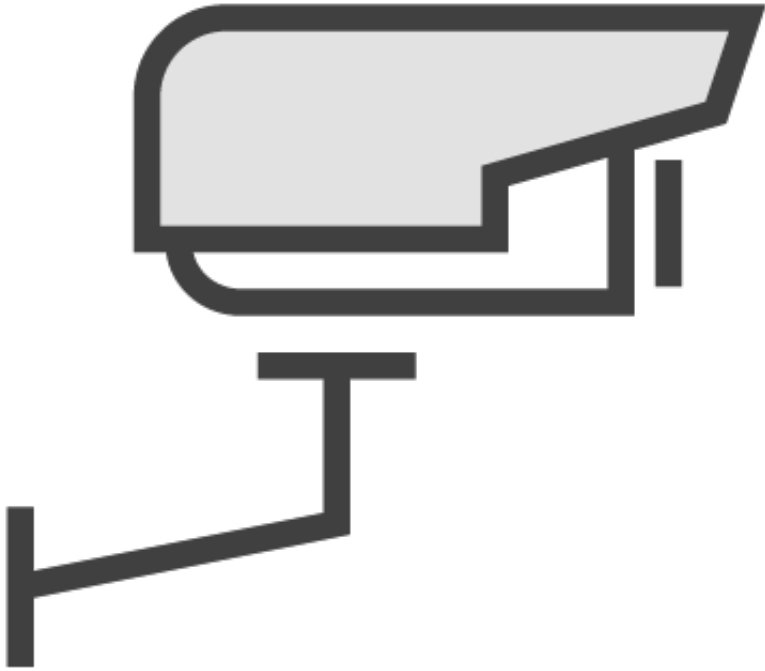
# Scope



**Analyze all the wireless networks in the company, determine the risk of the current wireless networks, and propose improvements**



# Environmental Information



GBM laptops (WPA2/WPS)

GBM cameras (WPE)

GBM guest Wi-Fi (open/portal authentication)

GBM cafeteria (open)







Schedule was agreed upon with the client



Communications were sent to IT Managers



Client signed off



Tests are ready to start

# Module Summary



It is important to follow a process

The process is composed of 5 stages:

Initiation

Information Gathering

Vulnerability Identification

Exploitation

Reporting

Pentests need to be scoped, scheduled  
and approved by the client



Next up:  
Information Gathering

