The Anatomy of a Cyber Attack

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WILSON SONSINI
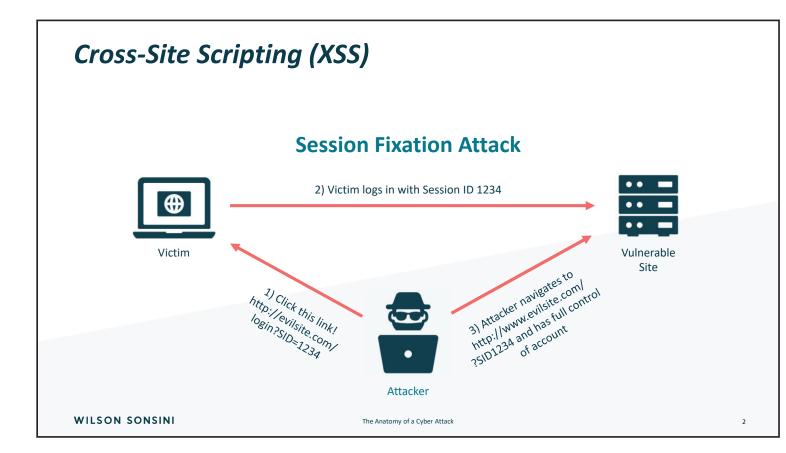

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Cookie Stealing

Cross-Site Scripting (XSS)

- Attacker finds vulnerability in a website
- Attacker injects malicious code into the website or web app so that when the page loads, the code is executed
- When the user logs in, the server authenticates the user and the browser executes the code
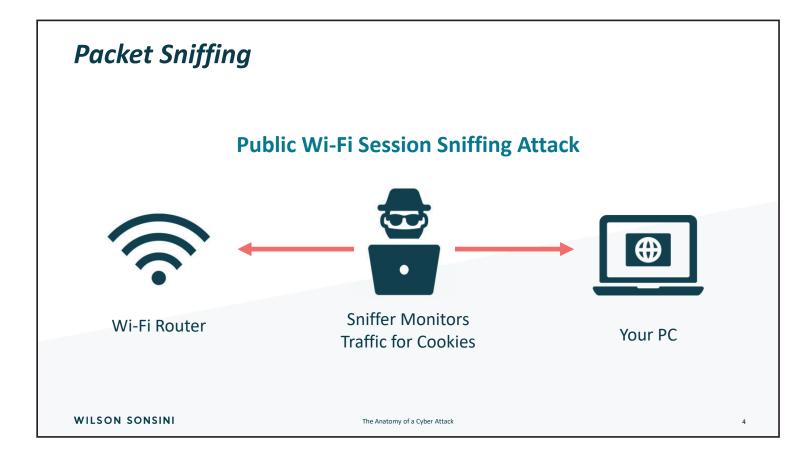- The session key is sent to the attacker who can take over the user's session

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Cross-Site Scripting (XSS)

Session Fixation Attack

2) Victim logs in with Session ID 1234

Victim

Vulnerable Site

1) Click this link! http://evilsite.com/login?SID=1234

3) Attacker navigates to http://www.evilsite.com/?SID1234 and has full control of account

Attacker

Packet Sniffing

- Attacker observes the communication between the server and the client
- Attacker intercepts the session cookie when the user authenticates
- Malware also can be designed for packet sniffing and sending the session key to the attacker

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Packet Sniffing

Public Wi-Fi Session Sniffing Attack

Wi-Fi Router

Sniffer Monitors
Traffic for Cookies

Your PC

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