

Task Report 3

13/03/2023

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G O V E R N M E N T P O L Y T E C H N I C U D U P I



1.Command Execution Vulnerability.

Finding an application that allows a penetration tester to execute system commands is one of the most critical vulnerabilities that a penetration tester can discover during a web application penetration test. This vulnerability is widespread because it allows any unauthorised or malicious user to execute commands from the web application to the system and harvest large amounts of information or compromise the target host. In this article, we will demonstrate how to exploit this vulnerability by using the Damn Vulnerable Web Application.

This vulnerability exists because the attacker has the ability to directly execute system commands. This vulnerability exists because the web application accepts user input without first sanitising it and then passes it directly to the operating system. An attacker can obtain a large amount of information about the host, and this threat must be mitigated as soon as it is discovered.

Low Level:

Command : <ip address> && ipconfig

The screenshot displays the DVWA web application interface. At the top, the DVWA logo is visible. On the left side, there is a navigation menu with buttons for Home, Instructions, Setup, Brute Force, Command Execution (highlighted in green), 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" and features a "Ping for FREE" section. This section prompts the user to "Enter an IP address below:" and includes a text input field and a "submit" button. Below the input field, the output of a ping command is displayed in red text: "PING 192.168.65.128 (192.168.65.128) 56(84) bytes of data. 64 bytes from 192.168.65.128: icmp_seq=1 ttl=64 time=0.010 ms 64 bytes from 192.168.65.128: icmp_seq=2 ttl=64 time=0.019 ms 64 bytes from 192.168.65.128: icmp_seq=3 ttl=64 time=0.021 ms --- 192.168.65.128 ping statistics --- 3 packets transmitted, 3 received, 0% packet loss, time 1998ms rtt min/avg/max/mdev = 0.010/0.016/0.021/0.006 ms". Below the ping output, there is a "More info" section with three links: <http://www.scribd.com/doc/2530476/Php-Endangers-Remote-Code-Execution>, <http://www.ss64.com/bash/>, and <http://www.ss64.com/nt/>. At the bottom left, the user's session information is shown: "Username: admin", "Security Level: high", and "PHPIDS: disabled". At the bottom right, there are "View Source" and "View Help" buttons. The footer at the very bottom states "Damn Vulnerable Web Application (DVWA) v1.0.7".

Medium Level:

Command : <ip address> | cat/etc/passwd



The screenshot shows the DVWA (Damn Vulnerable Web Application) interface at the Medium Security Level. The left sidebar contains navigation links: Home, Instructions, Setup, Brute Force, 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" and features a "Ping for FREE" section. It prompts the user to "Enter an IP address below:" with a text input field and a "submit" button. Below the input field, a list of system users and their home directories is displayed in red text, including root, daemon, bin, sys, sync, games, man, lp, mail, news, uucp, proxy, www-data, backup, list, irc, gnats, nobody, libuuid, dhcp, syslog, klogd, nfsd, ftp, postgres, mysql, tomcat5, distccd, user, service, telnetd, proftpd, and statd. At the bottom, it shows "More info" links to external resources and "View Source" and "View Help" buttons. The footer indicates the username is "admin", security level is "medium", and PHPIDS is disabled.

High Level:

Command : <ip address>



The screenshot shows the DVWA interface at the High Security Level. The left sidebar is identical to the Medium level, with "Command Execution" highlighted. The main content area is titled "Vulnerability: Command Execution" and features the same "Ping for FREE" section. The "submit" button has been clicked, and the output of the command execution is displayed in red text. The output shows a successful ping to 192.168.19.129, with details such as "56(84) bytes of data", "64 bytes from 192.168.19.129: icmp_seq=1 ttl=64 time=0.011 ms", and "3 packets transmitted, 3 received, 0% packet loss, time 1998ms". Below the output, it shows "More info" links and "View Source" and "View Help" buttons. The footer indicates the username is "admin", security level is "high", and PHPIDS is disabled.

2. File Upload Vulnerability.

File upload vulnerabilities are a significant issue with web-based applications. In many web servers, this vulnerability is entirely intentional, allowing an attacker to upload a file containing malicious code that can then be executed on the server. An attacker may be able to insert a phishing page or deface the website.

The attacker may reveal internal web server information to others, and some sensitive data may be accessed informally by unauthorised individuals.

In DVWA, the webpage allows the user to upload an image, and the webpage checks if the last characters of the file are '.jpg', '.jpeg', or '.png' before allowing the image to be uploaded in the directory.

Low Level:



The screenshot displays the DVWA web application interface. At the top, the DVWA logo is visible. On the left, a sidebar contains a list of navigation links: Home, Instructions, Setup, Brute Force, Command Execution, CSRF, File Inclusion, SQL Injection, SQL Injection (Blind), Upload (highlighted in green), XSS reflected, XSS stored, DVWA Security, PHP Info, About, and Logout. The main content area is titled "Vulnerability: File Upload". It features a form with the text "Choose an image to upload:" and a "Choose File" button. Below the button, it says "No file chosen". An "Upload" button is also present. A red message below the button reads: ".../../hackable/uploads/Upload.png succesfully uploaded!". Under the "More info" section, there are three links: http://www.owasp.org/index.php/Unrestricted_File_Upload, <http://blogs.securiteam.com/index.php/archives/1268>, and <http://www.acunetix.com/websitesecurity/upload-forms-threat.htm>. At the bottom left, the user's session information is shown: "Username: admin", "Security Level: low", and "PHPIDS: disabled". At the bottom right, there are "View Source" and "View Help" buttons. The footer at the very bottom states "Damn Vulnerable Web Application (DVWA) v1.0.7".

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SQL Injection

SQL Injection (Blind)

Weak Session IDs

XSS (DOM)

XSS (Reflected)

XSS (Stored)

CSP Bypass

JavaScript

Vulnerability: File Upload

Choose an image to upload:

Browse...

No file selected.

Upload

../../../../hackable/uploads/pass succesfully uploaded!

More Information

- https://www.owasp.org/index.php/Unrestricted_File_Upload
- <https://www.acunetix.com/websecurity/upload-forms-threat/>

The screenshot shows the Burp Suite interface with the 'Intercept' tab selected. A request to `http://192.168.15.129:80` is intercepted. The request details are as follows:

- Method:** POST
- URL:** `/dwn/vulnerabilities/upload/`
- Host:** `192.168.15.129`
- User-Agent:** `Mozilla/5.0 (X11; Linux x86_64; rv:91.0) Gecko/20100101 Firefox/91.0`
- Accept:** `text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8`
- Accept-Language:** `en-US,en;q=0.5`
- Accept-Encoding:** `gzip, deflate`
- Content-Type:** `multipart/form-data; boundary=-----13250502632450151001056200141`
- Content-Length:** `1291`
- Origin:** `http://192.168.15.129`
- Connection:** `close`
- Referer:** `http://192.168.15.129/dwn/vulnerabilities/upload/`
- Cookie:** `securityhigh; PHPSESSID=8562a3dfaf56c8b0dd7d2ef0ed8bb0`
- Upgrade-Insecure-Requests:** `1`

The request body is a multipart/form-data payload. The visible parts are:

- `Content-Disposition: form-data; name="MAX_FILE_SIZE"`
- `100000`
- `Content-Disposition: form-data; name="uploaded"; filename="hack.php.jpeg"`
- `Content-Type: image/jpeg`

The raw data shows a PHP error report and a file upload attempt using `$_FILES['upload']`.



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Weak Session IDs

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XSS (Stored)

CSP Bypass

Tools/Scripts

Vulnerability: File Upload

Choose an image to upload:

No file selected.

.../.../hackable/uploads/pass succesfully uploaded!

More Information

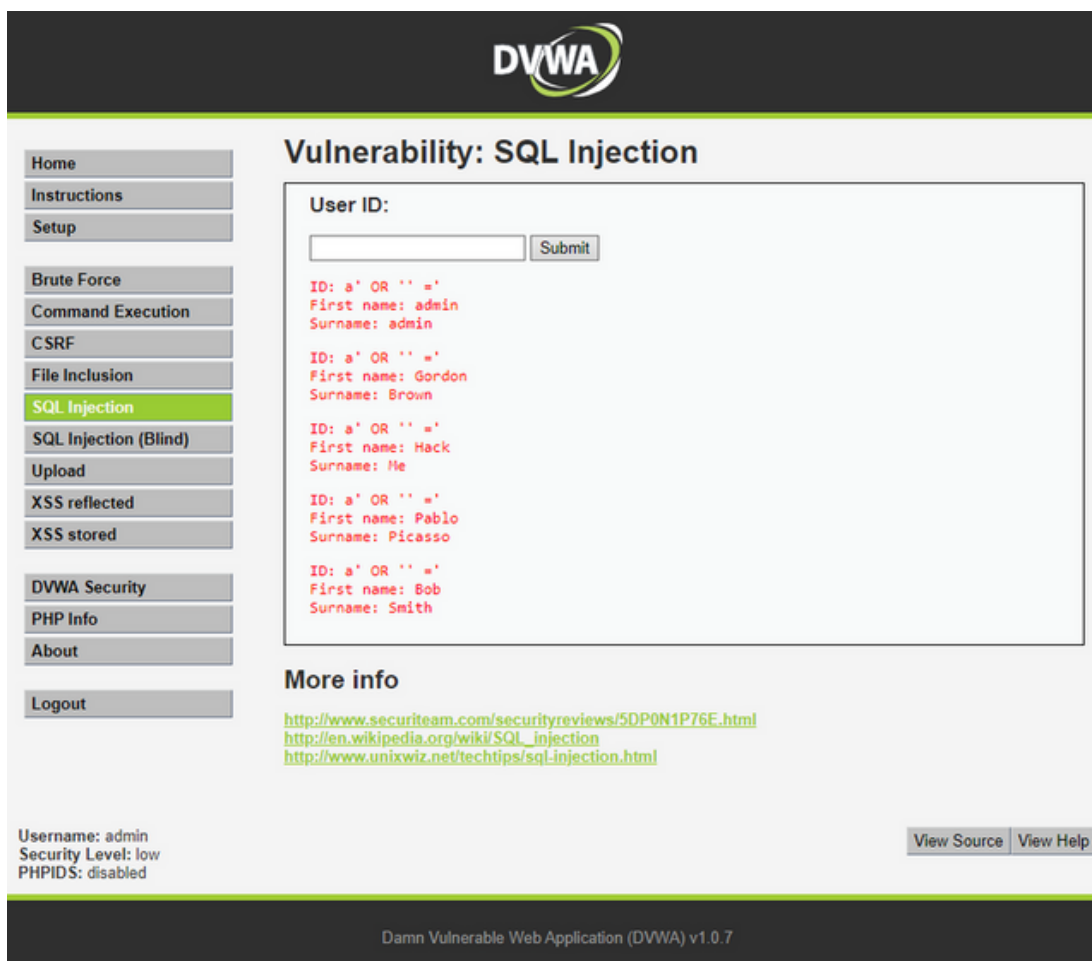
- https://www.owasp.org/index.php/Unrestricted_File_Upload
- <https://www.acunetix.com/websecurity/upload-forms-threat/>

3. SQL Injection Vulnerability.

SQL injection is regarded as a high-risk vulnerability because it can result in the complete compromise of the remote system. This is why, in almost all web application penetration testing engagements, SQL injection flaws are always checked. A general and simple definition of when an application is vulnerable to SQL injection attacks is when the application allows you to interact with the database and execute queries on the database.

There are many vulnerable applications you can try to learn about SQL injection exploitation, but in this article we will concentrate on the Damn Vulnerable Web Application (DVWA) and how we can extract information from the database using SQL injection.

Low Level:



The screenshot displays the DVWA web application interface. At the top, the DVWA logo is visible. On the left, a sidebar contains navigation links: Home, Instructions, Setup, Brute Force, Command Execution, CSRF, File Inclusion, SQL Injection (highlighted), SQL Injection (Blind), Upload, XSS reflected, XSS stored, DVWA Security, PHP Info, About, and Logout. The main content area is titled "Vulnerability: SQL Injection". It features a "User ID:" label, an input field, and a "Submit" button. Below the input field, the application displays the results of the query in red text, showing the first five users: admin, Gordon Brown, Hack Me, Pablo Picasso, and Bob Smith. Each result includes the ID, first name, and surname. Below the results, a "More info" section provides three links to external resources: a security review, a Wikipedia article, and a tech tips page. At the bottom left, the current session information is shown: Username: admin, Security Level: low, and PHPIDS: disabled. At the bottom right, there are "View Source" and "View Help" buttons. The footer indicates the application is "Damn Vulnerable Web Application (DVWA) v1.0.7".

Vulnerability: SQL Injection

User ID:

ID: a' OR '' = '
First name: admin
Surname: admin

ID: a' OR '' = '
First name: Gordon
Surname: Brown

ID: a' OR '' = '
First name: Hack
Surname: Me

ID: a' OR '' = '
First name: Pablo
Surname: Picasso

ID: a' OR '' = '
First name: Bob
Surname: Smith


More info

<http://www.securiteam.com/securityreviews/5DP0N1P76E.html>
http://en.wikipedia.org/wiki/SQL_injection
<http://www.unixwiz.net/techtips/sql-injection.html>

Username: admin
Security Level: low
PHPIDS: disabled

Damn Vulnerable Web Application (DVWA) v1.0.7

Medium Level:



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[Upload](#)
[XSS reflected](#)
[XSS stored](#)

[DVWA Security](#)
[PHP Info](#)
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[Logout](#)

Vulnerability: SQL Injection

User ID:

```
ID: a' OR '' ='  
First name: admin  
Surname: admin  
  
ID: a' OR '' ='  
First name: Gordon  
Surname: Brown  
  
ID: a' OR '' ='  
First name: Hack  
Surname: Me  
  
ID: a' OR '' ='  
First name: Pablo  
Surname: Picasso  
  
ID: a' OR '' ='  
First name: Bob  
Surname: Smith
```

More info


<http://www.securiteam.com/securityreviews/5DP0N1P76E.html>
http://en.wikipedia.org/wiki/SQL_injection
<http://www.unixwiz.net/techtips/sql-injection.html>

[View Source](#) [View Help](#)

Username: admin
Security Level: low
PHPIDS: disabled

Damn Vulnerable Web Application (DVWA) v1.0.7

High Level:



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Vulnerability: SQL Injection

User ID:

```
ID: a' OR '' ='  
First name: admin  
Surname: admin  
  
ID: a' OR '' ='  
First name: Gordon  
Surname: Brown  
  
ID: a' OR '' ='  
First name: Hack  
Surname: Me  
  
ID: a' OR '' ='  
First name: Pablo  
Surname: Picasso  
  
ID: a' OR '' ='  
First name: Bob  
Surname: Smith
```

More info

<http://www.securiteam.com/securityreviews/5DP0N1P76E.html>
http://en.wikipedia.org/wiki/SQL_injection
<http://www.unixwiz.net/techtips/sql-injection.html>

[View Source](#) [View Help](#)

Username: admin
Security Level: low
PHPIDS: disabled

Damn Vulnerable Web Application (DVWA) v1.0.7

4. Cross-Site Scripting.

Cross-site scripting (XSS) is a computer security flaw that is commonly found in Web applications.

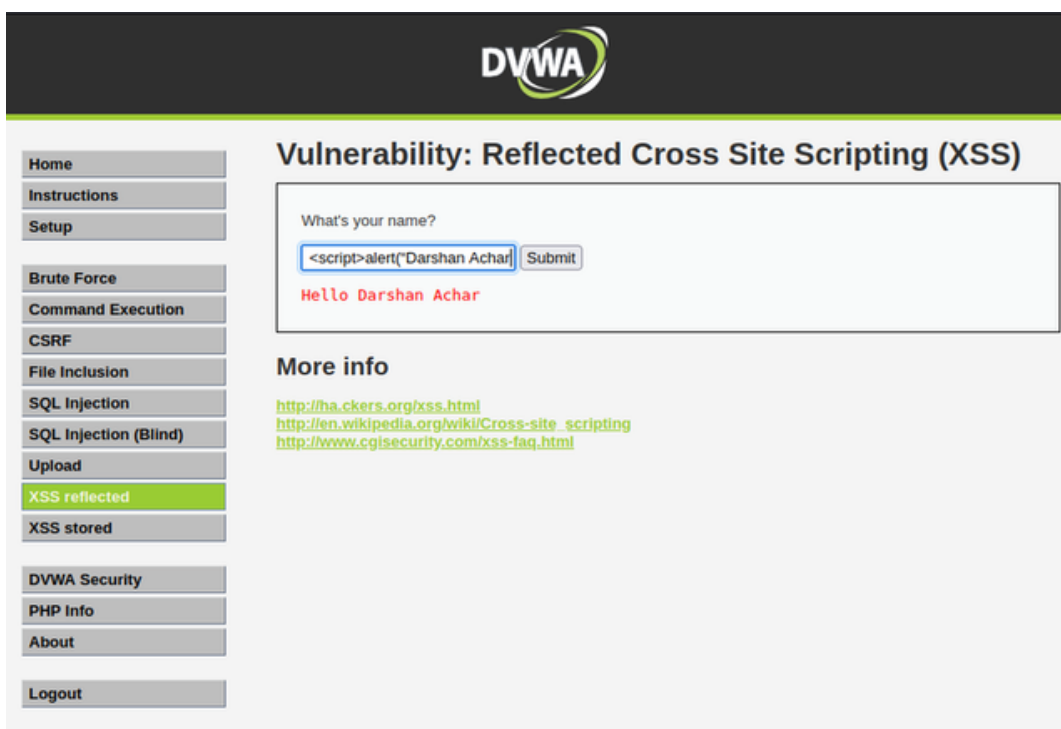
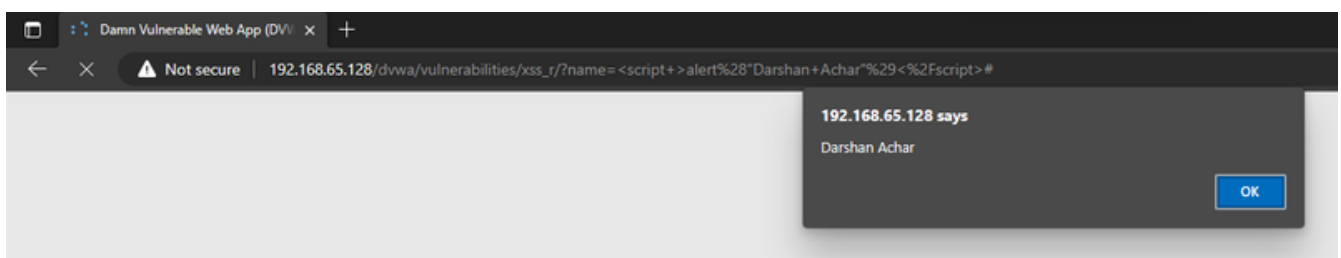
XSS allows attackers to inject client-side script into Web pages that other users are viewing.

Attackers may exploit a cross-site scripting vulnerability to circumvent access controls such as the same origin policy.

In addition, the attacker can send input (e.g., username, password, session ID, etc.) that an external script can later capture.

The victim's browser has no way of knowing that the script should not be trusted, so it will run it. Because the malicious script believes the script came from a trusted source, it has access to any cookies, session tokens, or other sensitive information stored by the browser and used with that site.

Output for Low,Medium,High are same:



5.Sensitive Information Disclosure.

Sensitive Information Disclosure (also known as Sensitive Data Exposure) occurs when an application fails to adequately protect sensitive information, which may end up being disclosed to parties who should not have access to it.

Application-related information, such as session tokens, file names, and stack traces, can be considered sensitive data, as can confidential information, such as passwords, credit card data, sensitive health data, private communications, intellectual property, metadata, the product's source code, and so on.

Whatever security flaw is causing the information to be exposed, all aspects of all services are potentially jeopardised.

Low Level:

The screenshot displays a web browser window with an HTTP response in the developer tools. The response headers are as follows:

```
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
```

Below the browser window, the DVWA (Damn Vulnerable Web Application) interface is shown. The page title is "DVWA Security". The security level is currently set to "low". The page also includes a section for "Script Security" and "PHPIDS" (PHP-Intrusion Detection System).

DVWA 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.

PHPIDS

PHPIDS v.0.6 (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**. [\[enable PHPIDS\]](#)

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

Medium Level:

The screenshot shows a web browser window with the DVWA (Damn Vulnerable Web Application) interface. The top part of the browser displays an HTTP response from a server. The response headers and body are visible, showing a successful 200 OK status and various server information.

HTTP Response:

```
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
```

The DVWA Security page is displayed below the browser window. The page title is "DVWA Security" with a lock icon. The left sidebar contains a list of navigation links: Home, Instructions, Setup, Brute Force, Command Execution, CSRF, File Inclusion, SQL Injection, SQL Injection (Blind), Upload, XSS reflected, XSS stored, DVWA Security (highlighted), and 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.

PHPIDS

PHPIDS v.0.6 (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**. [\[enable PHPIDS\]](#)

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

High Level:

The screenshot shows the DVWA Security page with the security level set to high. The page layout is identical to the previous one, but the security level dropdown is now set to "high".

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.

PHPIDS

PHPIDS v.0.6 (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.

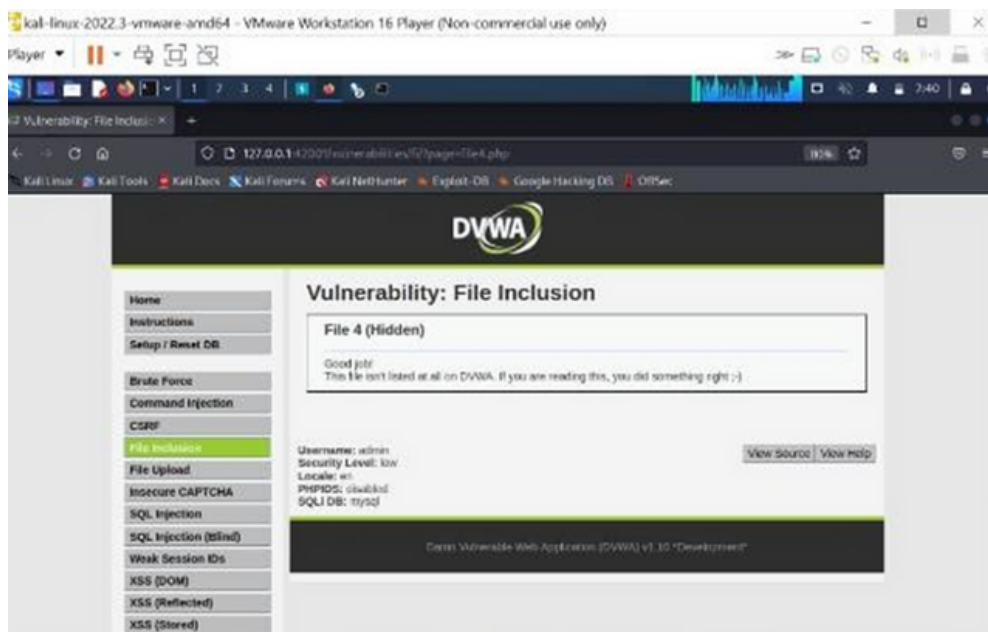
PHPIDS is currently **disabled**. [\[enable PHPIDS\]](#)

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

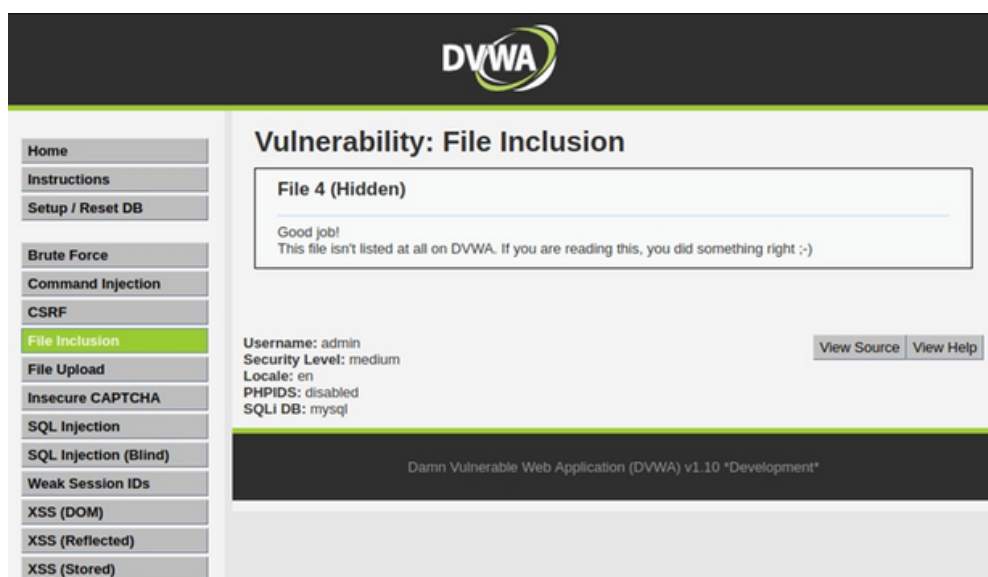
6. Local File Inclusion.

Local File Inclusion (LFI) can be used by an attacker to trick the web application into exposing or running files on the web server. An LFI attack could result in data disclosure, remote code execution, or even Cross-site Scripting (XSS). LFI typically occurs when an application uses a file path as input. If the application considers this input to be trusted, the include statement may include a local file.


Low Level:



Medium Level:



High Level:



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Insecure CAPTCHA

SQL Injection

SQL Injection (Blind)

Weak Session IDs

XSS (DOM)

XSS (Reflected)

XSS (Stored)

Vulnerability: File Inclusion

File 4 (Hidden)

Good job!
This file isn't listed at all on DVWA. If you are reading this, you did something right ;-)

Username: admin
Security Level: high
Locale: en
PHPIDS: disabled
SQLi DB: mysql

[View Source](#) [View Help](#)

Damn Vulnerable Web Application (DVWA) v1.10 *Development*

7.Remote File Inclusion.

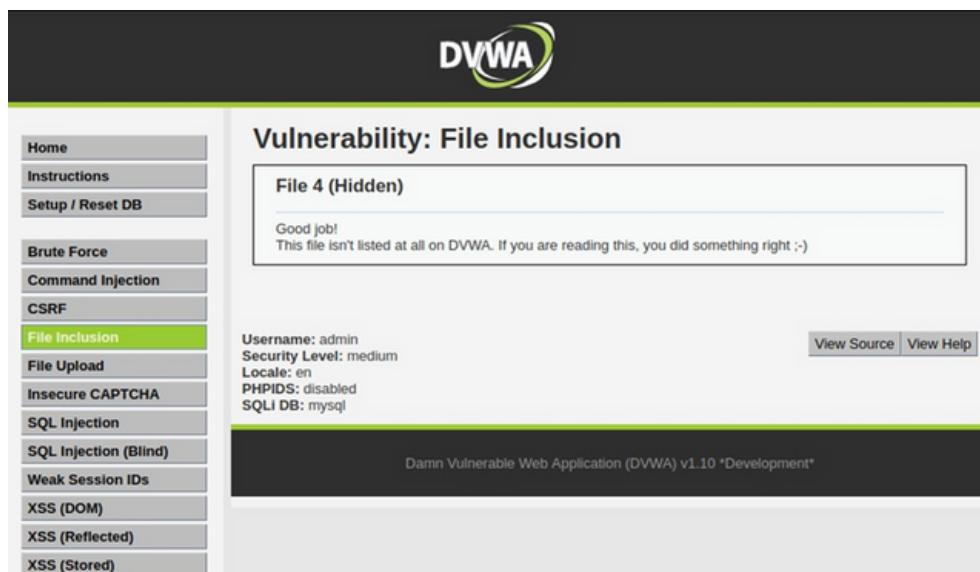
An attacker can cause the web application to include a remote file by using remote file inclusion (RFI). This is possible for web applications that include external files or scripts dynamically. The potential web security consequences of a successful RFI attack range from sensitive information disclosure to Cross-site Scripting (XSS) and, as a result, full system compromise.

When an application receives a path to a file as input for a web page and does not properly sanitise it, a remote file inclusion attack occurs. This enables the include function to be supplied with an external URL.


Low Level:



Medium Level:



High Level:



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SQL Injection (Blind)

Weak Session IDs

XSS (DOM)

XSS (Reflected)

XSS (Stored)

Vulnerability: File Inclusion

File 4 (Hidden)

Good job!
This file isn't listed at all on DVWA. If you are reading this, you did something right ;-)

Username: admin
Security Level: high
Locale: en
PHPIDS: disabled
SQLi DB: mysql

[View Source](#) [View Help](#)

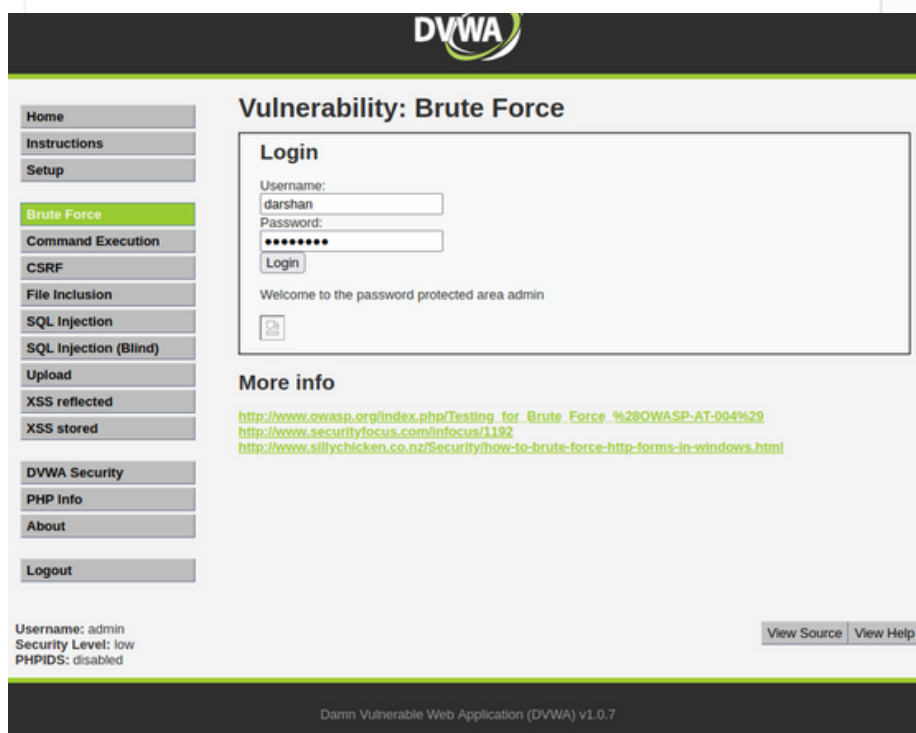
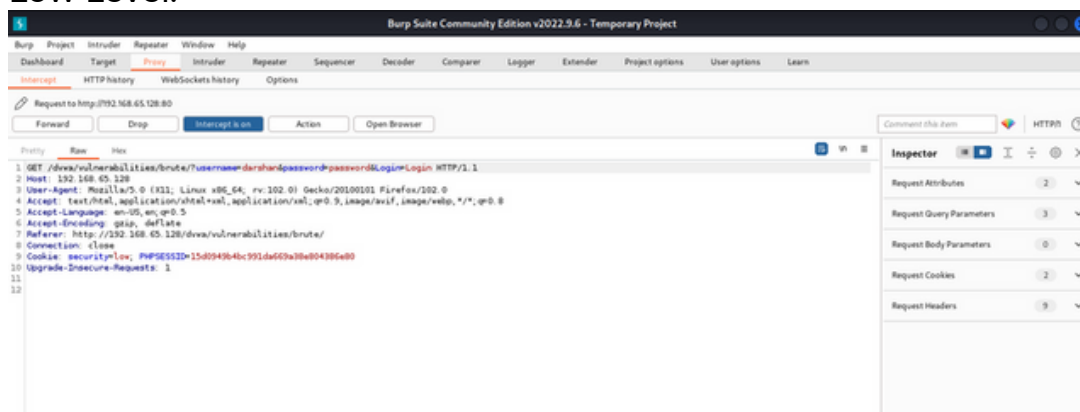
Damn Vulnerable Web Application (DVWA) v1.10 "Development"

8.Brute Force Attack.

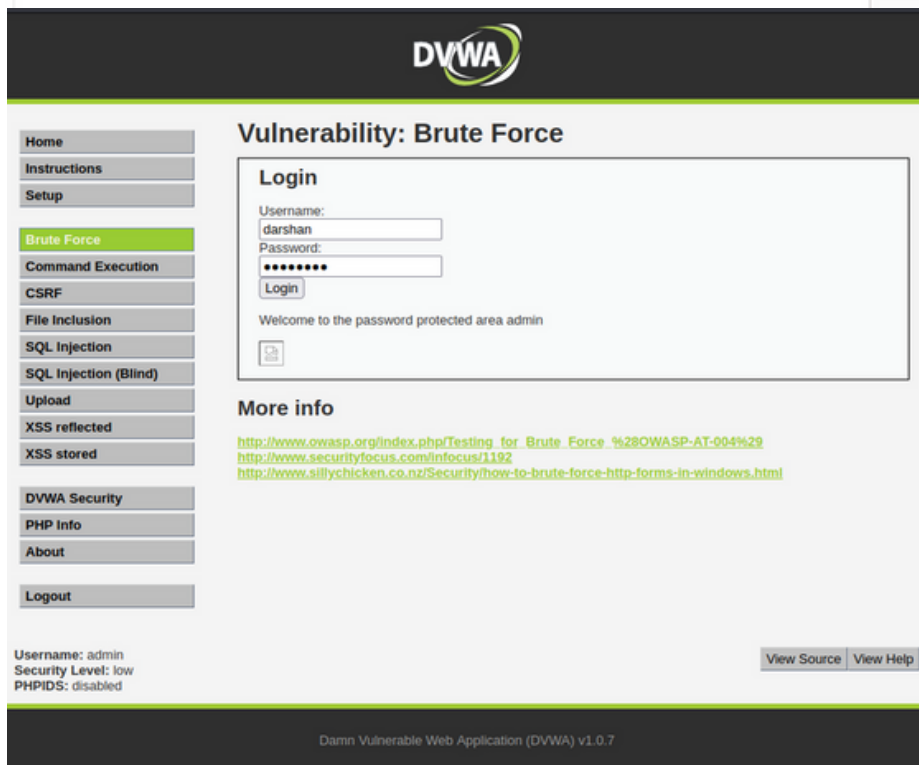
A brute force attack is a type of hacking that employs trial and error to crack passwords, login credentials, and encryption keys. It is a simple yet dependable method for gaining unauthorised access to individual accounts as well as systems and networks of organisations. The hacker tries a variety of usernames and passwords, frequently using a computer to test a large number of combinations, until they find the correct login information.

The term "brute force" refers to attackers who use excessive force to gain access to user accounts. Despite being an old cyberattack method, brute force attacks have been tried and tested and are still a popular hacking tactic.

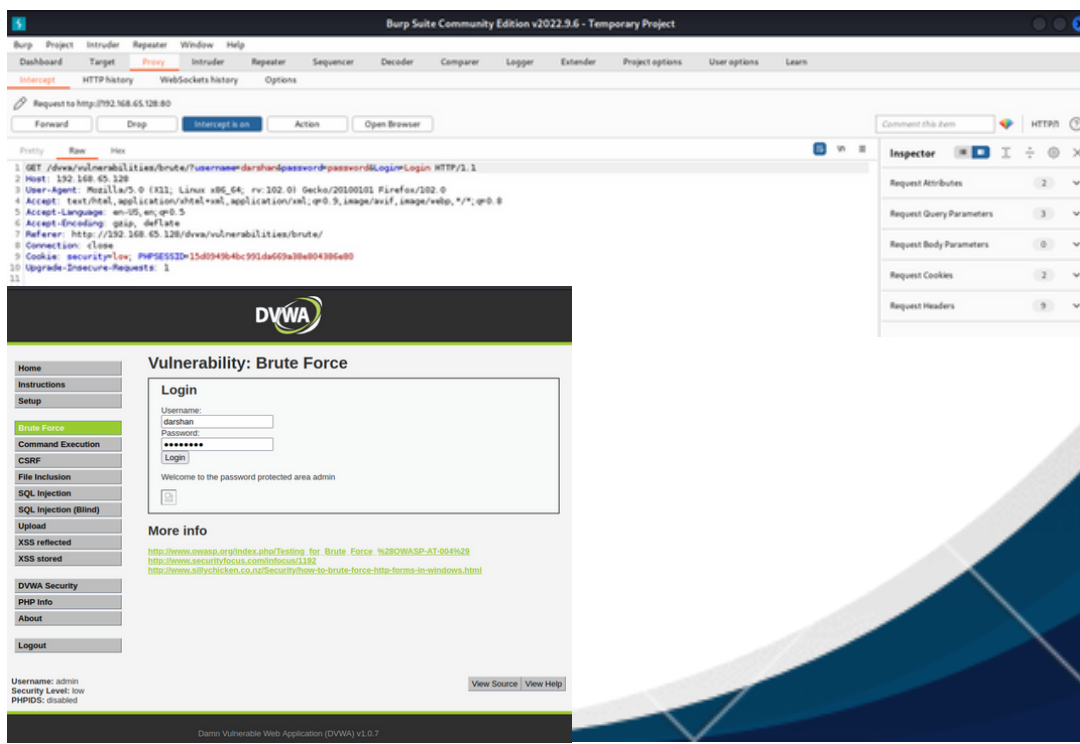
Low Level:



Medium Level:



High Level:



9. Forced Browsing Vulnerability.

Forced browsing, also known as forceful browsing, is an attack technique used against poorly protected websites and web applications that allows the attacker to access resources that they should not have access to. These resources may contain sensitive data. Forced browsing is a common security issue in web applications caused by sloppy coding.

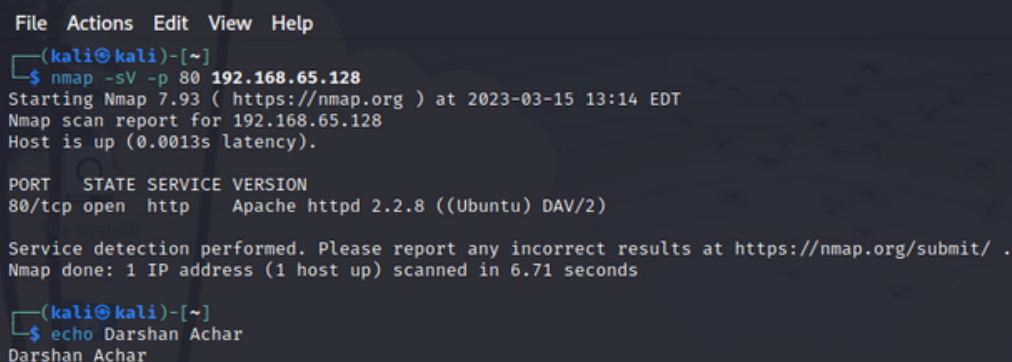
Mitre formally defines forced browsing in CWE-425. Forced browsing is not considered a separate category in the latest OWASP Top-10 2017 from the Open Web Application Security Project, but is included in category A5:2017-Broken Access Control.

10. Components with known Vulnerability.

Web services frequently include a component with a known security vulnerability. When this occurs, it falls into this category regardless of the type of component that is vulnerable, making this a very common finding.

The operating system, the CMS used, the web server, some plugin installed, or even a library used by one of these plugins could all be vulnerable.

These attacks have become commonplace because it is far easier for an attacker to exploit a known vulnerability than it is to develop a specific programme or attack methodology to find vulnerabilities themselves. This fact should put known component vulnerabilities at the top of your security priority list.



```
File Actions Edit View Help
(kali@kali)-[~]
└─$ nmap -sV -p 80 192.168.65.128
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-15 13:14 EDT
Nmap scan report for 192.168.65.128
Host is up (0.0013s latency).

PORT      STATE SERVICE VERSION
80/tcp    open  http    Apache httpd 2.2.8 ((Ubuntu) DAV/2)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 6.71 seconds

(kali@kali)-[~]
└─$ echo Darshan Achar
Darshan Achar
```

CVE Details

The ultimate security vulnerability datasource

(e.g.: CVE-2009-1234 or 2010-1234 or 20101234)

Search

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View CVE :

(e.g.: CVE-2009-1234 or 2010-1234 or 20101234)

View BID :

(e.g.: 12345)

Search By Microsoft

Reference ID:

(e.g.: ms10-001 or 979352)

Vulnerability Details : CVE-2000-1221

The line printer daemon (lpd) in the lpr package in multiple Linux operating systems authenticates by comparing the reverse-resolved hostname of the local machine to the hostname of the print server as returned by gethostname, which allows remote attackers to bypass intended access controls by modifying the DNS for the attacking IP.

Publish Date : 2000-01-08 Last Update Date : 2017-07-11

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- CVSS Scores & Vulnerability Types

| | |
|------------------------|---|
| CVSS Score | 10.0 |
| Confidentiality Impact | Complete (There is total information disclosure, resulting in all system files being revealed.) |
| Integrity Impact | Complete (There is a total compromise of system integrity. There is a complete loss of system protection, resulting in the entire system being compromised.) |
| Availability Impact | Complete (There is a total shutdown of the affected resource. The attacker can render the resource completely unavailable.) |
| Access Complexity | Low (Specialized access conditions or extenuating circumstances do not exist. Very little knowledge or skill is required to exploit.) |
| Authentication | Not required (Authentication is not required to exploit the vulnerability.) |
| Gained Access | None |
| Vulnerability Type(s) | Bypass a restriction or similar |
| CWE ID | CWE id is not defined for this vulnerability |

- Additional Vendor Supplied Data

| Vendor | Impact | CVSS Score | CVSS Vector | Report Date | Publish Date |
|------------------------|-----------|------------|-------------|-------------|--------------|
| Redhat | important | | | | 2000-01-08 |

If you are a vendor and you have additional data which can be automatically imported into our database, please contact admin @ cvedetails.com

- Products Affected By CVE-2000-1221

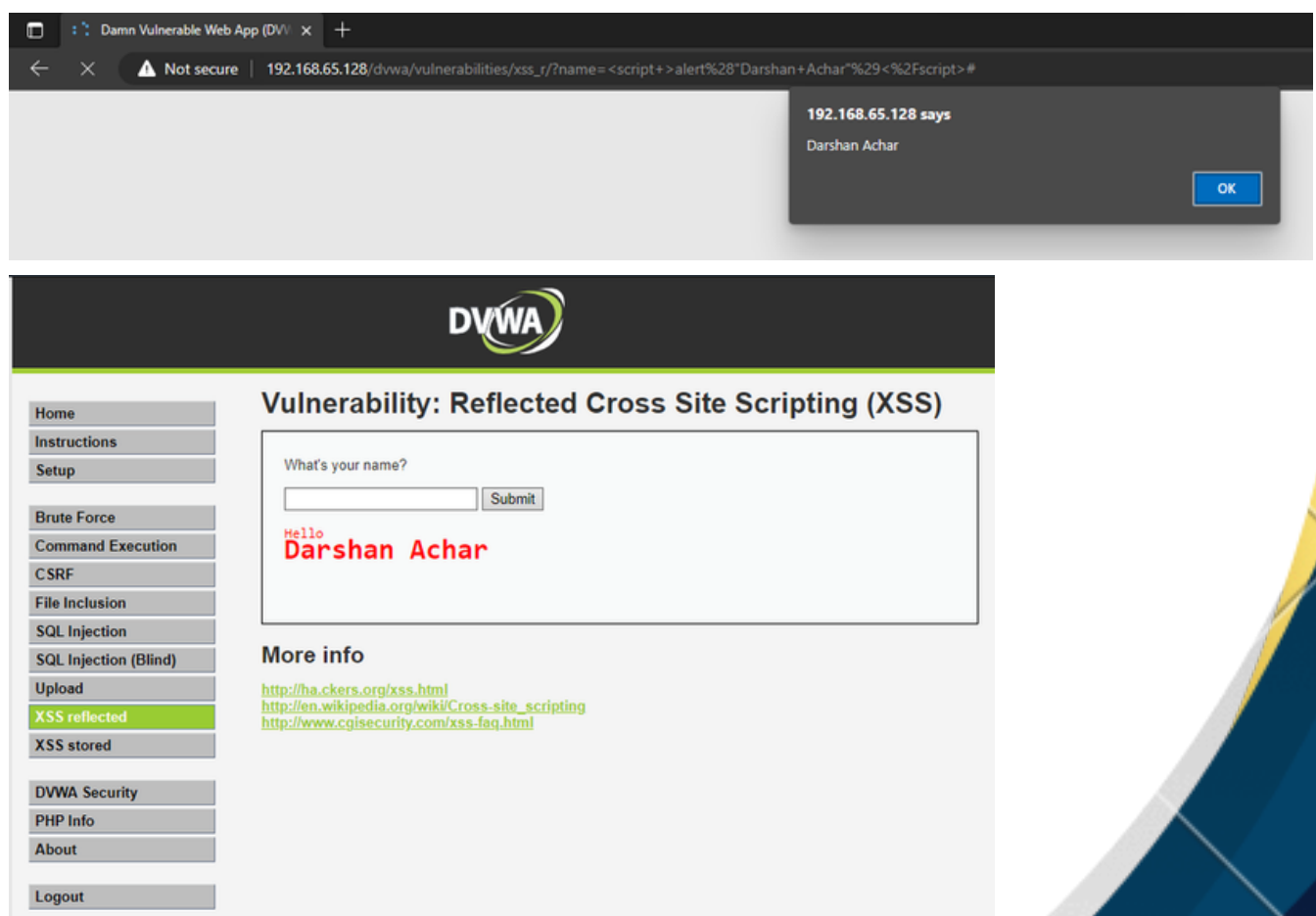
| # | Product Type | Vendor | Product | Version | Update | Edition | Language | |
|----|--------------|------------------------|------------------------------|---------|--------|---------|----------|---|
| 1 | OS | Debian | Debian Linux | 2.1 | * | * | * | Version Details Vulnerabilities |
| 2 | OS | Redhat | Linux | 4.1 | * | * | * | Version Details Vulnerabilities |
| 3 | OS | Redhat | Linux | 4.2 | * | * | * | Version Details Vulnerabilities |
| 4 | OS | Redhat | Linux | 5.0 | * | * | * | Version Details Vulnerabilities |
| 5 | OS | Redhat | Linux | 5.2 | * | 1386 | * | Version Details Vulnerabilities |
| 6 | OS | Redhat | Linux | 6.0 | * | * | * | Version Details Vulnerabilities |
| 7 | OS | Redhat | Linux | 6.1 | * | 1386 | * | Version Details Vulnerabilities |
| 8 | OS | SGI | Irix | 6.5 | * | * | * | Version Details Vulnerabilities |
| 9 | OS | SGI | Irix | 6.5.1 | * | * | * | Version Details Vulnerabilities |
| 10 | OS | SGI | Irix | 6.5.2 | * | * | * | Version Details Vulnerabilities |
| 11 | OS | SGI | Irix | 6.5.3 | * | * | * | Version Details Vulnerabilities |

11.HTML Injection.

HTML is the language that controls how application data (such as a product catalogue) is displayed to users in their web browser. This language includes visualisation commands such as changing the colour of the page's background and the size of embedded images. It also includes links to other web pages as well as additional commands for the user's browser. Furthermore, automated tools that collect useful information from the web on behalf of users frequently do so by accessing and parsing the relevant information in the application's HTML pages in a systematic manner.

Cross-site Scripting is closely related to HTML injection attacks (XSS). HTML injection defaces the page by using HTML. As the name suggests, XSS injects JavaScript into the page. Both attacks take advantage of insufficient validation of user input.

Output are same for Low,Medium,High Level:



The screenshot illustrates a successful Cross-Site Scripting (XSS) attack on the Damn Vulnerable Web App (DVWA). The browser window shows the URL `192.168.65.128/dvwa/vulnerabilities/xss_r?name=<script>alert%28'Darshan+Achar'%29<%2Fscript>#`. A JavaScript alert box is triggered, displaying the message "192.168.65.128 says" and "Darshan Achar". Below the browser, the DVWA interface is visible, with the "XSS reflected" vulnerability selected in the left-hand menu. The main content area shows the output of the attack: "Hello Darshan Achar" in red text, confirming that the injected payload was successfully executed.