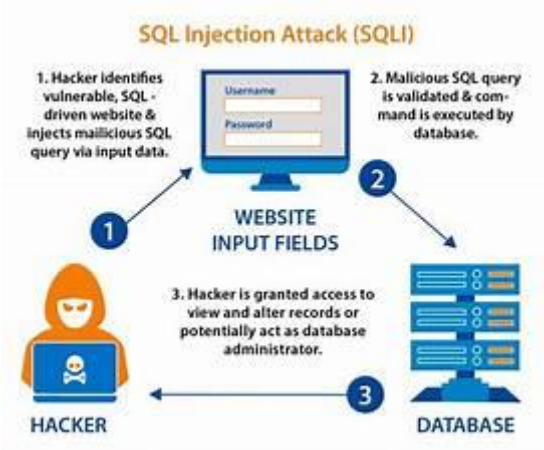
Task – 5

10 Web Server Attacks

Web Server Attacks:

Web server attacks are malicious activities designed to exploit vulnerabilities in web servers and compromise their security.

1.**SQL Injection (SQLi):** SQL Injection (SQLi) is a web attack where malicious SQL code is inserted into input fields, exploiting poor validation. This can manipulate databases, granting unauthorized access and potentially compromising data or the entire server.



2. **Cross-Site Scripting (XSS):** Attackers inject malicious scripts into web pages viewed by other users. These scripts can steal user data, session cookies, or redirect users to phishing sites.

3. **Cross-Site Request Forgery (CSRF):** Attackers trick users into performing actions they didn't intend, often by embedding malicious requests in seemingly harmless links or forms.

4. **Denial of Service (DoS)**: Attackers flood the web server with excessive traffic or resource requests, causing it to become overwhelmed and unable to respond to legitimate requests.

5. **Distributed Denial of Service (DDoS):** Similar to DoS, but involves multiple compromised systems (a botnet) attacking the server simultaneously, making it even harder to mitigate.

6**. Remote File Inclusion (RFI):** Attackers exploit insecure file inclusion mechanisms to execute arbitrary code from a remote file, potentially gaining unauthorized access to the server.

7. **Local File Inclusion (LFI):** Similar to RFI, but the attacker includes files that are already present on the server, often exposing sensitive information or gaining unauthorized access.

8. **Server-Side Request Forgery (SSRF):** Attackers manipulate a web application into making requests on behalf of the server, potentially exposing internal resources or services.

9. **Path Traversal**: Attackers manipulate input to traverse directories and access files outside of the intended directory structure, potentially exposing sensitive information.

10. **Buffer Overflow**: Attackers exploit vulnerabilities in a web application's code to overwrite parts of memory, potentially leading to unauthorized code execution.