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## Task: 3

### 1.commands execution vulnerability:

Command execution vulnerabilities can arise through the use of external libraries or third-party code. If the code is not properly vetted or updated, it may contain vulnerabilities that can be exploited by an attacker.

To mitigate command execution vulnerabilities, it is important to properly validate user input and to use up-to-date and secure third-party code. Additionally, it is recommended to use sandboxing or other isolation techniques to prevent an attacker from executing arbitrary commands on the system.

Command injection is an attack in which the goal is execution of arbitrary commands on the host operating system via a vulnerable application. Command injection attacks are possible when an application passes unsafe user supplied data (forms, cookies, HTTP headers etc.) to a system shell.

#### i. Security level: low



The screenshot shows the DVWA (Damn Vulnerable Web Application) interface. The top navigation bar includes links for Home, Instructions, Setup, Bruteforce, Command Execution (highlighted), CSRF, File Inclusion, SQL Injection, SQL Injection (Blind), Upload, XSS reflected, XSS stored, DVWA Security, PHP Info, About, and Logout. The main content area is titled "Vulnerability: Command Execution". It features a "Ping for FREE" section with a text input field for an IP address and a "submit" button. Below the input field, the text "help", "index.php", and "source" is displayed in red. A "More info" section provides three links: <http://www.scribd.com/doc/2530476/Php-Endangers-Remote-Code-Execution>, <http://www.ss54.com/bash/>, and <http://www.ss54.com/nit/>.

#### ii. Security level: medium



This screenshot is identical to the one for the low security level, showing the DVWA interface with the "Command Execution" vulnerability page. The layout, including the navigation bar, the "Ping for FREE" section with the IP input field and "submit" button, the red text "help", "index.php", and "source", and the "More info" section with the same three links, is exactly the same as in the low security level screenshot.

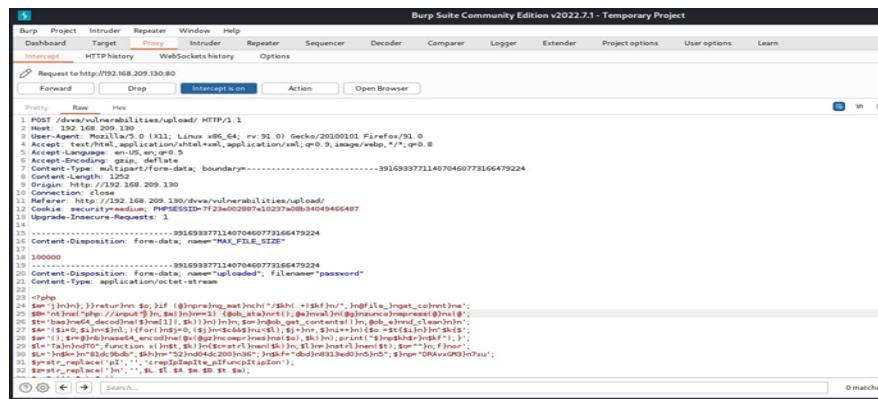
### iii. Security level: high



## 2.File Upload Vulnerability:

File upload vulnerability is a security flaw that allows an attacker to upload malicious files to a web server, which can then be executed on the server or downloaded by other users. This vulnerability can be exploited by attackers to compromise the confidentiality, integrity, and availability of the web application and its data. There are several ways in which file upload vulnerabilities can arise. One common way is through inadequate file type validation. If a

### i.Security level: low



## ii.Security level: medium

Burp Suite Community Edition v2022.7.1 - Temporary Project

Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Logger Extender Project options User options Learn

Intercept HTTP history WebSockets history Options

Request to http://192.168.209.130:80

Forward Drop Intercept is on Action Open Browser


Proxy Raw Hex

```
1 POST /dva/vulnerabilities/upload/ HTTP/1.1
2 Host: 192.168.209.130
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:91.0) Gecko/20100101 Firefox/91.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate
7 Content-Type: multipart/form-data; boundary=-----391693877114070460773166479224
8 Content-Length: 3252
9 Origin: http://192.168.209.130
10 Connection: close
11 Referer: http://192.168.209.130/dva/vulnerabilities/upload/
12 Cookie: security=medium; PHPSESSID=7f23w002887a10237a08b34049466487
13 Upgrade-Insecure-Requests: 1
14
15 -----391693877114070460773166479224
16 Content-Disposition: form-data; name="MAX_FILE_SIZE"
17
18 100000
19 -----391693877114070460773166479224
20 Content-Disposition: form-data; name="uploaded"; filename="password"
21 Content-Type: application/octet-stream
22
23 *php
24 $e=($_>);return $e;if (@$e[0]<0){$e[0]=0;$e[1]=0;$e[2]=0;$e[3]=0;$e[4]=0;$e[5]=0;$e[6]=0;$e[7]=0;$e[8]=0;$e[9]=0;$e[10]=0;$e[11]=0;$e[12]=0;$e[13]=0;$e[14]=0;$e[15]=0;$e[16]=0;$e[17]=0;$e[18]=0;$e[19]=0;$e[20]=0;$e[21]=0;$e[22]=0;$e[23]=0;$e[24]=0;$e[25]=0;$e[26]=0;$e[27]=0;$e[28]=0;$e[29]=0;$e[30]=0;$e[31]=0;$e[32]=0;$e[33]=0;$e[34]=0;$e[35]=0;$e[36]=0;$e[37]=0;$e[38]=0;$e[39]=0;$e[40]=0;$e[41]=0;$e[42]=0;$e[43]=0;$e[44]=0;$e[45]=0;$e[46]=0;$e[47]=0;$e[48]=0;$e[49]=0;$e[50]=0;$e[51]=0;$e[52]=0;$e[53]=0;$e[54]=0;$e[55]=0;$e[56]=0;$e[57]=0;$e[58]=0;$e[59]=0;$e[60]=0;$e[61]=0;$e[62]=0;$e[63]=0;$e[64]=0;$e[65]=0;$e[66]=0;$e[67]=0;$e[68]=0;$e[69]=0;$e[70]=0;$e[71]=0;$e[72]=0;$e[73]=0;$e[74]=0;$e[75]=0;$e[76]=0;$e[77]=0;$e[78]=0;$e[79]=0;$e[80]=0;$e[81]=0;$e[82]=0;$e[83]=0;$e[84]=0;$e[85]=0;$e[86]=0;$e[87]=0;$e[88]=0;$e[89]=0;$e[90]=0;$e[91]=0;$e[92]=0;$e[93]=0;$e[94]=0;$e[95]=0;$e[96]=0;$e[97]=0;$e[98]=0;$e[99]=0;$e[100]=0;$e[101]=0;$e[102]=0;$e[103]=0;$e[104]=0;$e[105]=0;$e[106]=0;$e[107]=0;$e[108]=0;$e[109]=0;$e[110]=0;$e[111]=0;$e[112]=0;$e[113]=0;$e[114]=0;$e[115]=0;$e[116]=0;$e[117]=0;$e[118]=0;$e[119]=0;$e[120]=0;$e[121]=0;$e[122]=0;$e[123]=0;$e[124]=0;$e[125]=0;$e[126]=0;$e[127]=0;$e[128]=0;$e[129]=0;$e[130]=0;$e[131]=0;$e[132]=0;$e[133]=0;$e[134]=0;$e[135]=0;$e[136]=0;$e[137]=0;$e[138]=0;$e[139]=0;$e[140]=0;$e[141]=0;$e[142]=0;$e[143]=0;$e[144]=0;$e[145]=0;$e[146]=0;$e[147]=0;$e[148]=0;$e[149]=0;$e[150]=0;$e[151]=0;$e[152]=0;$e[153]=0;$e[154]=0;$e[155]=0;$e[156]=0;$e[157]=0;$e[158]=0;$e[159]=0;$e[160]=0;$e[161]=0;$e[162]=0;$e[163]=0;$e[164]=0;$e[165]=0;$e[166]=0;$e[167]=0;$e[168]=0;$e[169]=0;$e[170]=0;$e[171]=0;$e[172]=0;$e[173]=0;$e[174]=0;$e[175]=0;$e[176]=0;$e[177]=0;$e[178]=0;$e[179]=0;$e[180]=0;$e[181]=0;$e[182]=0;$e[183]=0;$e[184]=0;$e[185]=0;$e[186]=0;$e[187]=0;$e[188]=0;$e[189]=0;$e[190]=0;$e[191]=0;$e[192]=0;$e[193]=0;$e[194]=0;$e[195]=0;$e[196]=0;$e[197]=0;$e[198]=0;$e[199]=0;$e[200]=0;$e[201]=0;$e[202]=0;$e[203]=0;$e[204]=0;$e[205]=0;$e[206]=0;$e[207]=0;$e[208]=0;$e[209]=0;$e[210]=0;$e[211]=0;$e[212]=0;$e[213]=0;$e[214]=0;$e[215]=0;$e[216]=0;$e[217]=0;$e[218]=0;$e[219]=0;$e[220]=0;$e[221]=0;$e[222]=0;$e[223]=0;$e[224]=0;$e[225]=0;$e[226]=0;$e[227]=0;$e[228]=0;$e[229]=0;$e[230]=0;$e[231]=0;$e[232]=0;$e[233]=0;$e[234]=0;$e[235]=0;$e[236]=0;$e[237]=0;$e[238]=0;$e[239]=0;$e[240]=0;$e[241]=0;$e[242]=0;$e[243]=0;$e[244]=0;$e[245]=0;$e[246]=0;$e[247]=0;$e[248]=0;$e[249]=0;$e[250]=0;$e[251]=0;$e[252]=0;$e[253]=0;$e[254]=0;$e[255]=0;$e[256]=0;$e[257]=0;$e[258]=0;$e[259]=0;$e[260]=0;$e[261]=0;$e[262]=0;$e[263]=0;$e[264]=0;$e[265]=0;$e[266]=0;$e[267]=0;$e[268]=0;$e[269]=0;$e[270]=0;$e[271]=0;$e[272]=0;$e[273]=0;$e[274]=0;$e[275]=0;$e[276]=0;$e[277]=0;$e[278]=0;$e[279]=0;$e[280]=0;$e[281]=0;$e[282]=0;$e[283]=0;$e[284]=0;$e[285]=0;$e[286]=0;$e[287]=0;$e[288]=0;$e[289]=0;$e[290]=0;$e[291]=0;$e[292]=0;$e[293]=0;$e[294]=0;$e[295]=0;$e[296]=0;$e[297]=0;$e[298]=0;$e[299]=0;$e[300]=0;$e[301]=0;$e[302]=0;$e[303]=0;$e[304]=0;$e[305]=0;$e[306]=0;$e[307]=0;$e[308]=0;$e[309]=0;$e[310]=0;$e[311]=0;$e[312]=0;$e[313]=0;$e[314]=0;$e[315]=0;$e[316]=0;$e[317]=0;$e[318]=0;$e[319]=0;$e[320]=0;$e[321]=0;$e[322]=0;$e[323]=0;$e[324]=0;$e[325]=0;$e[326]=0;$e[327]=0;$e[328]=0;$e[329]=0;$e[330]=0;$e[331]=0;$e[332]=0;$e[333]=0;$e[334]=0;$e[335]=0;$e[336]=0;$e[337]=0;$e[338]=0;$e[339]=0;$e[340]=0;$e[341]=0;$e[342]=0;$e[343]=0;$e[344]=0;$e[345]=0;$e[346]=0;$e[347]=0;$e[348]=0;$e[349]=0;$e[350]=0;$e[351]=0;$e[352]=0;$e[353]=0;$e[354]=0;$e[355]=0;$e[356]=0;$e[357]=0;$e[358]=0;$e[359]=0;$e[360]=0;$e[361]=0;$e[362]=0;$e[363]=0;$e[364]=0;$e[365]=0;$e[366]=0;$e[367]=0;$e[368]=0;$e[369]=0;$e[370]=0;$e[371]=0;$e[372]=0;$e[373]=0;$e[374]=0;$e[375]=0;$e[376]=0;$e[377]=0;$e[378]=0;$e[379]=0;$e[380]=0;$e[381]=0;$e[382]=0;$e[383]=0;$e[384]=0;$e[385]=0;$e[386]=0;$e[387]=0;$e[388]=0;$e[389]=0;$e[390]=0;$e[391]=0;$e[392]=0;$e[393]=0;$e[394]=0;$e[395]=0;$e[396]=0;$e[397]=0;$e[398]=0;$e[399]=0;$e[400]=0;$e[401]=0;$e[402]=0;$e[403]=0;$e[404]=0;$e[405]=0;$e[406]=0;$e[407]=0;$e[408]=0;$e[409]=0;$e[410]=0;$e[411]=0;$e[412]=0;$e[413]=0;$e[414]=0;$e[415]=0;$e[416]=0;$e[417]=0;$e[418]=0;$e[419]=0;$e[420]=0;$e[421]=0;$e[422]=0;$e[423]=0;$e[424]=0;$e[425]=0;$e[426]=0;$e[427]=0;$e[428]=0;$e[429]=0;$e[430]=0;$e[431]=0;$e[432]=0;$e[433]=0;$e[434]=0;$e[435]=0;$e[436]=0;$e[437]=0;$e[438]=0;$e[439]=0;$e[440]=0;$e[441]=0;$e[442]=0;$e[443]=0;$e[444]=0;$e[445]=0;$e[446]=0;$e[447]=0;$e[448]=0;$e[449]=0;$e[450]=0;$e[451]=0;$e[452]=0;$e[453]=0;$e[454]=0;$e[455]=0;$e[456]=0;$e[457]=0;$e[458]=0;$e[459]=0;$e[460]=0;$e[461]=0;$e[462]=0;$e[463]=0;$e[464]=0;$e[465]=0;$e[466]=0;$e[467]=0;$e[468]=0;$e[469]=0;$e[470]=0;$e[471]=0;$e[472]=0;$e[473]=0;$e[474]=0;$e[475]=0;$e[476]=0;$e[477]=0;$e[478]=0;$e[479]=0;$e[480]=0;$e[481]=0;$e[482]=0;$e[483]=0;$e[484]=0;$e[485]=0;$e[486]=0;$e[487]=0;$e[488]=0;$e[489]=0;$e[490]=0;$e[491]=0;$e[492]=0;$e[493]=0;$e[494]=0;$e[495]=0;$e[496]=0;$e[497]=0;$e[498]=0;$e[499]=0;$e[500]=0;$e[501]=0;$e[502]=0;$e[503]=0;$e[504]=0;$e[505]=0;$e[506]=0;$e[507]=0;$e[508]=0;$e[509]=0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```

### 3.Sql Injection Vulnerability:

SQL injection vulnerability is a type of security flaw that allows an attacker to inject malicious SQL code into an application's database. This vulnerability can be exploited by attackers to compromise the confidentiality, integrity, and availability of the database and its data. Once an attacker has successfully injected malicious SQL code, they can perform various malicious actions such as accessing sensitive data, modifying or deleting existing data, or even taking complete control of the database server.

#### i.Security level: low



[Home](#)  
[Instructions](#)  
[Setup](#)  
  
[Brute Force](#)  
[Command Execution](#)  
[CSRF](#)  
[File Inclusion](#)  
**[SQL Injection](#)**  
[SQL Injection \(Blind\)](#)  
[Upload](#)  
[XSS reflected](#)  
[XSS stored](#)  
  
[DVWA Security](#)  
[PHP Info](#)  
[About](#)  
  
[Logout](#)


### Vulnerability: SQL Injection

**User ID:**

ID: %' or '0' = '0  
First name: admin  
Surname: admin  
  
ID: %' or '0' = '0  
First name: Gordon  
Surname: Brown  
  
ID: %' or '0' = '0  
First name: Hack  
Surname: Me  
  
ID: %' or '0' = '0  
First name: Pablo  
Surname: Picasso  
  
ID: %' or '0' = '0  
First name: Bob  
Surname: Smith

**More info**  
<http://www.securiteam.com/securityreviews/5DP0N1P76E.html>  
[http://en.wikipedia.org/wiki/SQL\\_injection](http://en.wikipedia.org/wiki/SQL_injection)  
<http://www.unixwiz.net/techtips/sql-injection.html>

#### ii.Security level: medium



[Home](#)  
[Instructions](#)  
[Setup](#)  
  
[Brute Force](#)  
[Command Execution](#)  
[CSRF](#)  
[File Inclusion](#)  
**[SQL Injection](#)**  
[SQL Injection \(Blind\)](#)  
[Upload](#)  
[XSS reflected](#)  
[XSS stored](#)  
  
[DVWA Security](#)  
[PHP Info](#)  
[About](#)  
  
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### Vulnerability: SQL Injection

**User ID:**

ID: %' or '0' = '0  
First name: admin  
Surname: admin  
  
ID: %' or '0' = '0  
First name: Gordon  
Surname: Brown  
  
ID: %' or '0' = '0  
First name: Hack  
Surname: Me  
  
ID: %' or '0' = '0  
First name: Pablo  
Surname: Picasso  
  
ID: %' or '0' = '0  
First name: Bob  
Surname: Smith

**More info**  
<http://www.securiteam.com/securityreviews/5DP0N1P76E.html>  
[http://en.wikipedia.org/wiki/SQL\\_injection](http://en.wikipedia.org/wiki/SQL_injection)  
<http://www.unixwiz.net/techtips/sql-injection.html>

### iii. Security level: high

**DVWA**

Home  
Instructions  
Setup  
Brute Force  
Command Execution  
CSRF  
File Inclusion  
**SQL Injection**  
SQL Injection (Blind)  
Upload  
XSS reflected  
XSS stored  
DVWA Security  
PHP Info  
About  
Logout

### Vulnerability: SQL Injection

User ID:

ID: %' or '0' = '0  
First name: admin  
Surname: admin

ID: %' or '0' = '0  
First name: Gordon  
Surname: Brown

ID: %' or '0' = '0  
First name: Hack  
Surname: Me

ID: %' or '0' = '0  
First name: Pablo  
Surname: Picasso

ID: %' or '0' = '0  
First name: Bob  
Surname: Smith

**More info**

<http://www.securiteam.com/securityreviews/5DP0N1P76E.html>  
[http://en.wikipedia.org/wiki/SQL\\_injection](http://en.wikipedia.org/wiki/SQL_injection)  
<http://www.unixwiz.net/techtips/sql-injection.html>

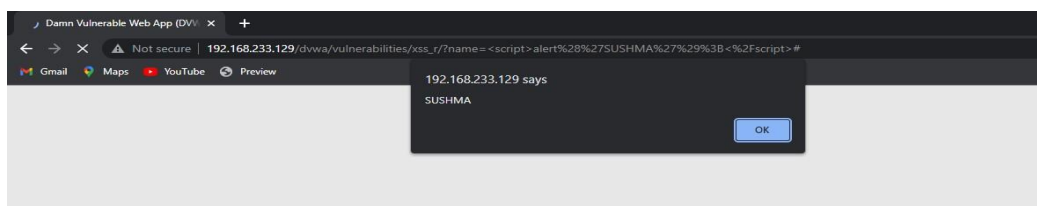
### 4. Cross-Site Scripting:

Cross-site scripting (XSS) is a type of web security vulnerability where an attacker is able to inject malicious code, usually in the form of scripts, into a web page viewed by other users. This can allow the attacker to steal sensitive information, such as login credentials or personal data, or to modify the content of the page in a way that can harm users.

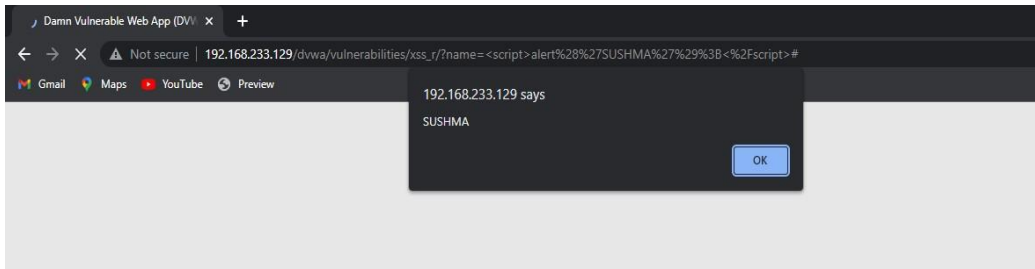
XSS attacks can occur when a web application does not properly validate or sanitize user input, such as in the case of comment boxes or search bars. An attacker can inject malicious code, such as a script that steals cookies or submits a form, into the web page by entering it as user input. This code is then executed by the browser of other users viewing the web page

### i. Security level: low

XSS-reflected:

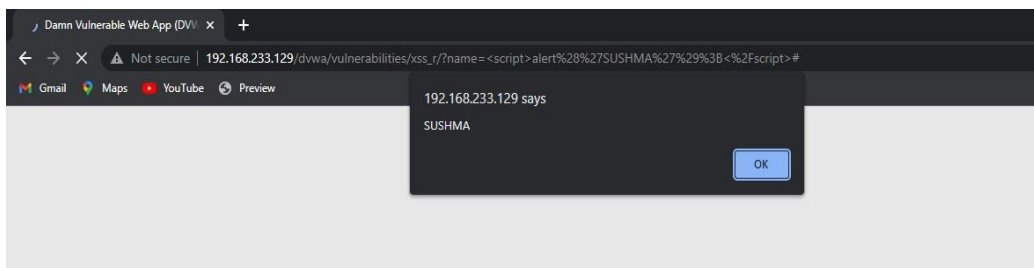


## XSS-stored

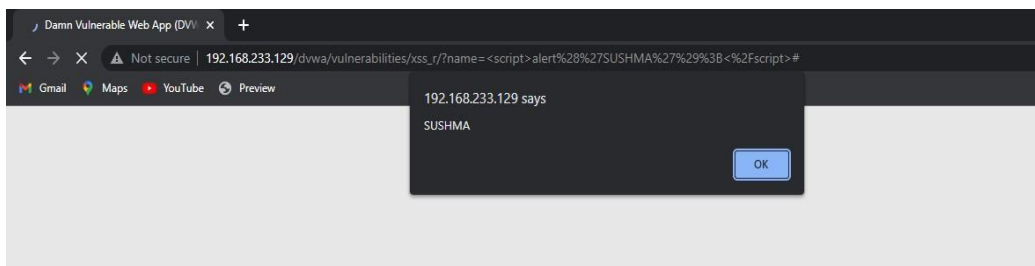


## ii. Security level: medium

### XSS-reflected:

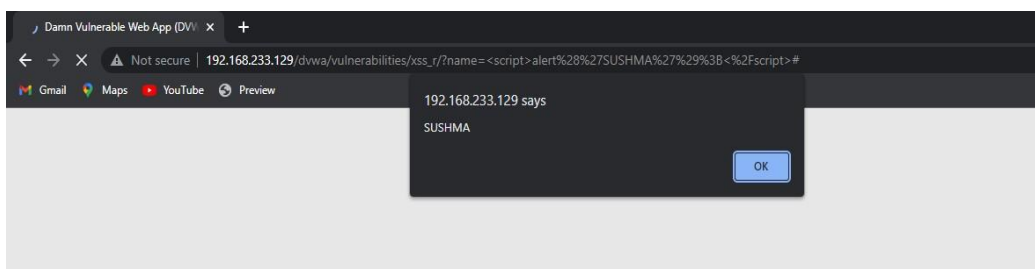


### XSS-Stored:

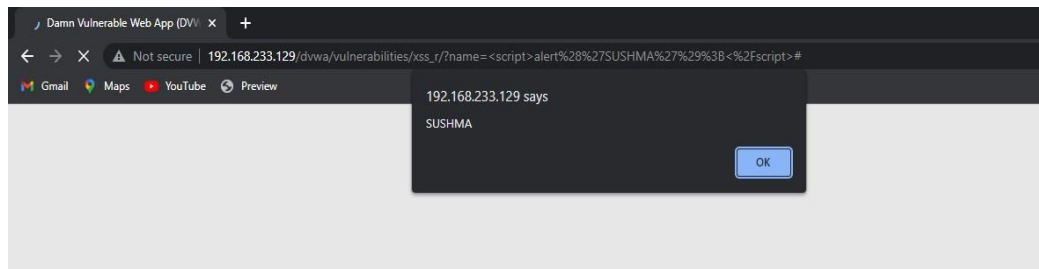


## iii. Security level: high

### XSS-reflected:



## XSS-Stored:

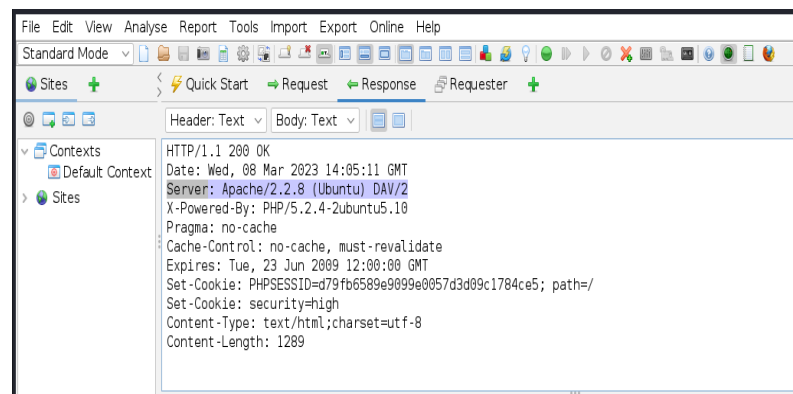



## 5.Sensitive Information Disclosure:

Information disclosure, also known as information leakage, is when a website unintentionally reveals sensitive information to its users. Depending on the context, websites may leak all kinds of information to a potential attacker.

Sensitive information disclosure is a type of security flaw that occurs when sensitive data, such as personal information or confidential business data, is exposed to unauthorized users or parties. This vulnerability can be exploited by attackers to compromise the confidentiality, integrity, and availability of the sensitive data.

### i.Security level: low





Home  
Instructions  
Setup  
  
Brute Force  
Command Execution  
CSRF  
File Inclusion  
SQL Injection  
SQL Injection (Blind)  
Upload  
XSS reflected  
XSS stored  
  
DVWA Security  
PHP Info

## DVWA Security

### Script Security

Security Level is currently **low**.

You can set the security level to low, medium or high.

The security level changes the vulnerability level of DVWA.

low

Submit

---

### PHPIDS

**PHPIDS** v0.6 (PHP-Intrusion Detection System) is a security layer for PHP based web applications.

You can enable PHPIDS across this site for the duration of your session.

PHPIDS is currently **disabled**. [\[enable PHPIDS\]](#)

[\[Simulate attack\]](#) - [\[View IDS log\]](#)

## ii.Security level: medium

File Edit View Analyse Report Tools Import Export Online Help

Standard Mode

Sites

Quick Start

Request

Response

Requester

Header: Text

Body: Text

Contexts

Default Context

Sites

```

HTTP/1.1 200 OK
Date: Wed, 08 Mar 2023 14:05:11 GMT
Server: Apache/2.2.8 (Ubuntu) DAV/2
X-Powered-By: PHP/5.2.4-2ubuntu5.10
Pragma: no-cache
Cache-Control: no-cache, must-revalidate
Expires: Tue, 23 Jun 2009 12:00:00 GMT
Set-Cookie: PHPSESSID=d79fb6589e9099e0057d3d09c1784ce5; path=/
Set-Cookie: security=high
Content-Type: text/html; charset=utf-8
Content-Length: 1289

```



Home  
Instructions  
Setup  
  
Brute Force  
Command Execution  
CSRF  
File Inclusion  
SQL Injection  
SQL Injection (Blind)  
Upload  
XSS reflected  
XSS stored  
  
DVWA Security  
PHP Info

## DVWA Security

### Script Security

Security Level is currently **low**.

You can set the security level to low, medium or high.

The security level changes the vulnerability level of DVWA.

low

Submit

---

### PHPIDS

**PHPIDS** v0.6 (PHP-Intrusion Detection System) is a security layer for PHP based web applications.

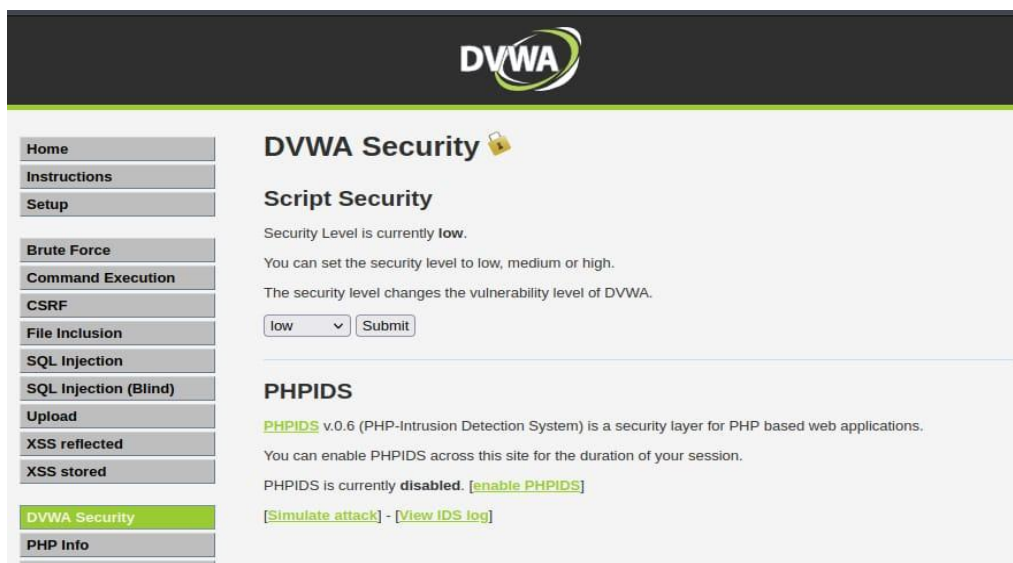
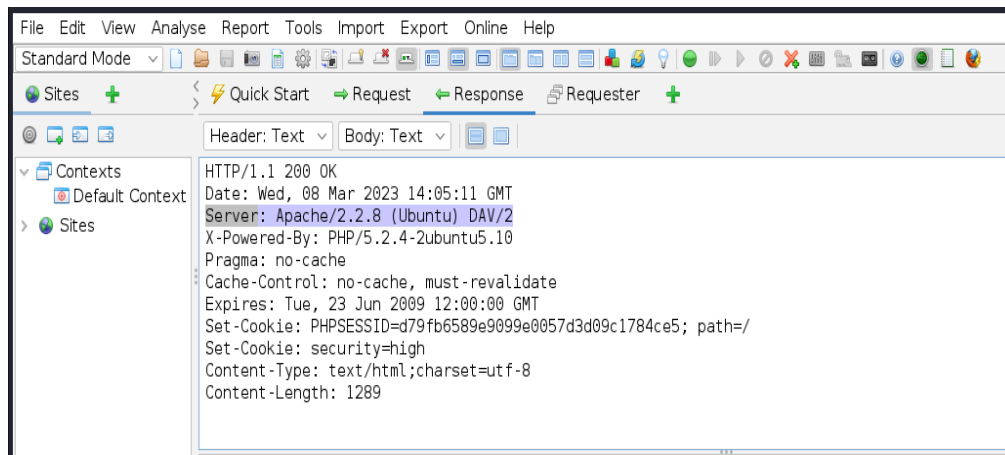
You can enable PHPIDS across this site for the duration of your session.

PHPIDS is currently **disabled**. [\[enable PHPIDS\]](#)

[\[Simulate attack\]](#) - [\[View IDS log\]](#)

## iii. Security level: high





## 6. Local File Inclusion:

A File Inclusion Vulnerability is a type of Vulnerability commonly found in PHP based websites and it is used to affect the web applications. This issue generally occurs when an application is trying to get some information from a particular server where the inputs for getting a particular file location are not treated as a trusted source.

It generally refers to an inclusion attack where an attacker can supply a valid input to get a response from a web server. In response, an attacker will be able to judge whether the input which he supplied is valid or not. If it is valid, then whatever/whichever file an attacker wants to see they can easily access it.

### i. Security level: low



## ii.Security level: medium



## iii.Security level: high

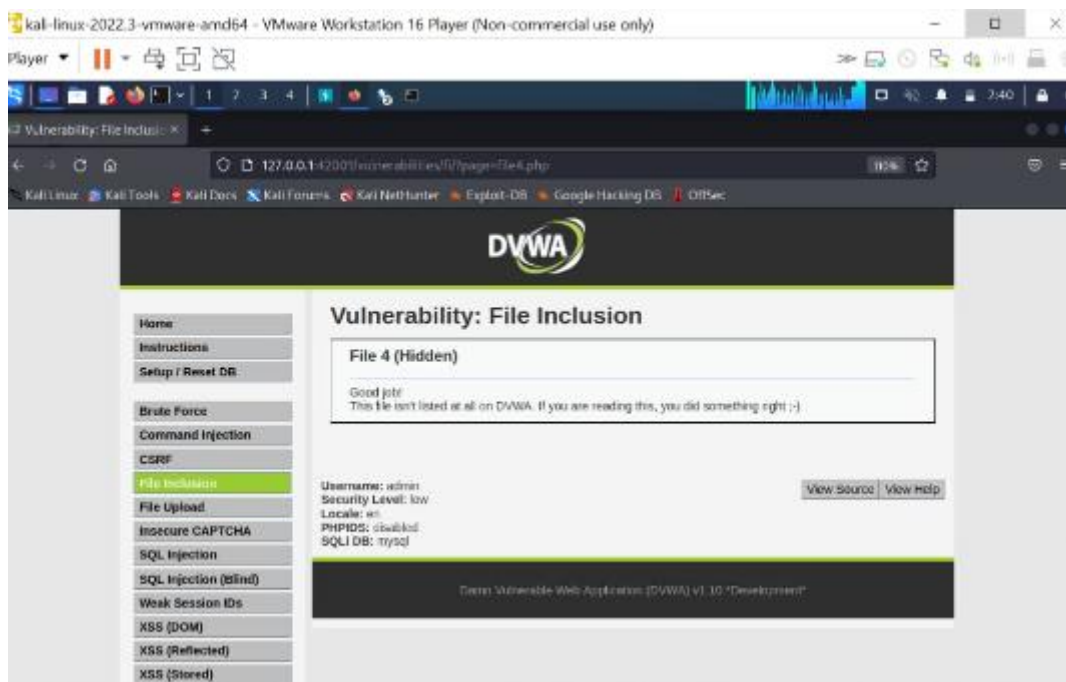


## 7.Remote File Inclusion:

Remote File Inclusion (RFI) is a type of security vulnerability that occurs when an application allows an attacker to include and execute remote files on the server. The vulnerability typically arises from insufficient input validation or poor coding practices in the application.

RFI typically occurs when a web application allows user input to control the path or URL of a file that is included or executed on the server. An attacker can exploit this vulnerability by manipulating the input to point to a remote file that they control, which can be used to inject malicious code onto the server.

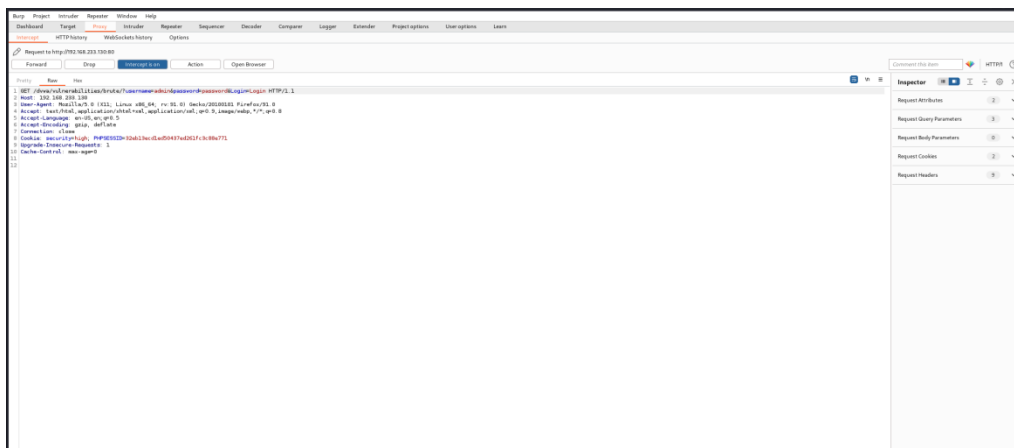
### i.Security level: low

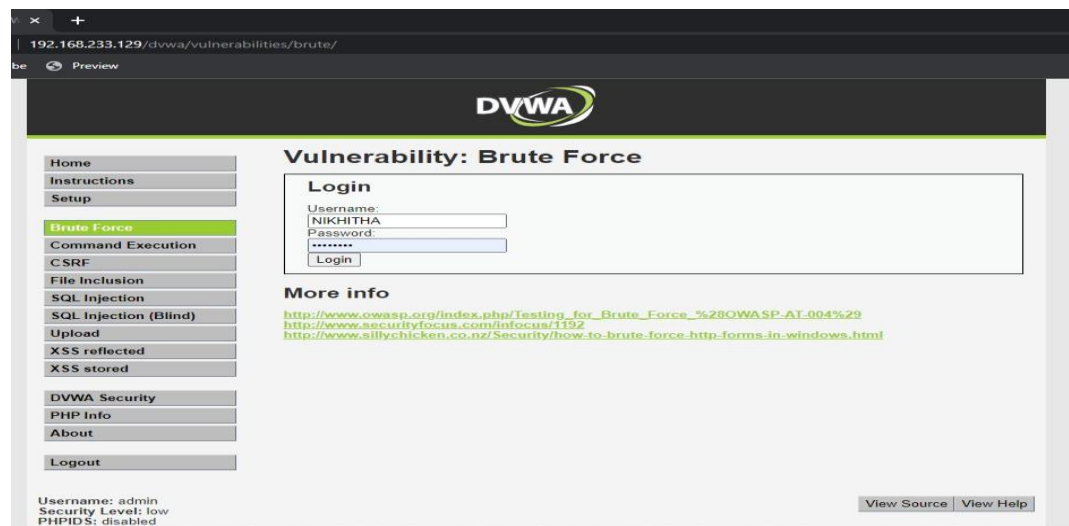


### ii.Security level: medium

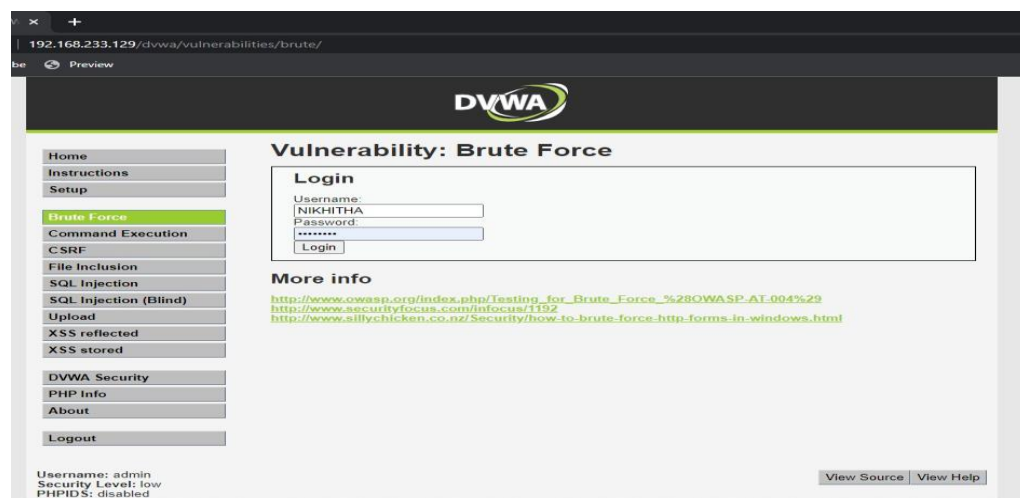
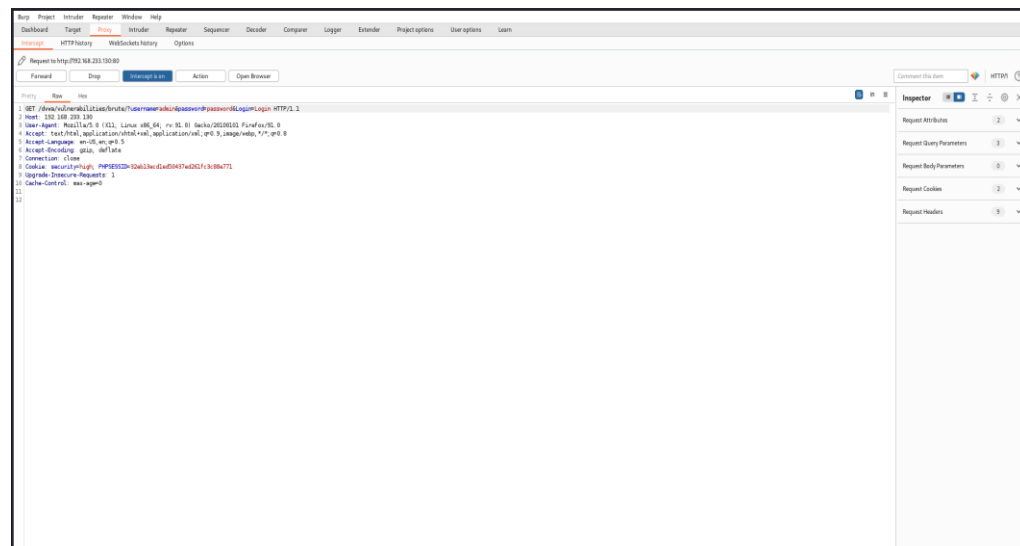


### iii.Security level: high

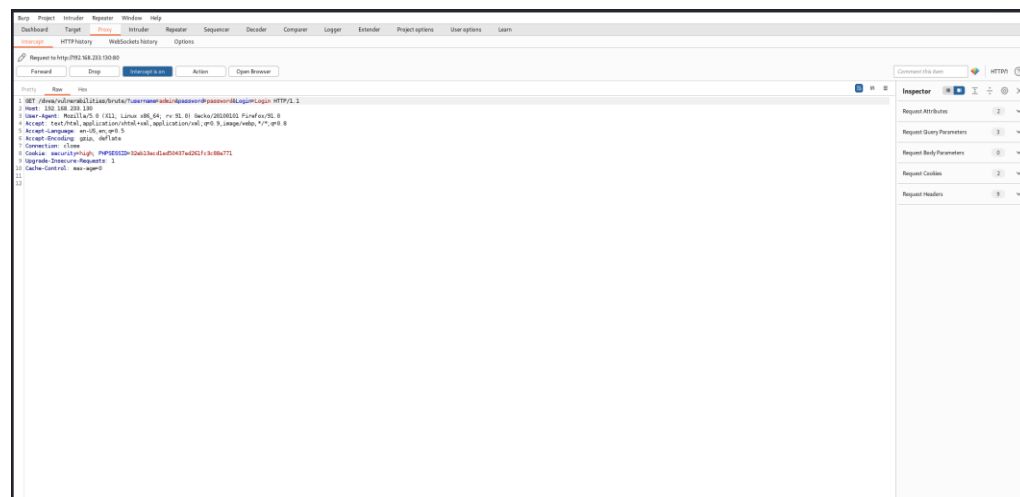




## ii. Security level: medium



### iii.Security level:high



### 9.forced browsing vulnerability:

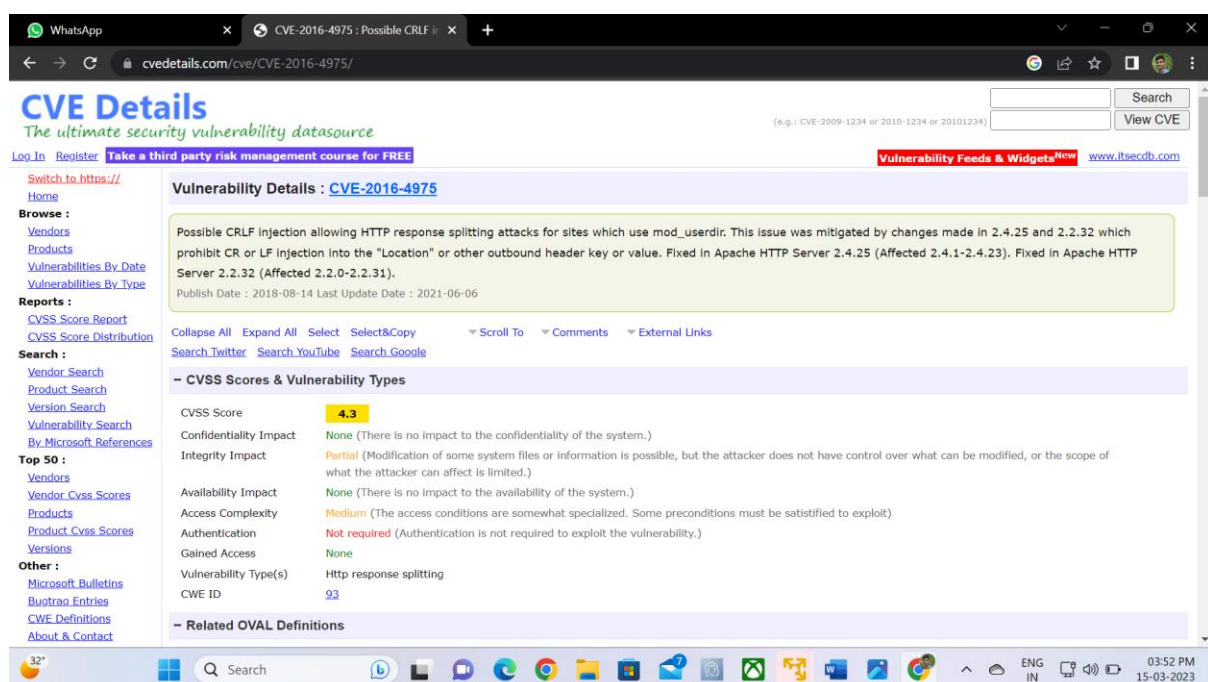
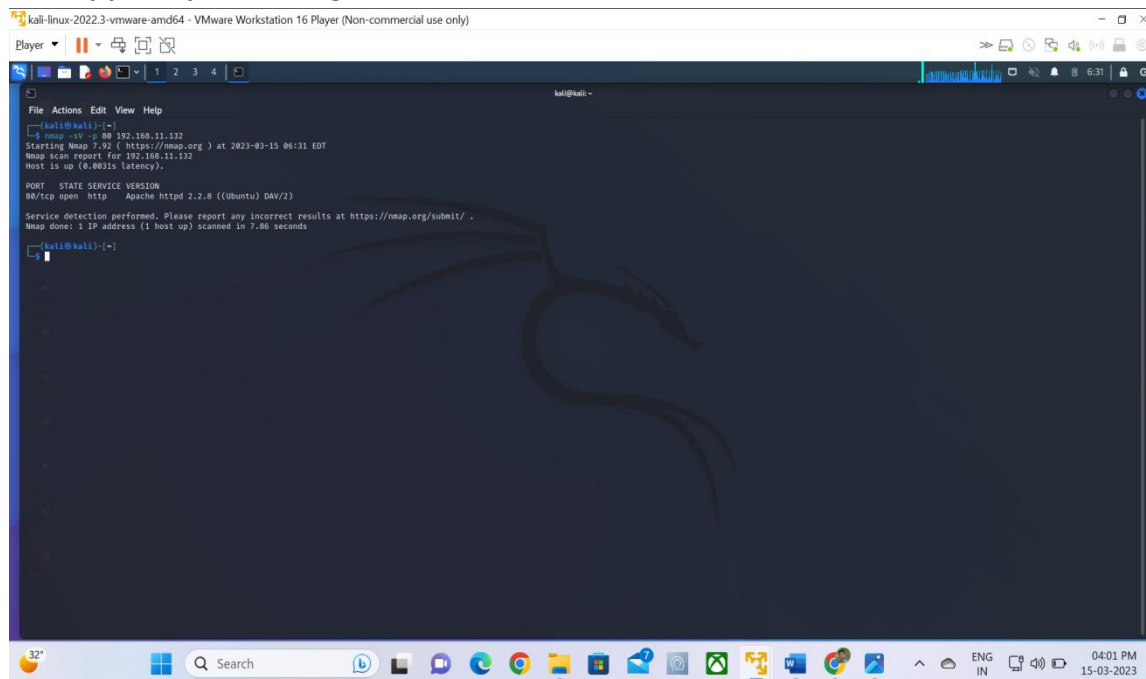
Forced browsing, also known as directory traversal, is a type of security vulnerability that occurs when an attacker is able to access files and directories on a web server that are not intended to be publicly accessible. This vulnerability can be exploited by attackers to gain unauthorized access to sensitive information or to launch further attacks.

To mitigate forced browsing vulnerabilities, it is important to implement proper access controls and to validate user input. Web servers should be configured to restrict access to sensitive files and directories and to use secure file permissions. Input validation and sanitization can help prevent attacks that attempt to modify URLs or inject malicious code. Web application firewalls can also be used to detect and block forced browsing attacks.

### 10.components with known vulnerability:

**Using Components with Known Vulnerabilities According to OWASP: Using Components with Known Vulnerabilities Components, such as libraries, frameworks, and other software modules, run with the same privileges as the application. If a vulnerable component is exploited, such an attack can facilitate severe data loss or server takeover. Applications and APIs using components with known vulnerabilities may undermine the app.**

**These attacks have become commonplace because it is far easier for an attacker to use a known weakness than create a specific program or attack methodology to search out vulnerabilities themselves. This fact should put known component vulnerabilities high on your security priority list to mitigate.**





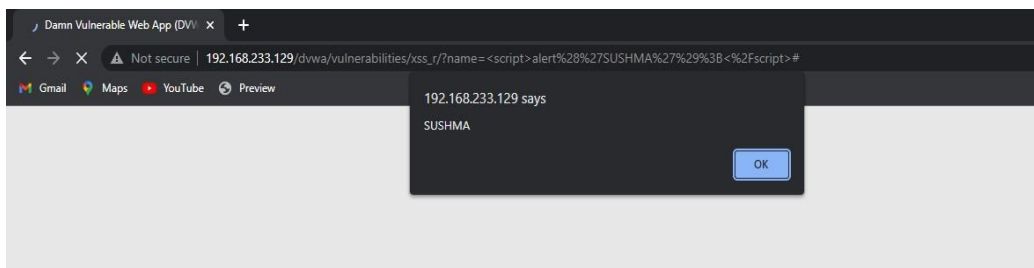
## **11.HTML injection:**

HTML injection vulnerabilities typically arise from insufficient input validation or sanitization in a web application. Attackers can inject malicious code into input fields, such as login forms, comment sections, or search fields, and the code is then displayed to other users who visit the page. When the code is executed in the browser of the victim, it can steal cookies, session tokens, or other sensitive information, or redirect the victim to a malicious website.

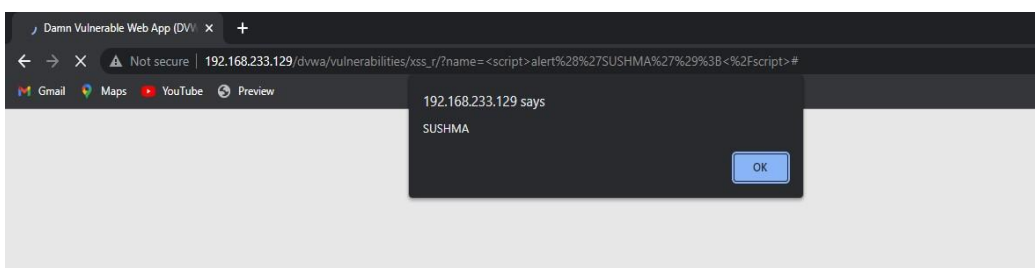
Developers should also avoid using unsanitized user input in HTML output, and use frameworks that provide built-in security features, such as template engines that automatically sanitize user input. It is also important to provide security awareness training to users to help them identify and avoid phishing attacks and other forms of social engineering.

### **i.Security level: Low:**

#### **Reflected-HTML**



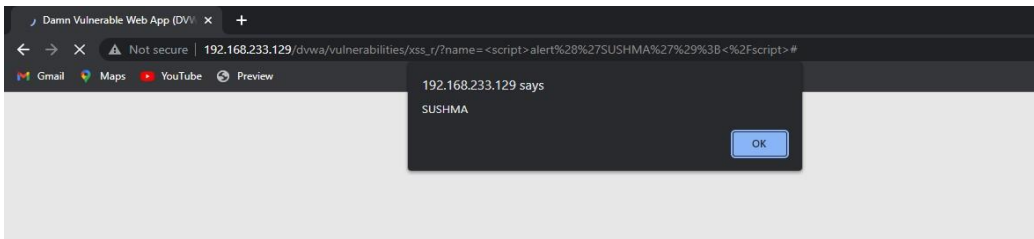
#### **Stored-HTML:**



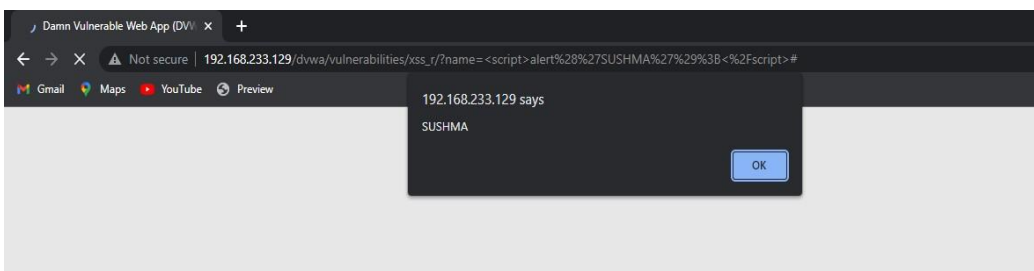


## ii. Security level: Medium:

### Reflected-HTML

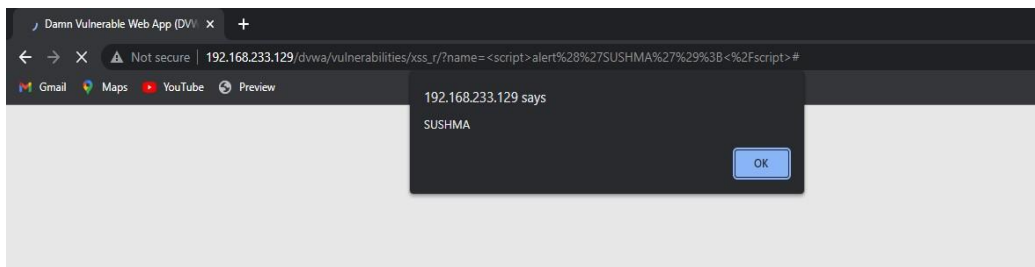


## Stored-HTML:



## iii. Security level: High

### Reflected-HTML



## Stored-HTML:

