

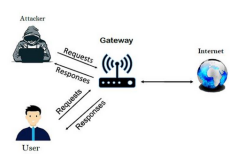
CYBER BULLETIN

Man-in-the-Middle(MITM)Attack

Wi-Fi MITM Attacks

1.

PACKET SNIFFING



TARGET: Devices connected to unsecured public Wi-Fi network like laptops, smartphones & tablets.

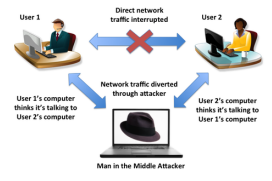
IMPACT: Hackers can steal data, track online activity, send you to fake websites, or infect device with viruses.

MITIGATION: Use secure websites (HTTPS), turn on strong Wi-Fi security (WPA3/WPA2), avoid public Wi-Fi or use a VPN, block unknown devices.

LAN-Based MITM Attacks

2.

ARP SPOOFING



TARGET: Devices connected on a local network, including computers, routers, and servers..

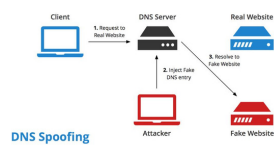
IMPACT: Hackers can steal data, spy on online activities, or block internet access.

MITIGATION: Use strong network security, enable encryption (VPN, HTTPS), and monitor for unusual network activity.

MITM Via Fake DNS Responses

3.

DNS SPOOFING



TARGET: Users unknowingly visiting fake websites.

IMPACT: Stolen passwords, phishing scams, malware, and financial fraud.

MITIGATION: Use secure DNS services (like Cloudflare or Google DNS), enable DNSSEC, and verify HTTPS before entering sensitive information.

MITM on Active Sessions

4.

SESSION HIJACKING



TARGET: Logged-in users on websites, apps, or banking portals.

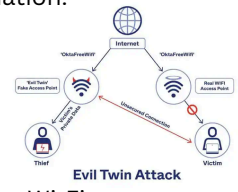
IMPACT: Hackers can hijack sessions, act as the user, and perform unauthorized actions.

MITIGATION: Use multi-factor authentication (MFA), secure cookies, and avoid public or untrusted networks.

Evil Twin Attacks

5.

ROGUE ACCESS POINTS



TARGET: Users unknowingly connecting to fake Wi-Fi networks controlled by attackers.

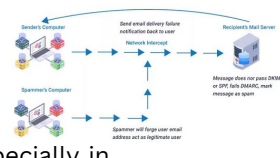
IMPACT: Hackers can steal data, capture login credentials, and inject malware into devices.

MITIGATION: Always verify Wi-Fi networks, use WPA3 encryption at home, and avoid untrusted networks.

Email MITM Attacks

6.

SMTP SPOOFING



TARGET: Email communications, especially in business and financial transactions.

IMPACT: Attackers can alter invoice details, impersonate senders, or steal confidential data.

MITIGATION: Use encrypted email protocols (TLS, PGP), verify sender identities, and avoid sharing sensitive data via email.

Use
secure
Wi-Fi
connections
when
accessing
social media.



#SecureWifi
#OnlineSafety

CYBER SAKCHHARTA ABHIYAN
UNDER THE AEGIS OF
CYBER AWARENESS CLUB
DEPARTMENT OF COMPUTER APPLICATION

FACULTY COORDINATORS
MR. SHUBHAM KUMAR | MR. FAIZAN MAHMOOD | MR. MOHD TALHA
STUDENTS COORDINATORS
MOHAMMAD FARHAN | SIDRA SIDDIQUI | ELMA SHARIQ
AREEBA KHAN | ANAMTA ANSARI

Prof.(Dr.) MOHAMMAD FAISAL
Head, Department of Computer Application