

Search and destroy with Burp Suite

## (File Upload Exploit Vulnerability)

Let's upload a PHP shell to gain a reverse shell.

### g.1 Create a PHP Reverse shell

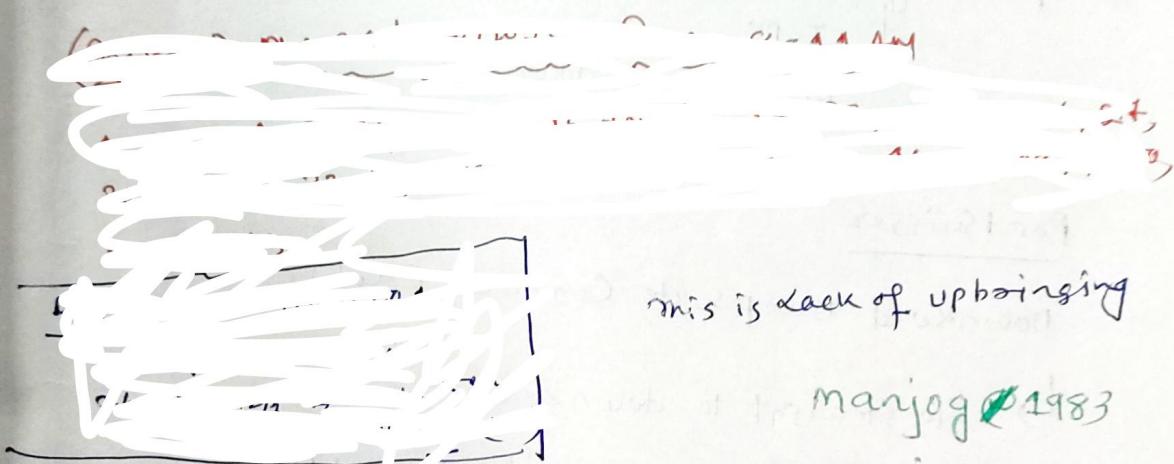
Download

127.0.0.1 (IP address of localhost)

online - clipboard.onlinelinkedfile-online/

what is Brute Force attack ? with example

programming



this is lack of upboising

manjog 1983

manjog 1983

Burp Suite (BS) - is a

popular penetration testing tool used for security testing of web applications.

→ It provides various tools to intercept, analyze, modify, and automate HTTP/1.1 requests.

→ It is widely used by security researchers, ethical hackers and

Cybersecurity professionals for finding & exploiting vulnerabilities in web applicati.

→ Finding vulnerabilities (search) and exploiting them (destroy)

XSS: inject <script> alert(); </script>  
in input fields and observe the responses.

IDOR (Insecure Direct Object References):

Modify user ID parameters and check for unauthorized access.

Burp Suite Download and install

→ open Any web Browser Activation  
↓ Type  
Burp Suite download

PortSwigger

Downloaded Burp Suite Community Edition

- ↳ Go straight to downloads
- ↳ Professional / community 2023.11.1.3

Burp Suite Community Edition

Linux (x64)

Download

299 mb

Open The Terminal

ls

↳ burpsuite-community-Linux-V2023-11-1-3.sh

To check the permission of the file

chmod +x ↴ (same file)

Now install it ↴ (file name Again)  
sudo ./ ↴

Ask for the password (Type the password)

Starting installer

you will set

Welcome to the Burp Suite  
Community Edition setup wizard

click next

Select destination directory

Get the default location

click next

next

127.0.0.1:3000/F/

Next

Finish

close the terminal

↳ go to start > search (Burp Suite)  
(orange color)

Accept

↳ Temporary Project ↳ Next

↳

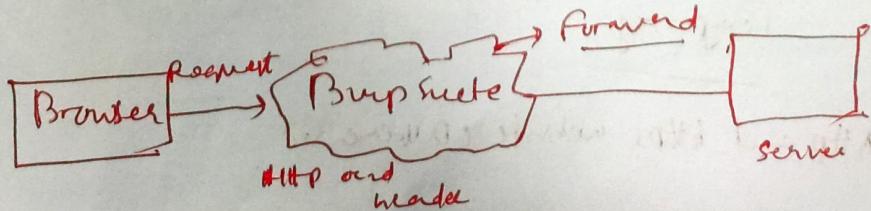
① use Burp defaults

↳ Start Burp

without wasting so much time.

I am excited, so let's get started.

Burp Suite: proxy tool (sit in the middle  
between Browser & Server)



Limit  
Forwarded Headers  
[ ]  
↓  
250000

Interception [ ] to catch packets

If it's OFF,  
you can't catch or see any data

Ports misconfiguration

Proxy setting

127.0.0.1:8080  
↳  
localhost

Domain Name  $\Rightarrow$  DNS  $\rightarrow$  Converts to IP Address

http://8880  $\hookrightarrow$  port (Listener)

Browser  $\hookrightarrow$  setting  $\hookrightarrow$  proxy

Manual proxy configuration

HTTP Proxy [ 127.0.0.1 ]  
↓  
localhost (DNS) (OK)  
[ 8880 ]  
port

testphp.vulnweb.com/

Proxy proxy

HTTP and HTTPS website (Differences)

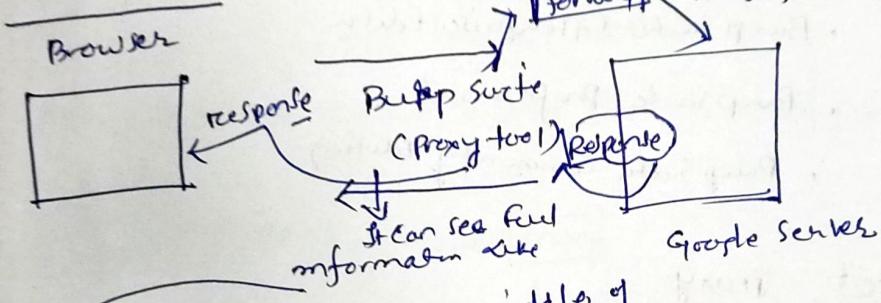
# Proxy

Pre requisites

Full course in a single go

- 1. System
- 2. How website works
- 3. HTTP (about) How it works
- 4. Request, Response, Headers.

Burp Suite



It sits in the middle of  
Browser and server

HTTP request  
what headers (All u can see)

password limit (25 characters) from browser

↳ from  
250000 (change or alter request)

↳ I can send to the web server

↳ Also Burp Suite can check how  
server responds to my  
request (that's what my job)

if not backend

Validation

reset

not High End CPU

(Long Password Vulnerability)

## Interception

↳ ON (to capture the request)  
 ↳ If u will make it OFF  
 ↳ whether u will forward it or not  
 ↳ response  
 ↳ request will go through (Burp Suite)  
 But u can't see  
 ⇒ All will come in Burp Suite history.

## Set up Burp Suite in ur Browser

- Burp Suite Enterprise Edition
- Burp Suite Professional
- Burp Suite Community Edition

### Target      Proxy

#### Setup Proxy

Scope      Issue definitions

#### Proxy

forward     drop     Intercept     Action     open browser

HTTP history → (what has been already viewed)

#### Proxy Setup

#### Proxy setting

Running

↳ ① Proxy listeners

↳ Interface

↓ 127.0.0.1:8080

(Ip add<sup>n</sup> of localhost)

google.com      }  
 facebook.com      } Domain Name (DN)  
 ↳ every (DN) has a IP address  
 ↳ 91.11.181.1

\* DNS (Converts domain name into IP address)

| Ping google.com | IPV4 and IPV6

127.0.0.1: 8080  
 ↳ Port Number (Listen)

(To differentiate various services, port no's are given)

Browser ↳ settings ↳ search proxy  
 ↳ Settings

• Manual proxy configuration

127.0.0.1      Port [8080]

Next (Go to Burp Suite)  
 To capture my request / packet  
 ↳ Intercept is on

OK

Go  
Browsers

testphp.vulnweb.com

GET / HTTP/1.1

FoxyProxy

↳ version

Host

User-Agent

then **Forward**

## Alternate way to setup proxy / delete

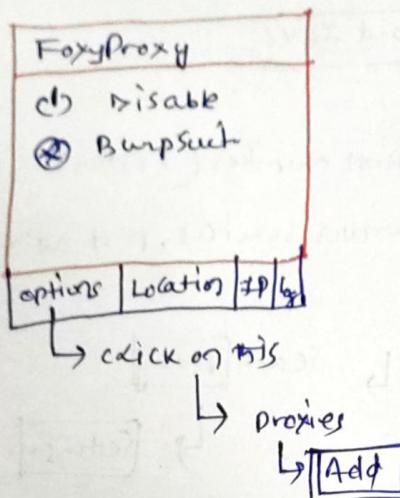
↳ (only simple click)

proxy

Browser name

Foxyproxy Firefox

FoxyProxy Standard - Get this Extension for



Title

**BumpSue**

Host Name

**127.0.0.1**

Type

**HTTP**

Port

**8080**

Save

Print to toolbox

To work with HTTPS website

(BumpSue)

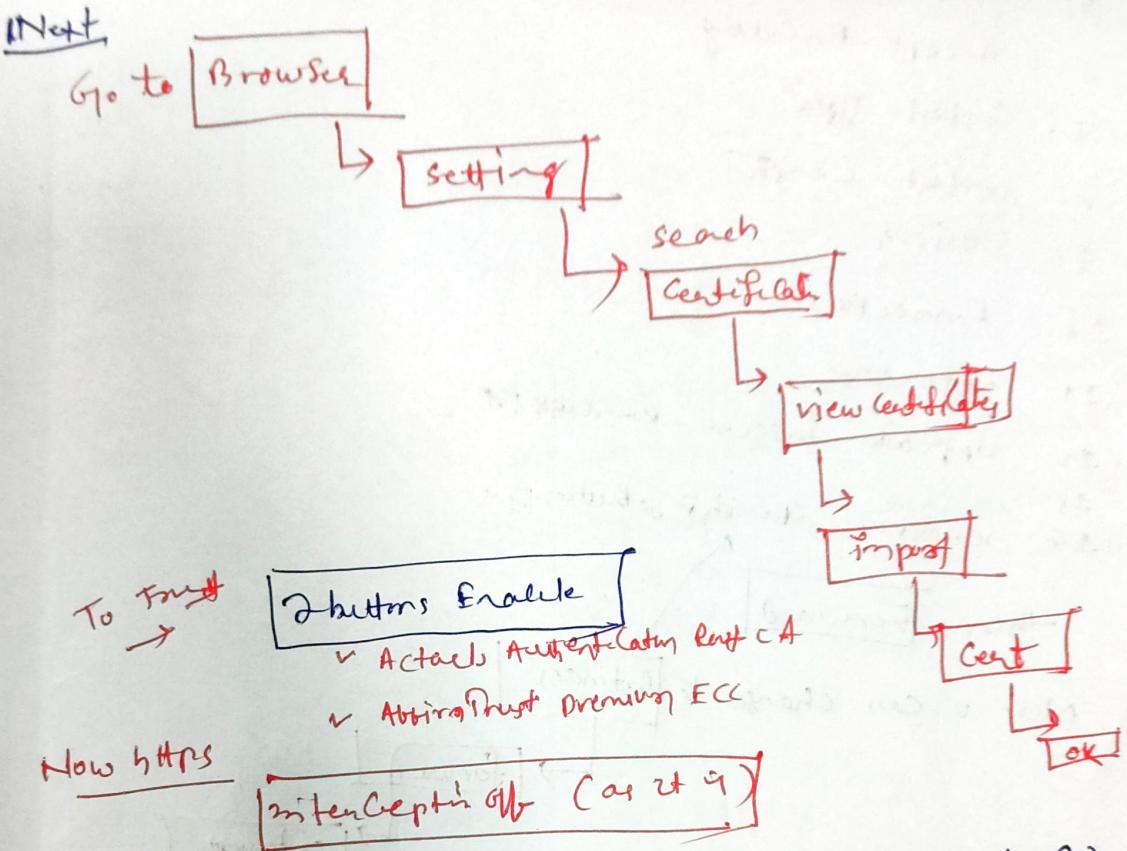
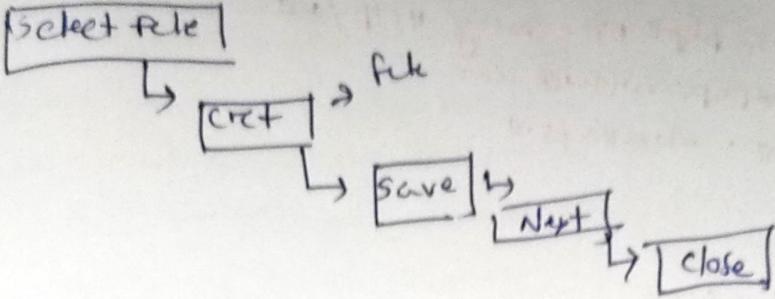
Proxy Settings

Import / export CA certificate

Export

○ Certificate in DER format

**Next**



Go to `testphp.vulnweb.com`

Search Art

**Tarish** **go** ↴ searched for: tarish

Make

**interception**

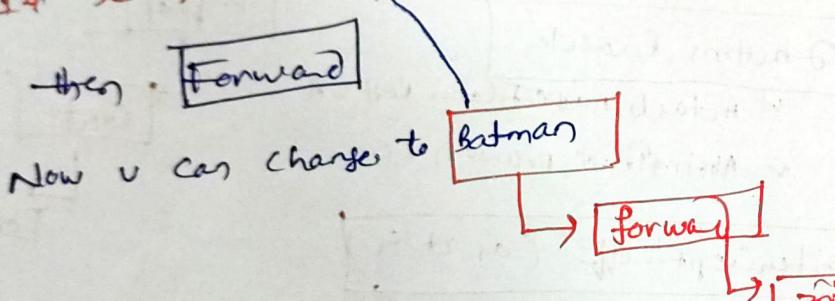
and again go to

Search art

**Tarish** **go**

Now u can see what requests are coming ?

1. POST /search.php?test=query HTTP/1.1
2. Host: testphp.vulnweb.com
3. User-Agent: Mozilla/5.0
4. Accept:
5. Accept-Language
6. Accept-Encoding
7. Content-Type
8. Content-Length
9. Origin
10. Connection
11. Referer
12. Upgrade-Insecure-Requests: 1
13. searchfor=tanish&goButton=Go
14. searchfor=batman&goButton=Go

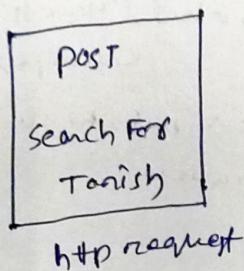


Now you can alter or change  
the request from  
the browser

Note: In Burp Suite, the Intercept feature is used  
to capture and modify HTTP requests before  
they are sent to the server. However, in each  
transaction, Intercept may be turned off for the  
following reasons:

## Repeater

- \* Burp Suite Repeater is a tool that allows you to manually modify and resend <sup>HTTP</sup> requests to test how the server responds.
- ⇒ It is useful for testing vulnerabilities, debugging requests, and analyzing server behavior.



## Cross-Site Scripting (XSS) Vulnerabilities

(XSS) is a type of web security vulnerability that allows an attacker to inject malicious scripts into web pages viewed by other users. This can lead to data theft, session hijacking, defacement, and more.

### Types of XSS

#### 1. Stored XSS (Persistent XSS)

- The malicious script is permanently stored on the target server (e.g.: in a database, msg board, or comment section)
- Impact: Every time a user visits the affected page, the script executes in the browser.

#### Example

```
<script> alert('Hacked'); </script>
```

## 2. Reflected XSS (Non-Persistent XSS):

- The malicious script is not stored on the server but is reflected from a web request (e.g., a search bar or URL parameter)
- The attacker tricks the user into clicking a malicious link containing the script.

### Example:

`https://example.com/search?q=<script>alert('Hacked!');</script>`

\* If the application does not properly validate input, the script will execute on the victim's browser.

## Password Attack Using xHydrea in Kali Linux

- xHydrea is the GUI version of Hydra, a powerful password cracking tool.
- It is used for brute-force password attacks on various protocols like SSH, FTP, HTTP and more.
- Helps in penetration testing to identify weak passwords.

Slide 2: This guide is for educational purposes only.

- Unauthorized access to systems is illegal.
- Always perform penetration testing with permission.

Slide 3:

Steps:

1. open Kali Linux
2. open a terminal and type:  
xhydrea
3. press enter to launch the GUI.

Slide 4: Selecting the Target

Steps:

1. Go to the "Target" tab
2. Enter the IP address of the target machine
3. choose the protocol to attack (e.g; SSH, FTP, HTTP, etc)

Slide 5: Configuring Username and Password Options

Steps:

1. Go to the "password" tab
2. Choose how to test Credentials
  - Single username → Enter manually.
  - Username list → Load a list of usernames (username.txt)
  - Single password → Enter manually
  - Password list → Load a dictionary file (Crackyou.txt)

## Slide 6 : Setting Attack Parameters

Steps :

1. Go to the "Tuning" tab
2. Set the number of threads (higher = faster attack, but can overload the target).
3. Configure timing options to adjust the delay between attempts.

## Slide 7 : Launching the Attack

Steps :

1. Click the "start" button.
2. xHydra begins brute-forcing the credentials.
3. If successful, valid login details will be displayed.

## Slide 8 : Analyzing results

### Slide 9: Protecting Against xHydra Attacks

- Use strong passwords (Complex, long and random)
- Enable Account Lockout (After multiple failed attempts)
- Use Multi-factor Authentication (MFA)
- Restrict Login Attempts with security policies and firewalls.