

O W A S P → cheat sheets for exploits & how to avoid them

top 10 → mandatory material (at least top 5)

XSS is an ^{client-side} injection

C W E : common weakness enumeration

↳ includes top 25 (less important)

insecure design: difficult/impossible to fix, since the entire system is flawed

market promotes a lack of attention being paid to cybersecurity

cookies have

value

domain

path

expiration date/time

secure-only flag

possibly: upon browser close

first-party: cookie from this website

third-party: cookie from included resources

↳ 3rd-party: server will receive existing cookies, but cannot store new ones

search suggestions leak data for every letter typed

attacks

- 1a. rent command and control server
- 1b. buy command and control software
2. gather intelligence
3. use exploit to get foot in the door
4. choose the right malware

watering hole → attack site user is likely to visit

spear phishing

malware initiates communication, to avoid firewall blocking communication

alternative: steal VPN credentials, then connect through VPN

many devices have weak authentication mechanisms on the local network

lateral movement: movement inside the network

can also move to physical attacks

browser exploitation framework:

fingerprinting (determine browser/OS/IP, use to target certain users)

RAT = remote administration tool

OSINT = open source intelligence gathering

targeted attack steps

1. reconnaissance
2. weaponization
3. delivery
4. exploitation
5. installation
6. command & control
7. action on objectives

an attack is direct if ...

examples: N/A's (reachable from outside), twitter, USB attack, (D)DOS

opportunistic targeting: anyone can become a target