# COMPUTER NETWORKS echoEvil - PROJECT ABSTRACT

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This project aims to develop a Python based tool that performs the Evil Twin Attack. The implementation involves creating a rogue AP that spoofs the characteristics of a legitimate AP, enticing unsuspecting users to connect. The Evil Twin Attack is a particularly insidious threat, manipulating users' trust in seemingly legitimate wireless access points (APs) to intercept sensitive information.

Network Adapter: ALFA Network AWUS036NHA

## 1. Network Scanning

- The adapter(in monitor mode) scans for Wi-Fi networks nearby by capturing and searching for Dot11 packets(Wi-Fi).
- All such networks are displayed along with their SSID,BSSID and channel number.

# 2. Interception of clients' data

 A specific network is chosen and the details of the devices connected to that network are found by capturing the associated packets and are displayed.

#### 3. Deauthentication of a specific client

- Deauthentication packets are created using Scapy and are sent to the target device chosen until the device is disconnected.
- The packets are created with the source as the network to be spoofed and the client as the target device.

## 4. Rogue AP Creation

- dnsmasq: DHCP server. It assigns IP addresses to devices that connect to the fake AP.
- hostapd: Used to manage the fake AP. It provides the SSID, interface and channel number for configuration.
- IP Address for network of AP: 10.0.0.0
  Gateway:10.0.0.1

### 5. Capturing information

- Once the device connects to the fake AP, the captive portal is opened where the user enters details for "logging in".
- These details are captured and stored in a file.
- After this, the adapter is switched back to managed mode(normal mode).