

# CSRF- DVWA

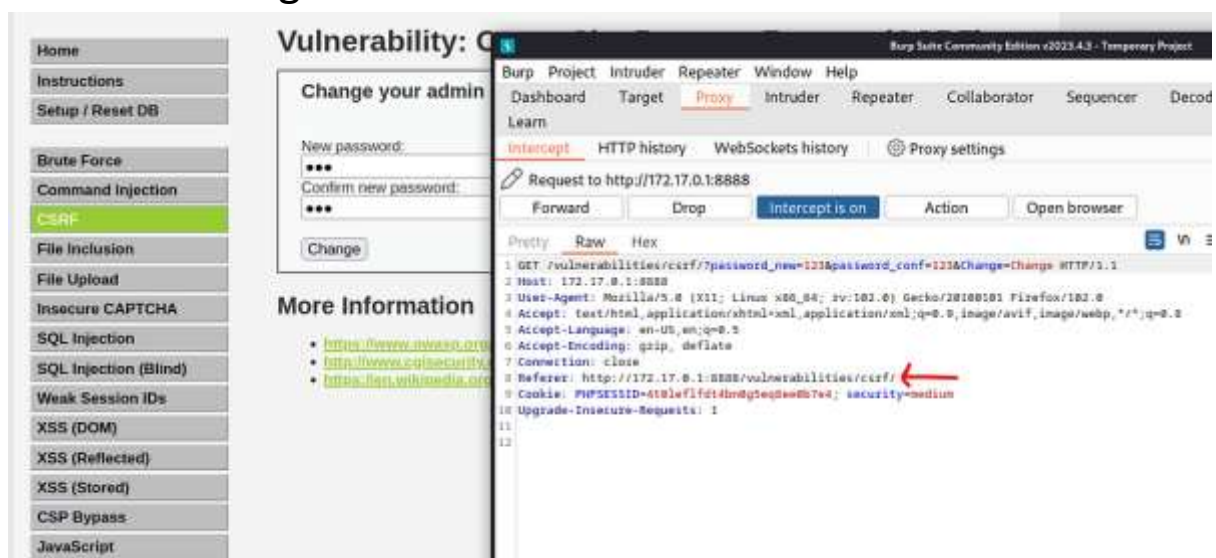
Cross-Site Request Forgery (CSRF) is a type of cyber attack where a malicious actor tricks a user into performing actions on a web application where they are authenticated. This exploit leverages the trust that a web application has in the user's browser. When a user is logged into a website, they have certain privileges and permissions, such as the ability to transfer money or change account settings. A CSRF attack occurs when an attacker creates a malicious web page or script that sends a request to the targeted website, using the victim's credentials. Because the victim is already authenticated, the web application believes the request is legitimate and executes it. This can lead to unauthorized actions such as fund transfers, data changes, or other harmful activities. Mitigating CSRF typically involves using anti-CSRF tokens, ensuring requests are validated properly, and implementing same-site cookies to prevent unauthorized requests from being processed.

## Examples: -

1. Firstly, we will look the source code.

[illegible]

2. The flaw in this code is a Cross-Site Request Forgery (CSRF) vulnerability. The code uses the HTTP Referer header to check if the request came from the same server, assuming it's a trusted source. However, the Referer header can be easily manipulated by an attacker. This allows an attacker to create a malicious website or craft a URL that makes a request to this script, tricking the user's browser into performing an unwanted action on their behalf, such as changing their password without their knowledge or consent.



3. Within the legitimate request we see there is a Referer, where the request came from. That matches up so the request goes ahead. So what if we intercept the illegitimate request with Burp and add the HTTP Referer. Like so.



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Insecure CAPTCHA

SQL Injection

SQL Injection (Blind)

## Vulnerability: Cross Sit

Change your admin password:

New password:

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Confirm new password:

Change

Password Changed.

More Information