

Answer

There are ~~five~~ <sup>some</sup> common types of website or web application ~~are~~ vulnerabilities that are frequently exploited by attackers, while this isn't an exhausted list of all the possible vulnerabilities a determined attacker may find in an application, it does include some of the most common vulnerabilities websites or web application today.

## 1) SQL Injection Vulnerabilities (SQLi)

SQL injection vulnerabilities refers to areas in website code where direct user input is passed to a database. This allows the cybercriminal to access the data website in a variety of ways, including:

- Injection malicious/spam posts into a site
- Stealing customer information
- Bypassing authentication to gain full control of the website

Due to its vulnerability, SQL injection is one of the most common exploited website vulnerability. It is frequently used to gain access to open sourced content management system (CMS) application, such as Joomla, Wordpress and Drupal.

## 2) Command Injection

Command injection vulnerabilities allow attackers to remotely run and execute code on the



the websites hosting server. This is done when user input that is passed to the server, such as header information, is not properly validated, allowing attackers to include shell commands with the user information. Command injections attacks are particularly critical because they can allow bad actors to initiate the following:

- Hijack an entire site.
- Hijack an entire hosting server
- Utilize the hijacked server in botnet attacks

One of the most dangerous and widespread command injection vulnerabilities was the shelllock vulnerability that impacted most Linux distributions.

### 3) Cross-Site Request Forgery (CSRF)

These attacks are less common, but can be quite jeopardous. CSRF attacks trick the site users or administrators to unknowingly perform information malicious actions for the attackers. As a result, attackers may be able to take the following actions using valid user input:

- Change order values and product prices
- Transfer funds from one account to another
- Change user password to hijack accounts

These types of attacks are particularly vexing for e-commerce and banking sites where attackers can gain access to sensitive financial information.

A CSRF attack was recently used to seize all control of a Brazilian bank's DNS setting for over five hours.



#### 4) Cross-Site Scripting (XSS) ?

It occurs when attackers inject scripts through unsanitized user input or other fields on a website to executed code on a website. Cross site scripting is used to target website visitors, rather than the website server itself. This often means attackers are injecting javascript on the website, so that the script is executed in the visitors browser. Browsers are unable to discern whether or not the script is intended to be part of the website resulting in malicious actions including.

- Session hijacking
- Spam content being distributed to unsuspecting visitors
- Stealing session data.

Some of the largest scale attacks against Wordpress have been from cross-site scripting vulnerabilities. However, XSS is not limited only to open source applications. Recently, a cross-site scripting vulnerability was found in gaming giant Steam's system that potentially exposed login credentials to attackers.