

CROSS SITE SCRIPTING



Cross-Site Scripting (XSS) is a security vulnerability that allows attackers to inject malicious scripts into web pages, which are then executed in the browser of unsuspecting users. There are **three main types of XSS** vulnerabilities:

1. **Reflected XSS**
2. **Stored XSS**
3. **DOM-based XSS**

Since you are specifically asking about **Reflected XSS** and **Stored XSS**, let's focus on these two and their differences, along with how they can be exploited.

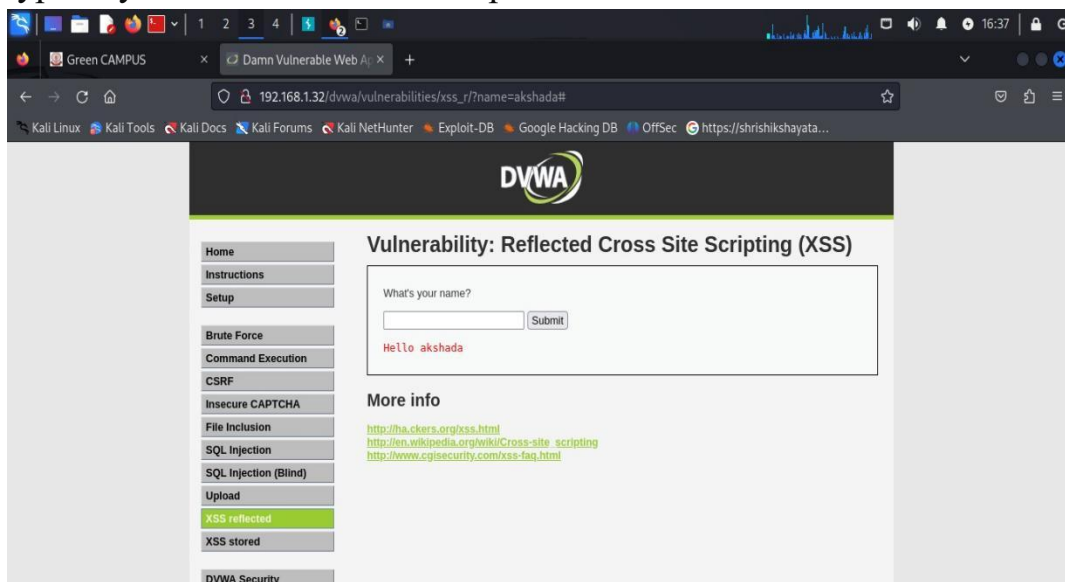
1. Reflected XSS

Definition:

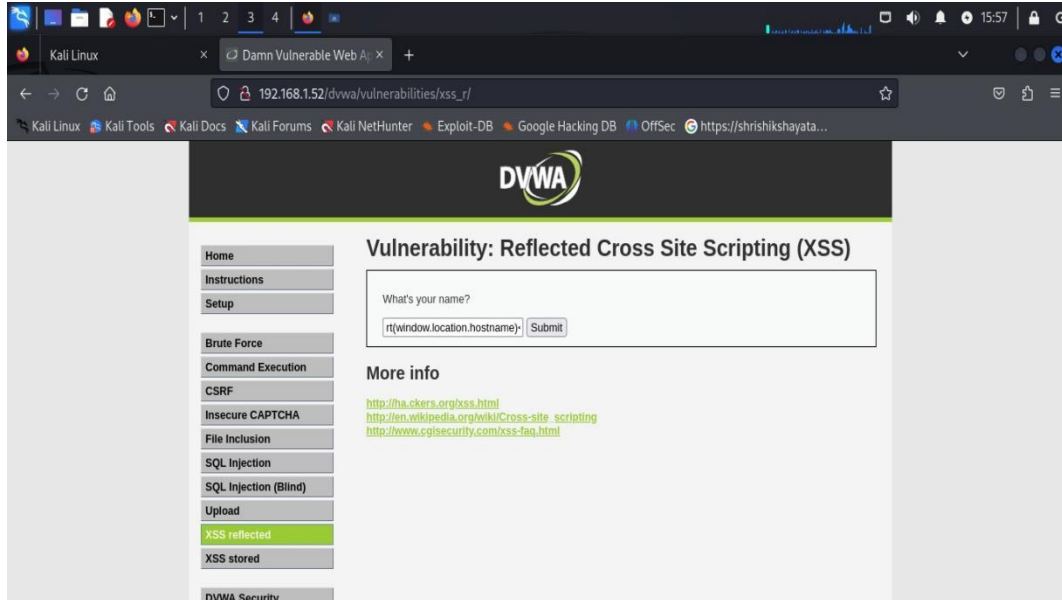
Reflected XSS occurs when user input is immediately included in the response from a server, typically within an HTTP request (e.g., URL, query parameters, or form input), and the injected malicious code is executed on the user's browser.

This type of XSS is “reflected” because the malicious input is reflected back from the server, rather than being stored.

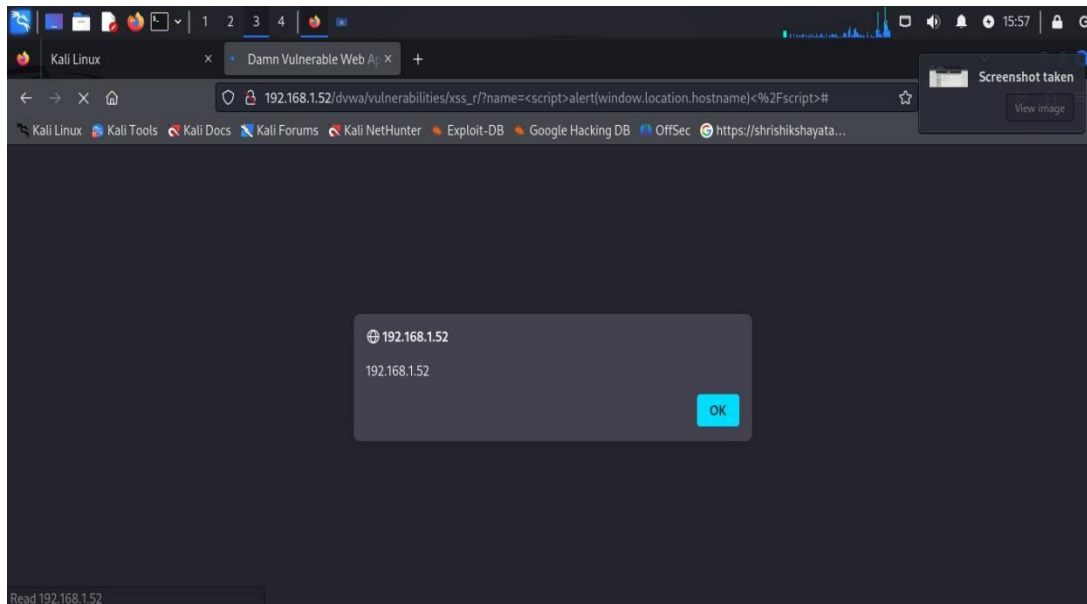
- Once a vulnerable input field is found, the attacker submits a payload, typically in the form of JavaScript.



- Adding js code in user input filed.



- IP Reflected in alert box .

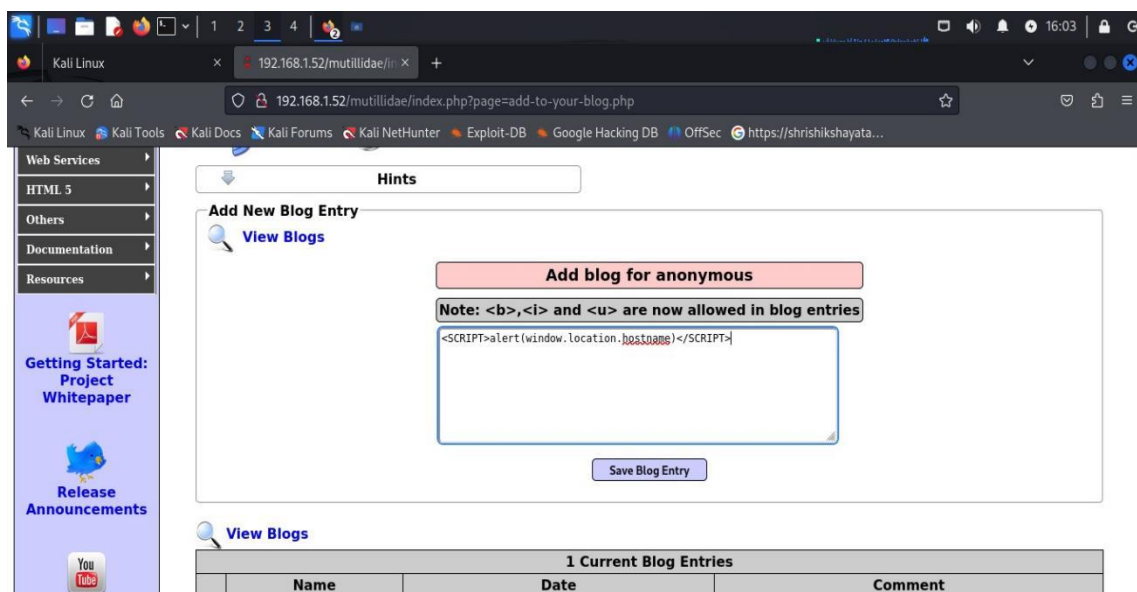


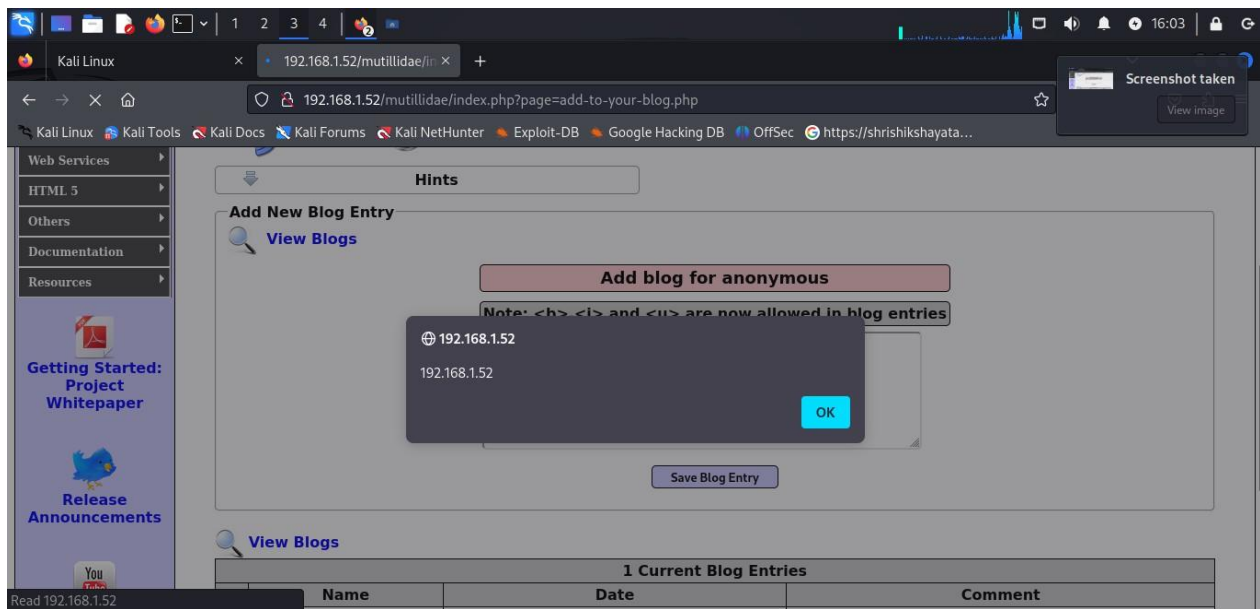
2.Stored XSS

Definition:

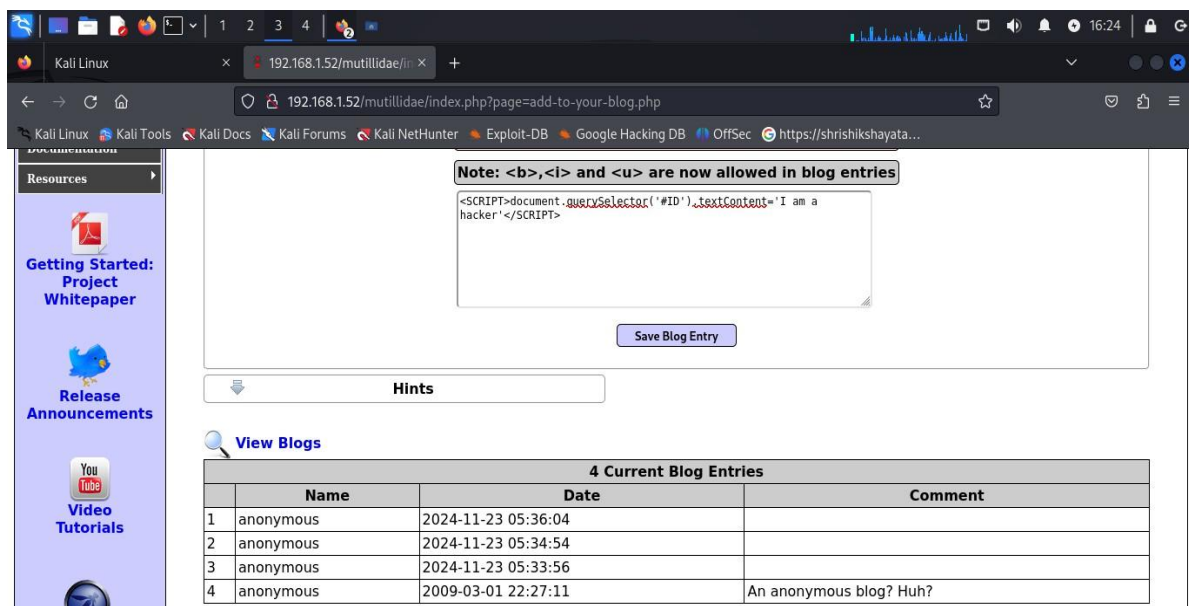
Stored XSS, also known as persistent XSS, occurs when malicious input submitted by the attacker is permanently stored on the server (in a database, file system, or log files), and then later reflected back in the response when other users access the stored data.

- I am inserting js code in user input field for stored XSS.

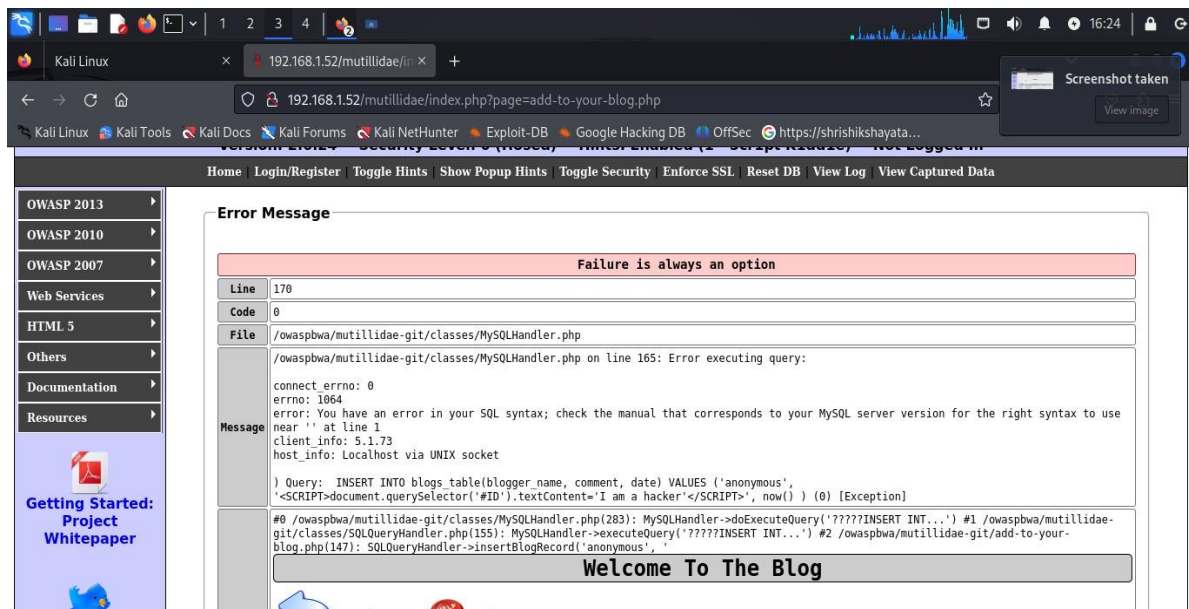




- Saved blog entry in stored XSS ,then code for compermise title.



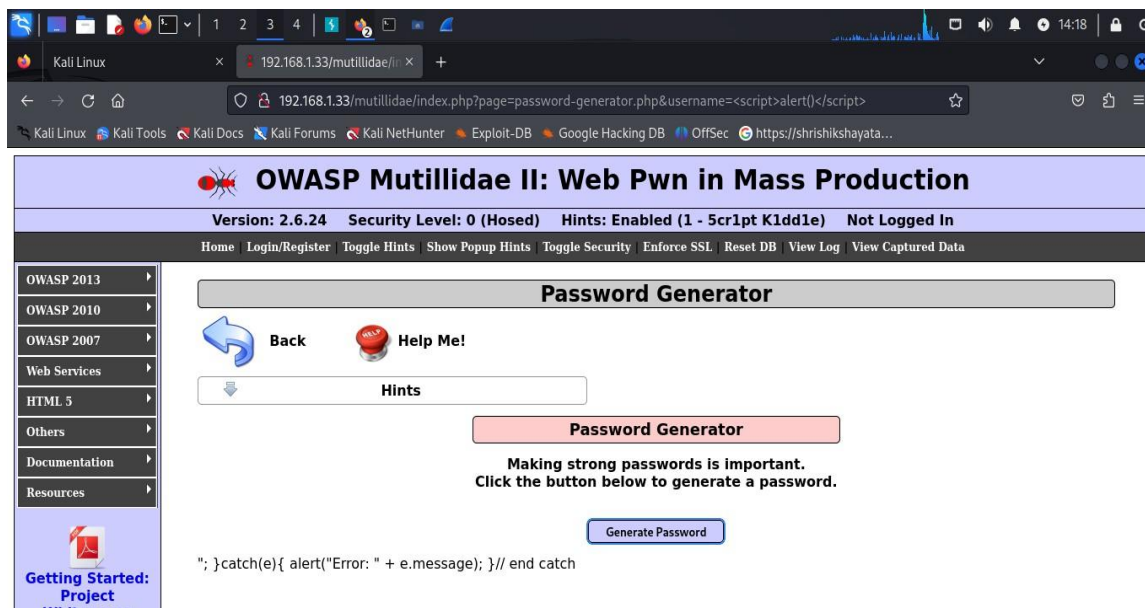
- Error for changing title.



DOM-based Cross-Site Scripting (DOM XSS) :

Is a type of security vulnerability that occurs when a web application uses client-side scripts (such as JavaScript) to dynamically update the page's content, and this content includes untrusted data that can be controlled by an attacker. Unlike traditional XSS, which is primarily related to server-side vulnerabilities, DOM XSS happens entirely on the client side—within the browser.

- In DOM based cross site scripting adding code in URL ,then I got error message thad error is that in page code.



- I am changing code then I got output.

