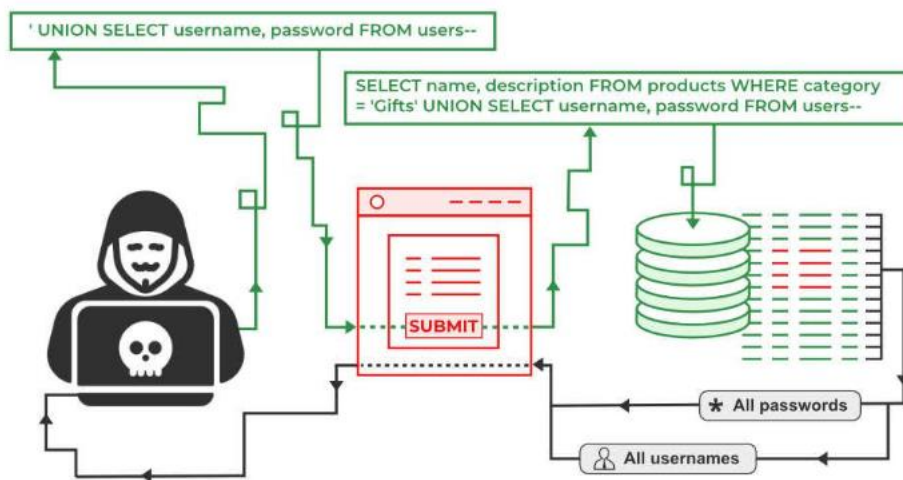


# Web server Attacks

## Week 2 Task 2

### 1. SQL Injection

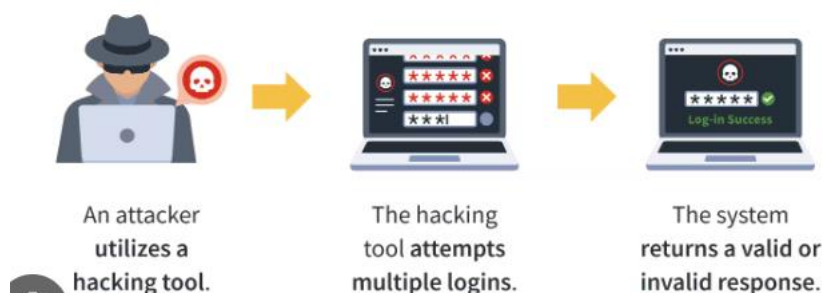


SQL injection is a code injection technique that might destroy your database. SQL injection is one of the most common web hacking techniques. SQL injection is the placement of malicious code in SQL statements, via web page input.

### 2. Brute force attack

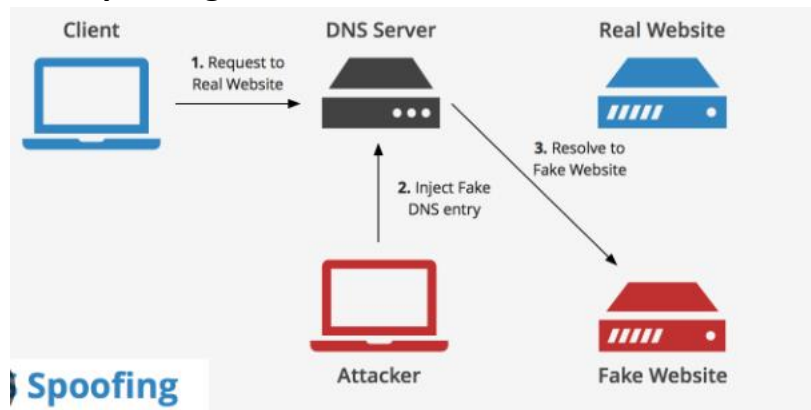
#### Brute Force Attacks Explained

In a brute force attack, a cybercriminal uses trial and error to try and break into a device, network, or website.



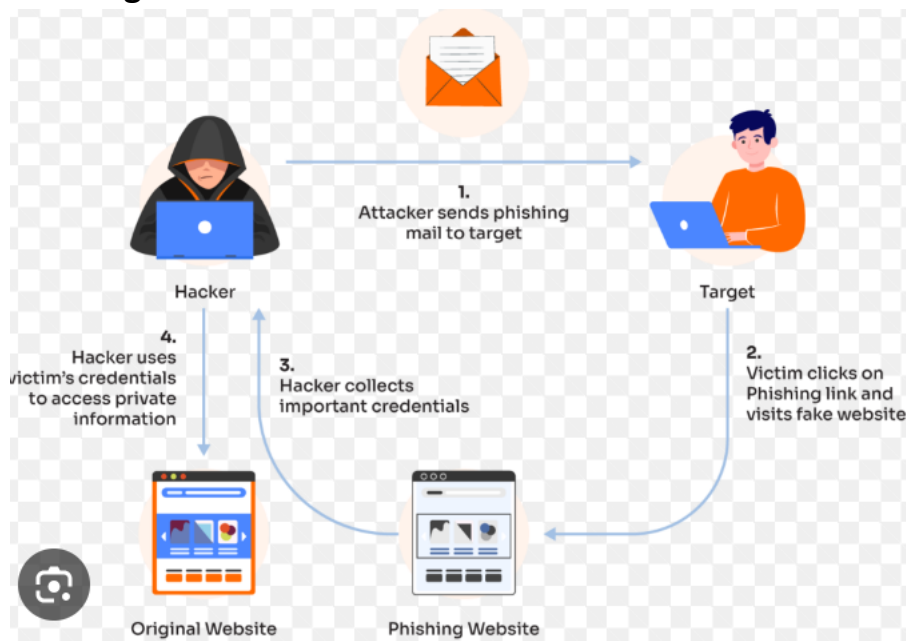
A brute force attack is a hacking method that uses trial and error to crack passwords, login credentials, and encryption keys. It is a simple yet reliable tactic for gaining unauthorized access to individual accounts and organizations' systems and networks.

### 3. DNS Spoofing



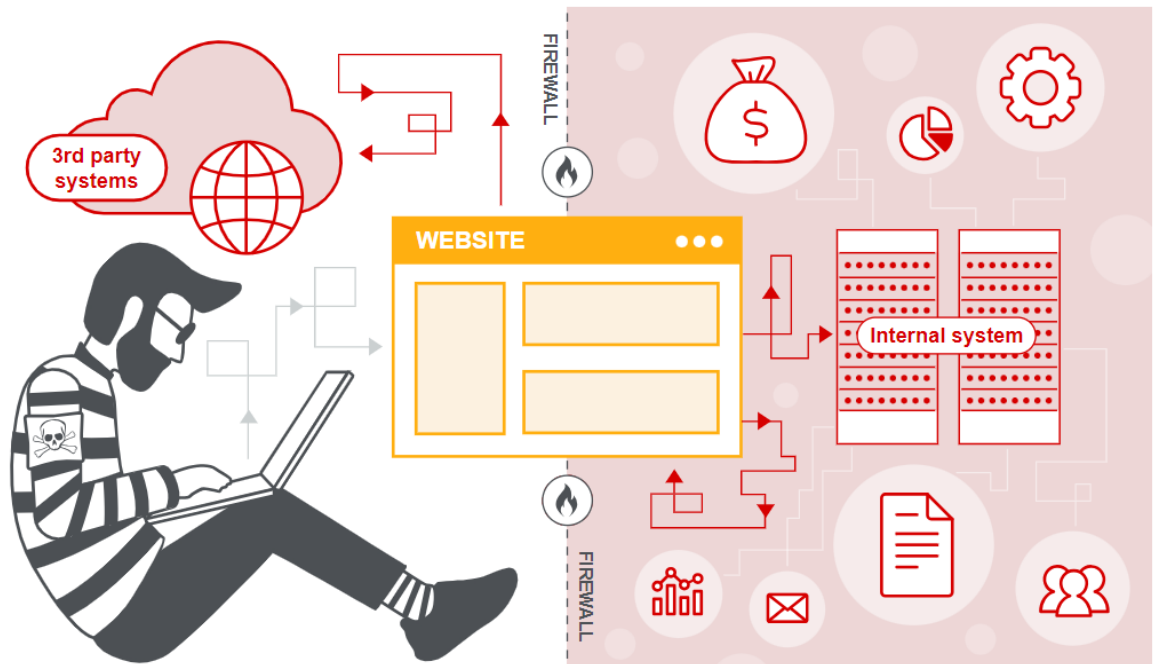
Domain Name Server (DNS) spoofing, or DNS cache poisoning, is an attack involving manipulating DNS records to redirect users toward a fraudulent, malicious website that may resemble the user's intended destination.

### 4. Phishing attack



Phishing attacks are the practice of sending fraudulent communications that appear to come from a reputable source. It is usually done through email. The goal is to steal sensitive data like credit card and login information, or to install malware on the victim's machine.

## 5. Server - side request forgery attack



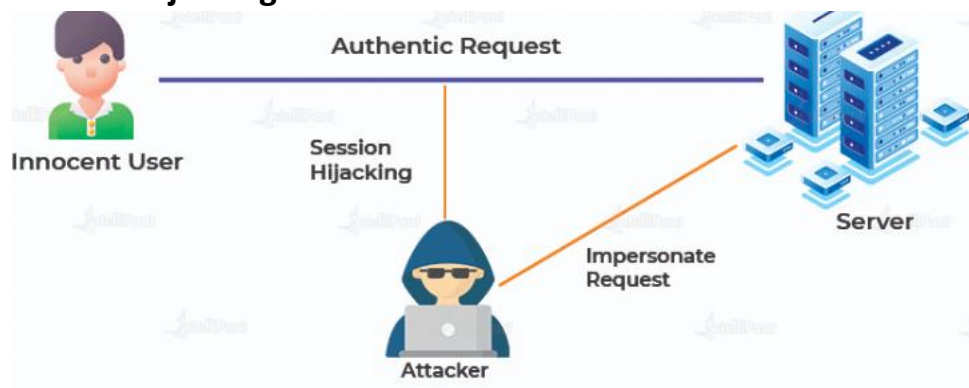
Server-side request forgery (also known as SSRF) is a web security vulnerability that allows an attacker to induce the server-side application to make requests to an unintended location.

## 6. HTTP Host header Attacks



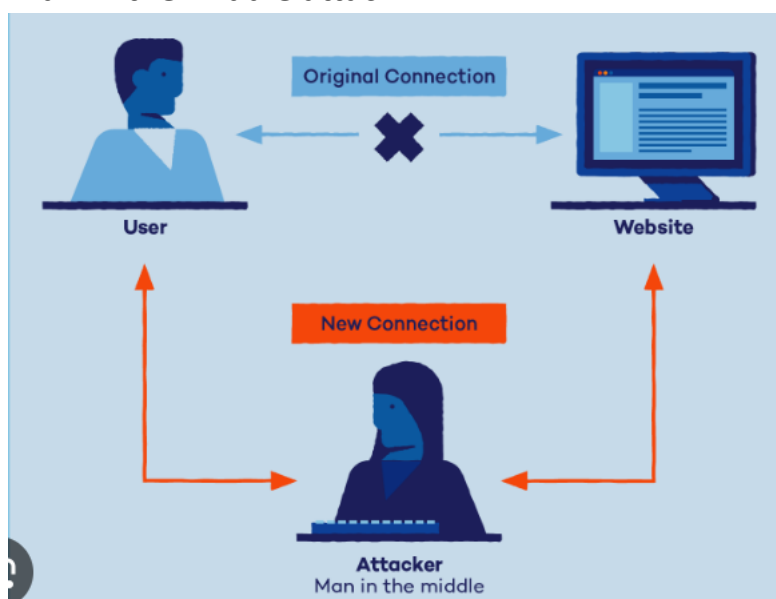
HTTP Host header attacks exploit vulnerable websites that handle the value of the Host header in an unsafe way. If the server implicitly trusts the Host header, and fails to validate or escape it properly, an attacker may be able to use this input to inject harmful payloads that manipulate server-side behavior.

## 7. Session Hijacking



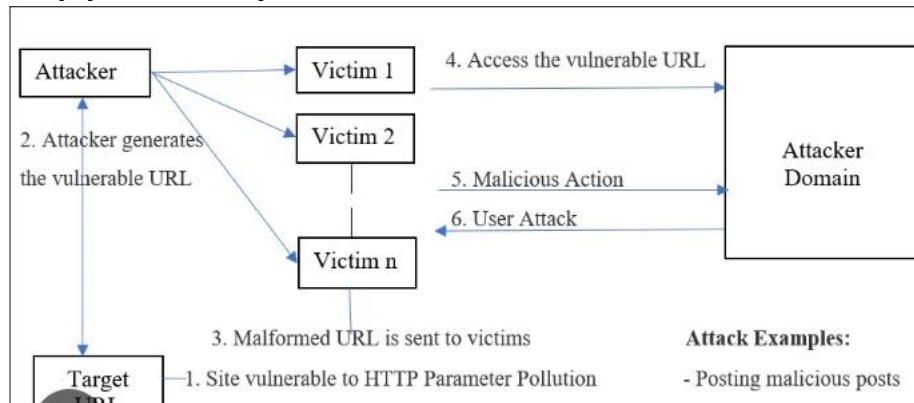
When the tracking of these states is based on poor mechanism, session hijacking becomes easy for the hackers. It is also called cookie hijacking because a web server determines the session with a user based on the cookie.

## 8. Man in the middle attack



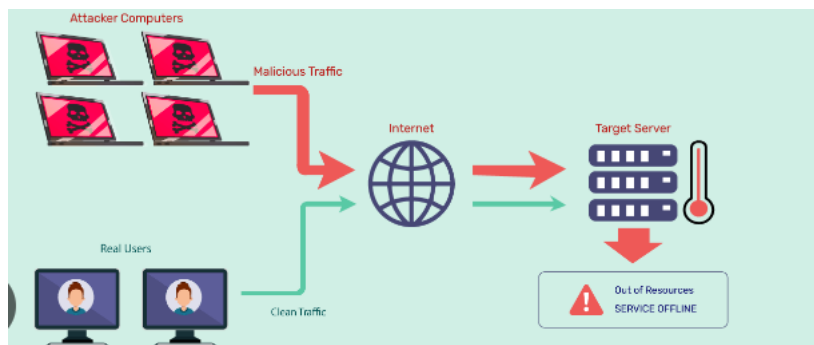
A man-in-the-middle (MiTM) attack is a type of cyber attack in which the attacker secretly intercepts and relays messages between two parties who believe they are communicating directly with each other. The attack is a type of eavesdropping in which the attacker intercepts and then controls the entire conversation.

## 9. Http parameter pollution



HTTP Parameter Pollution (HPP) is an attack evasion technique that allows an attacker to craft an HTTP request to manipulate or retrieve hidden information. This technique is based on splitting an attack vector between multiple instances of a parameter with the same name.

## 10.DDoS Attack



DDoS Attack means "Distributed Denial-of-Service (DDoS) Attack" and it is a cybercrime in which the attacker floods a server with internet traffic to prevent users from accessing connected online services and sites.