NAME: KEERTHAN*

DATE: 13/03/2023

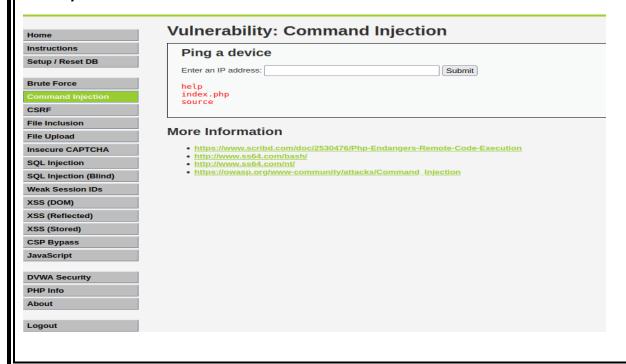
TASK-03

1)Command execution vulnerability: OS command injection (also known as shell injection) is a web security vulnerability that allows an attacker to execute arbitrary operating system (OS) commands on the server that is running an application, and typically fully compromise the application and all its data..

Security level: low



Security level: medium



Security level: high **Vulnerability: Command Injection** Home Instructions Ping a device Setup / Reset DB Enter an IP address: Submit Brute Force help index.php source CSRF More Information File Upload https://www.scribd.com/doc/2530476/Php-Endangers-Remote-Code-Execution http://www.ss64.com/bash/ http://www.ss64.com/nt/ Insecure CAPTCHA SQL Injection • https://owasp.org/www-community/attacks/Command_Injection SQL Injection (Blind) Weak Session IDs XSS (DOM) XSS (Reflected) XSS (Stored) **CSP Bypass** JavaScript

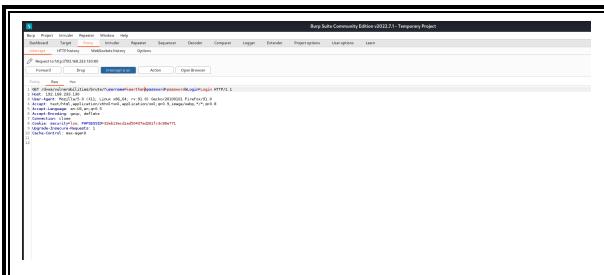
2) File upload vulnerability:

File upload vulnerability refers to a security flaw in web applications that allows attackers to upload and execute malicious files on the server. This type of vulnerability occurs when a web application does not properly validate the file being uploaded, allowing an attacker to upload a file with malicious code.

Security level: low

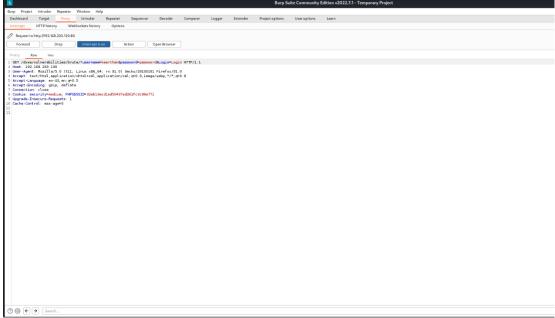
DVWA Security
PHP Info
About
Logout



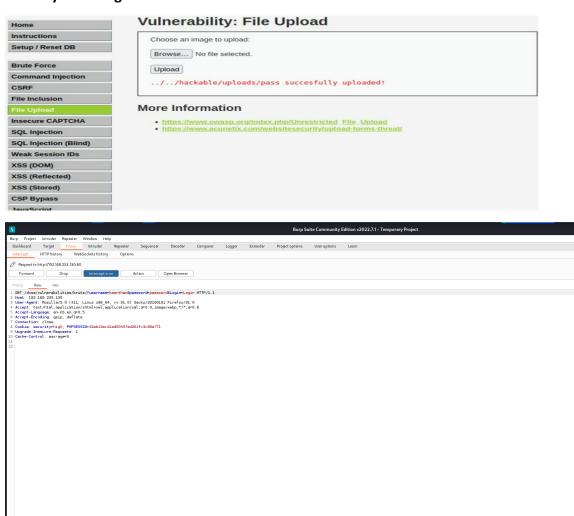


Security level: medium





Security level: high

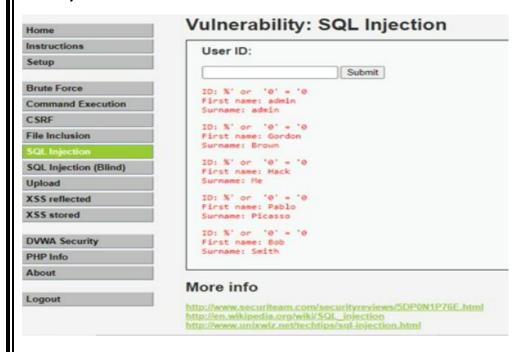


3) Sql Injection vulnerability:

SQL injection (SQLi) is a web security vulnerability that allows an attacker to interfere with the queries that an application makes to its database. It generally allows an attacker to view data that they are not normally able to retrieve. This might include data belonging to other users, or any other data

that the application itself is able to access. In many cases, an attacker can modify or delete this data, causing persistent changes to the application's content or behavior.

Security level: medium



Security level: high



Security level: low

Home		
Instructions	User ID:	
Setup	Submit	
Brute Force		
Command Execution	ID: %' or '0' = '0 First name: admin Surname: admin ID: %' or '0' = '0	
CSRF		
File Inclusion	First name: Gordon Surname: Brown	
SQL Injection	ID: %' or 'e' = 'e First name: Hack Surname: Me	
SQL Injection (Blind)		
Upload		
XSS reflected	ID: %' or 'e' = 'e First name: Pablo	
XSS stored	First name: Pablo Surname: Picasso ID: %' or '0' = '0 First name: Bob Surname: Smith	
DVWA Security		
PHP Info		
About		
Logout	More info http://www.securiteam.com/securityreviews/5DP0N1P76E.html	

4) Cross site scripting:

Cross-Site Scripting (XSS) attacks are a type of injection, in which malicious scripts are injected into otherwise benign and trusted websites. XSS attacks occur when an attacker uses a web application to send malicious code, generally in the form of a browser side script, to a different end user. Flaws that allow these attacks to succeed are quite widespread and occur anywhere a web application uses input from a user within the output it generates without validating or encoding it.

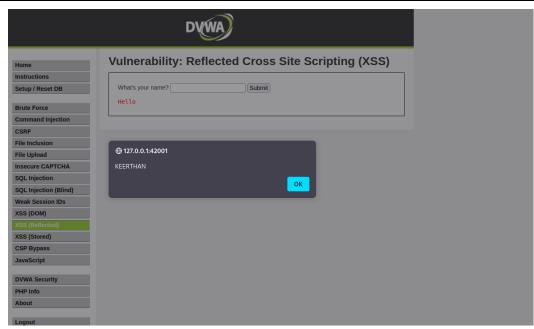
An attacker can use XSS to send a malicious script to an unsuspecting user. The end user's browser has no way to know that the script should not be trusted, and will execute the script. Because it thinks the script came from a trusted source, the malicious script can access any cookies, session tokens, or other sensitive information retained by the browser and used with that site. These scripts can even rewrite the content of the HTML page.

Security level low:

XSS reflected:

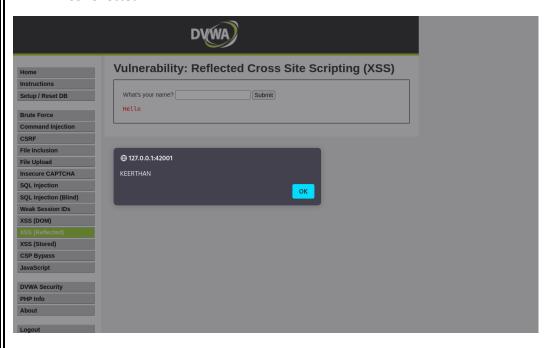


Security level: medium



XSS stored

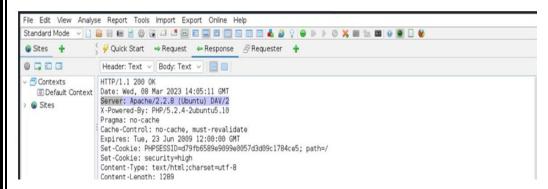
Security level: high



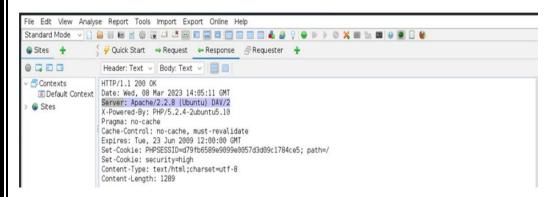
5) Sensitive information disclosure

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, including: Data about other users, such as usernames or financial information.

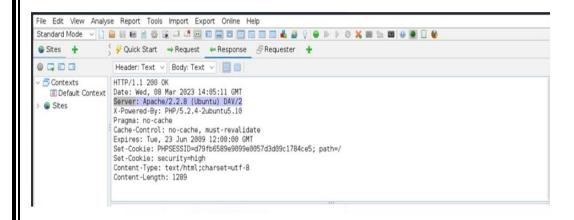
Security level: low



Security level: medium



Security level: high



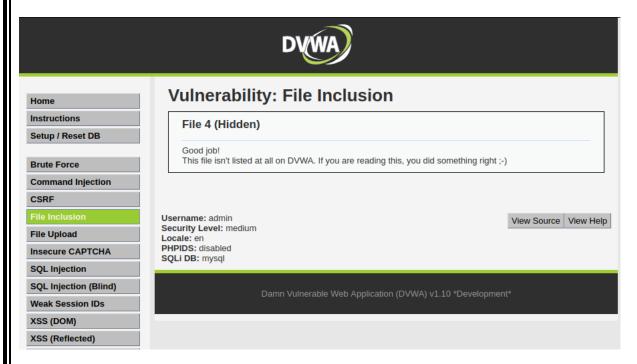
6) Local file inclusion:

Local file inclusion (also known as LFI) is the process of including files, that are already locally present on the server, through the exploiting of vulnerable inclusion procedures implemented in the application.

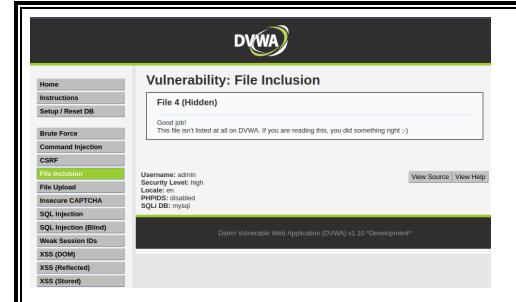
Security level: low



Security level: medium



ecurity level: high



7) Remote file inclusion:

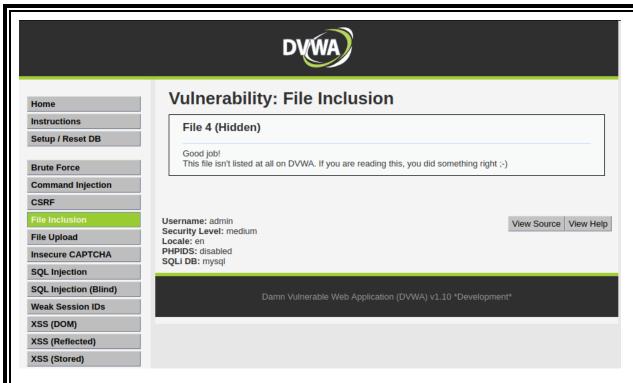
Remote file inclusion (RFI) is an attack targeting <u>vulnerabilities</u> in web applications that dynamically reference external scripts. The perpetrator's goal is to exploit the referencing function in an application to upload malware (e.g., <u>backdoor shells</u>) from a remote URL located within a different domain.

The consequences of a successful RFI attack include information theft, <u>compromised</u> servers and a site <u>takeover</u> that allows for content modification.

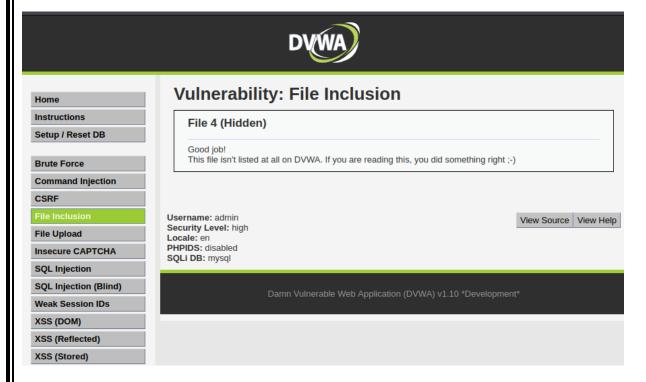
Low:

DVWA		
Horne	Vulnerability: File Inclusion	
Instructions	File 4 (Hidden)	
Setup / Reset DB	ric 4 (modely	
Brute Force	Good job! This file isn't listed at all on DVAVA. If you are reading this, you did something right ;-)	
Command Injection		
CSRF		
File Inclusion	Username: admin View Source View Help	
File Upload	Security Level: low Locale: en	
Insecure CAPTCHA	PHPIDS; disabled SQLI DB: mysel	
SQL Injection	afer per silvid	
SQL Injection (Blind)	Creat Micromable Web Application (DVWA) v1.10 "Development"	
Weak Session IDs		
XSS (DOM)		
XSS (Reflected)		
XSS (Stored)		

Medium:



High



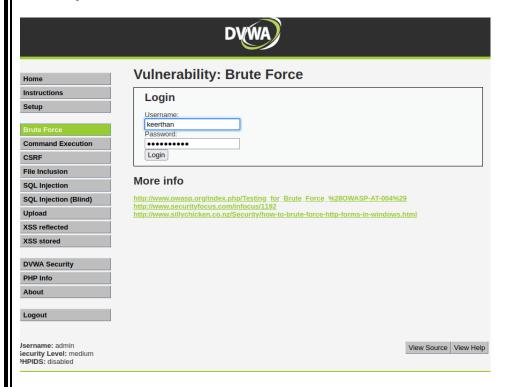
8)Bruteforce attack:

A brute force attack uses trial-and-error to guess login info, encryption keys, or find a hidden web page. Hackers work through all possible combinations hoping to guess correctly.

These attacks are done by 'brute force' meaning they use excessive forceful attempts to try and 'force' their way into your private account(s).

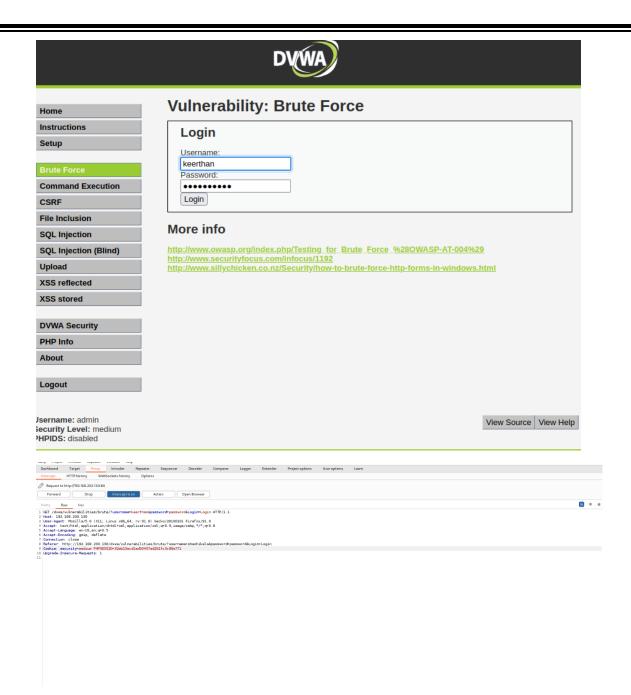
This is an old attack method, but it's still effective and popular with hackers. Because depending on the length and complexity of the password, cracking it can take anywhere from a few seconds to many years.

Security level: low

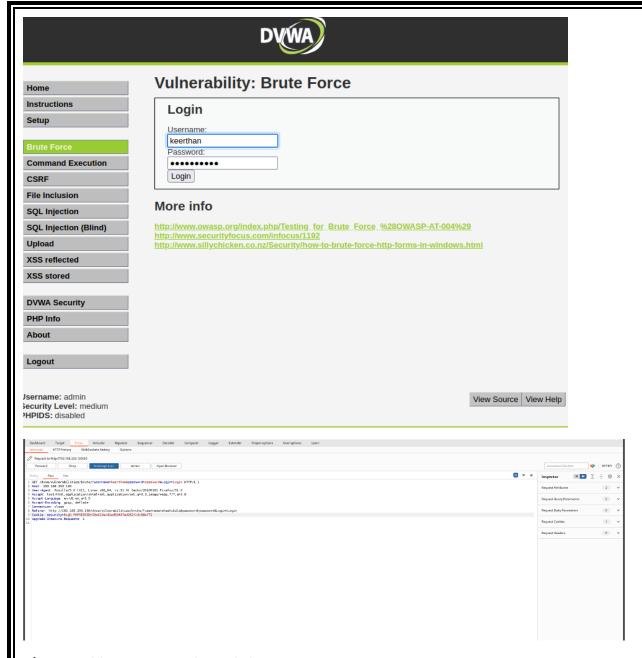




Security level: medium



Security level: high

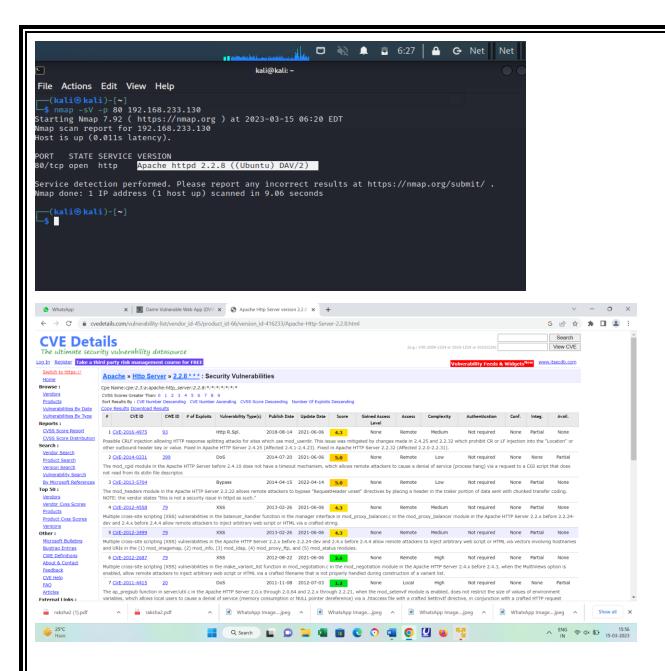


9) Forced browsing vulnerability:

Forced browsing attacks are the result of a type of security misconfiguration vulnerability. These kinds of vulnerabilities occur when insecure configuration or misconfiguration leave web application components open to attack. Misconfiguration vulnerabilities may exist in subsystems or software components.

10)Components with known vulnerability:

This kind of threat occurs when the components such as libraries and frameworks used within the app almost always execute with full privileges. If a vulnerable component is exploited, it makes the hacker's job easier to cause a serious data loss or server takeover.

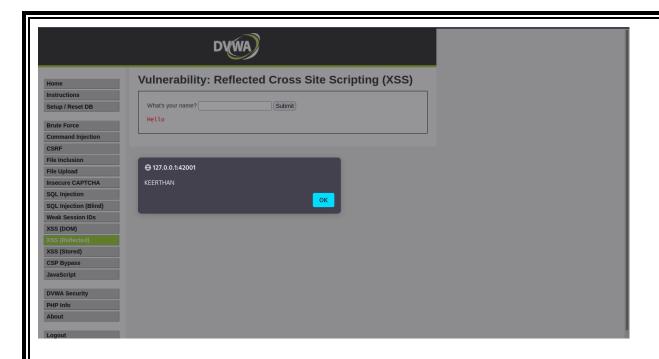


11)Html injection:

HTML Injection also known as Cross Site Scripting. It is a security vulnerability that allows an attacker to inject HTML code into web pages that are viewed by other users.

Attackers often inject malicious JavaScript, VBScript, ActiveX, and/or HTML into vulnerable applications to deceive the user in order to gather data from them. Cross-site scripting (XSS) vulnerabilities can be used by attackers to bypass authentication controls there by gaining access to sensitive data on your system. Well crafted malicious code can even help the attacker gain access to the entire system.

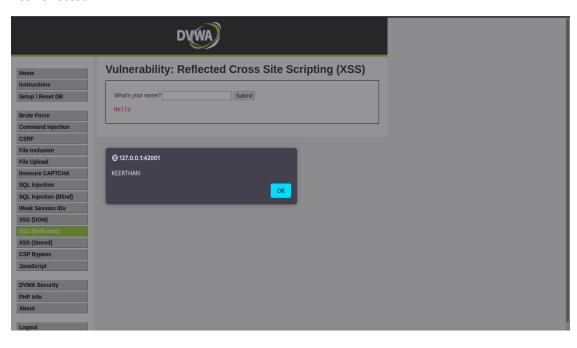
Security level low:



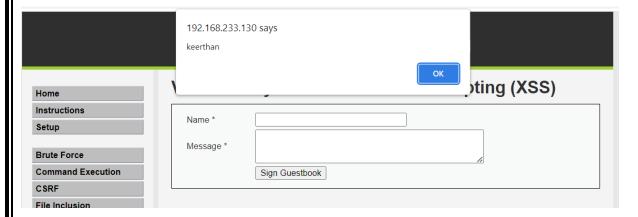
XSS STORED:



Security level: medium

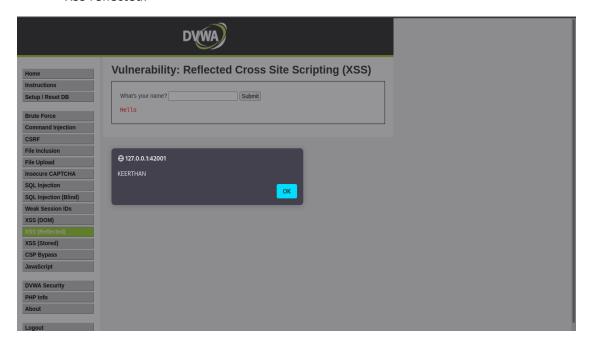


XSS STORED:



Security level: high

XSS reflected:



XSS STORED:

