PSP0201 Week 2 Writeup

Group Name: ikun no 1

Members

ID	Name	Role
1211102058	Chu Liang Chern	Leader
1211101401	Chong Jii Hong	Member
1211103206	Ng Kai Keat	Member
1211103095	Siddiq Ferhad Bin Khairil Anual	Member

Day 1: Web Exploitation – A Christmas Crisis

Tool used: Kali-Linux, Firefox

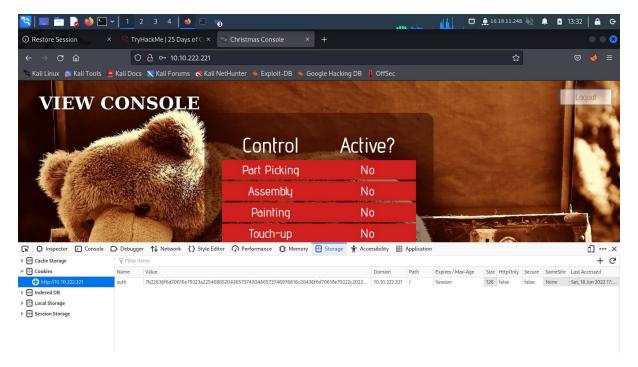
Solution/walkthrough:

Question 1



Register using own username and password. After login in, view the page source and the title is between the title tag.

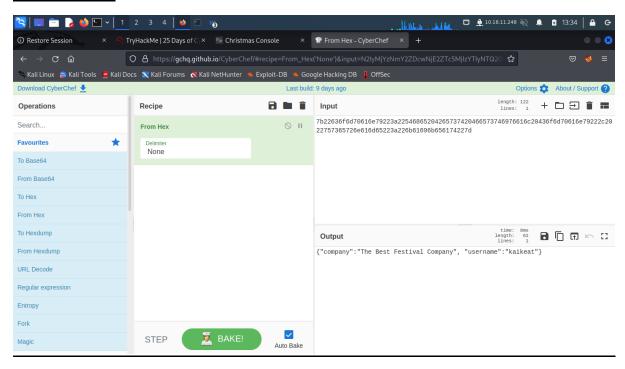
Question 2, 3



Open developer tool in storage and check the cookie name under cookie. The name is shown which is auth.

Observe and identify the pattern of the value, and it is hexadecimal.

Question 4, 5, 6

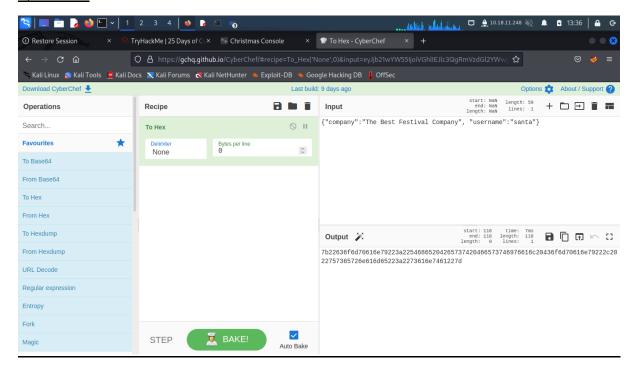


Copy the value from the developer tools just now and translate the value form hexadecimal to string in CyberChef. Then, observe and examine the orientation and pattern of it and it is JSON format.

After bake the value, the company is field is shown.

After bake the value, the username is shown, so username is the answer.

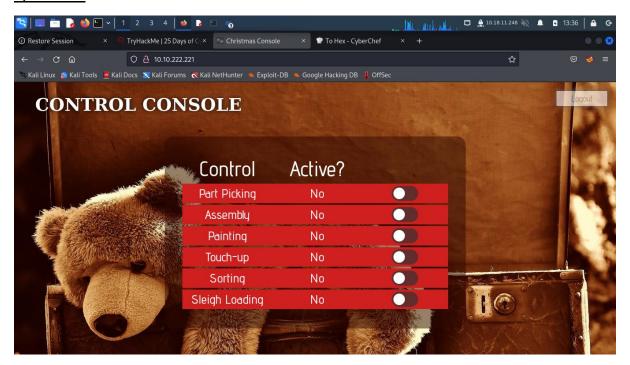
Question 7



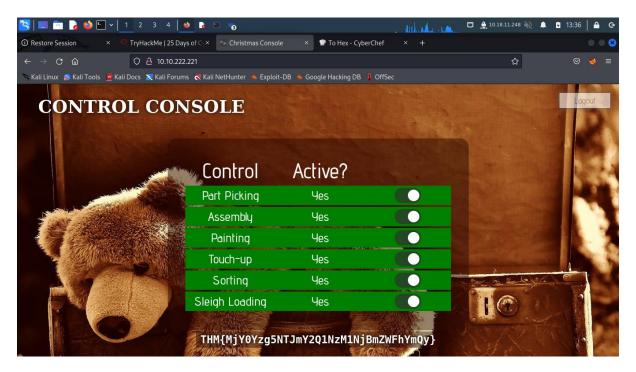
Change our username into santa and copy it. Then, convert it from string into hexadecimal.

After that, the santa cookies is shown.

Question 8



Copy the santa cookies and replace the original value and refresh the tab. Then, the active button is shown.



After push all the button the flag is shown.

Day 2: Web Exploitation - The Elf Strikes Back!

Tool used: Kali-Linux, Firefox

Solution/walkthrough:

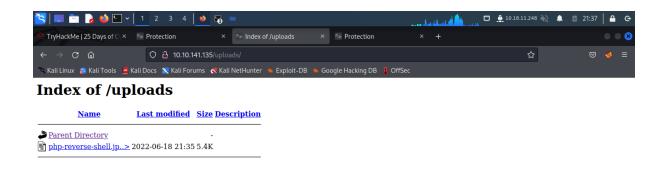
Question 1



Add given id - ODIzODI5MTNiYmYw into (ip address)?id=xxx

Question 2

View the page source, there are three types only can be accepted which is jpeg, jpg and png. Thus, it only can accept image.



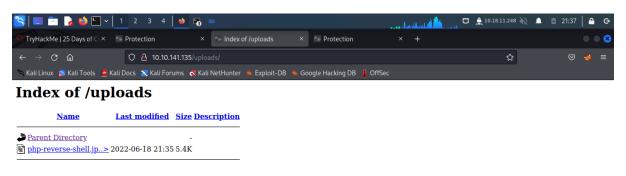
On the URL, enter the common directories such as resources, uploads, images and so on. Then, <ip address>/uploads works.

	T. Control of the con
-k	At the end of a connection, Netcat waits for a new connection (only possible with GNU Netcat and only in combination with "-I")
-I (listen mode)	Listen and server mode for incoming connection requests (via port indicated)
-L Listen harder	Netcat also continues to operate in listen mode after client-side connection terminations (consistently with the same parameters; only supported by the Windows version)
-n (numeric only)	Only IP numbers, no DNS names
-o (file)	A hex dump is carried out for the data traffic (content of files represented in a hexadecimal view); used for fault finding (debugging network applications); recording/sniffing communication is possible (for outgoing and incoming packages)
-p (port)	Enters the local source port that Netcat should use for outgoing connections
-r	Use of random port values when scanning (for local and remote ports)
-s (address)	Defines the local source address (IP address or name)
-t	Telnet mode (enables server contact via Telnet); requires a special compilation of Netcat, otherwise the option is not available.
-u	Use of UDP mode (instead of TCP)
-U (gateway)	Netcat uses Unix domain sockets (GNU Netcat)
-v	Extensive output (e.g. responsible for the display and scope of displayed fault messages)

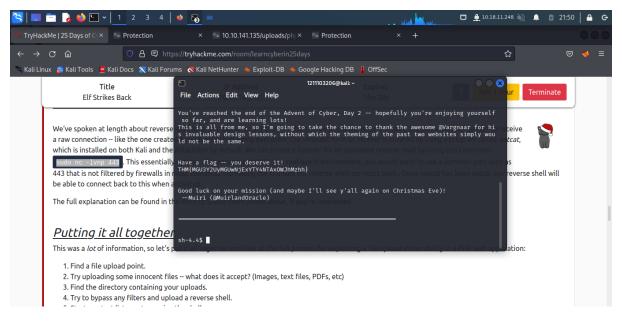
Research it and find the answer.

```
// Canal Complete the process of the
```

Download the reverse shell and change the ip address into self ip iddress and change the port into 443. After that, change the name of the reverse shell to <php-reverse-shell.jpg.php>.



Then, upload into the website.



Lastly, type [sudo nc -lvnp 443] into panel and wait for it.

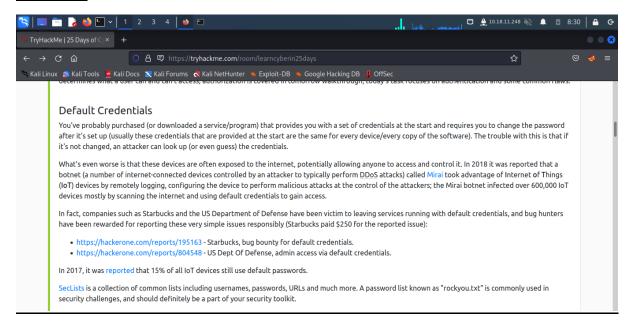
Then, the flag is shown.

Day 3: Web Exploitation Christmas Chaos

Tool used: Kali-Linux, Firefox

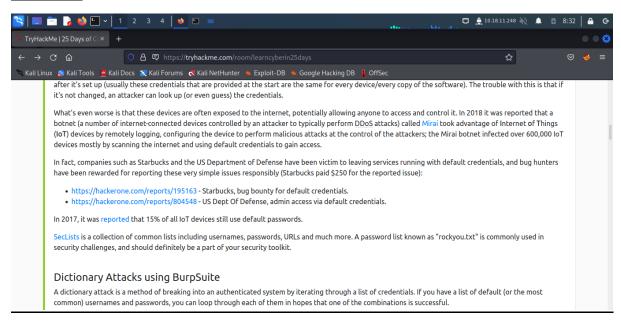
Solution/walkthrough:

Question 1

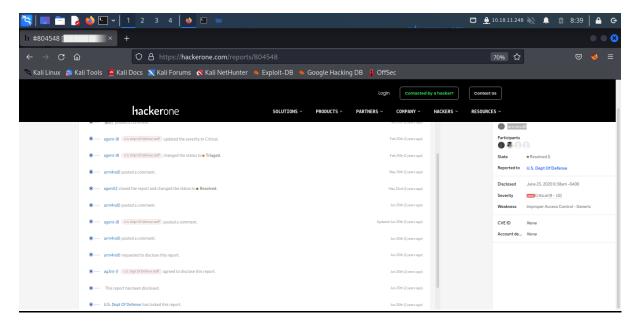


Read the text and find the answer from the tryhackme text.

Question 2

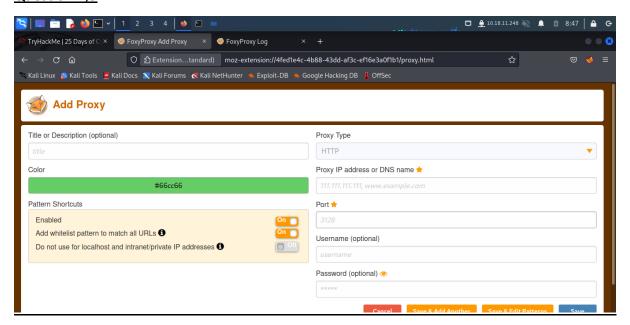


Read the text and find the answer from the tryhackme text.

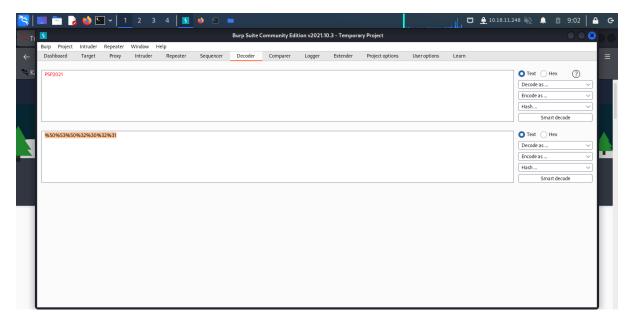


Read the report and find the answer.

Question 4,5



Open FoxyProxy Option and edit proxy. Then, the answer is shown.



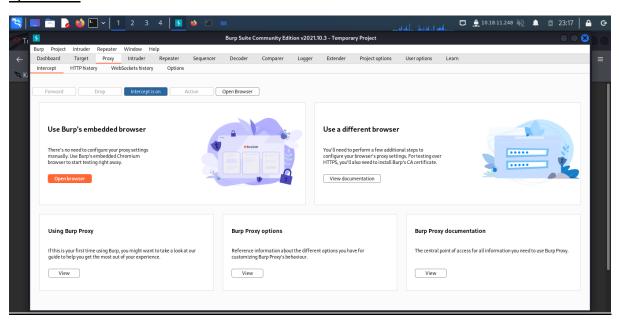
Open burp suite and press the decoder and type PSP0201 to encode the answer.

Question 7

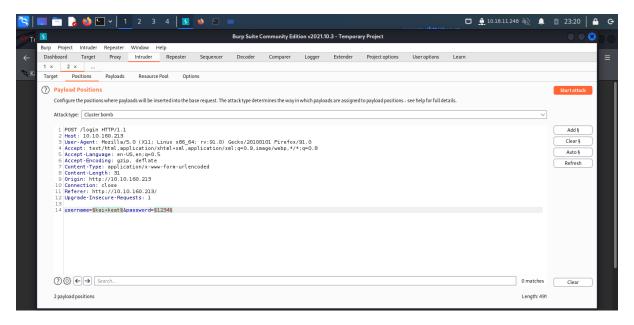
Cluster bomb – This uses multiple payload sets. There is a different payload set for each defined position (up to a maximum of 20). The attack iterates through each payload set in turn, so that all permutations of payload combinations are tested.

Research and find the answer.

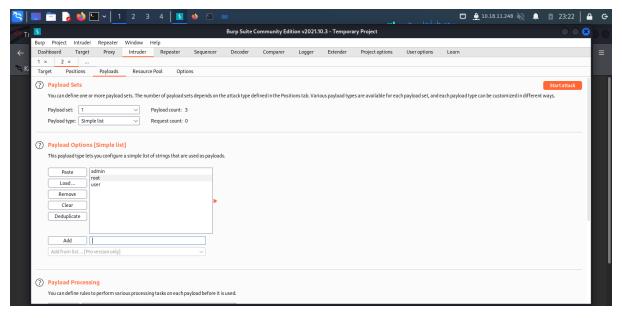
Question 8



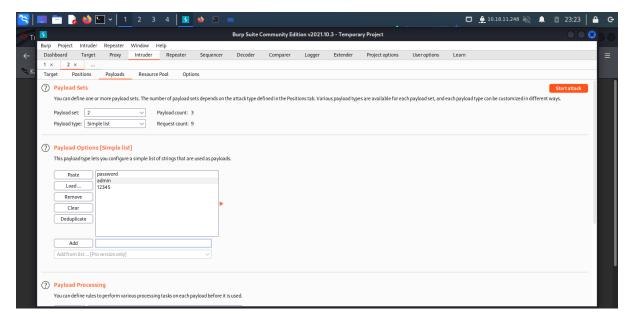
First, open burp suite and turn on intercept. Then, random put an input. Burp suite will send a request.



Next, send the request to intruder. Then, click into the position and select "Cluster Bomb" in the Attack type dropdown menu.

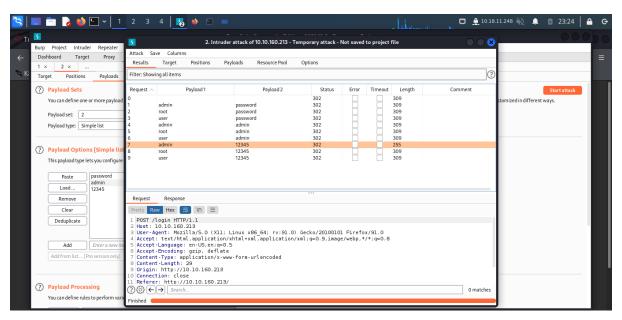


After that, click the "Payloads" tab, select Payload set 1 and at payload options, add a few common default usernames such as "admin", "root" and "user".

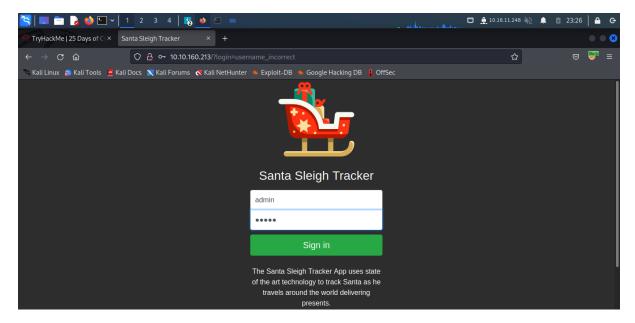


For set 2, add a few common default passwords such as "password", "admin" and "12345".

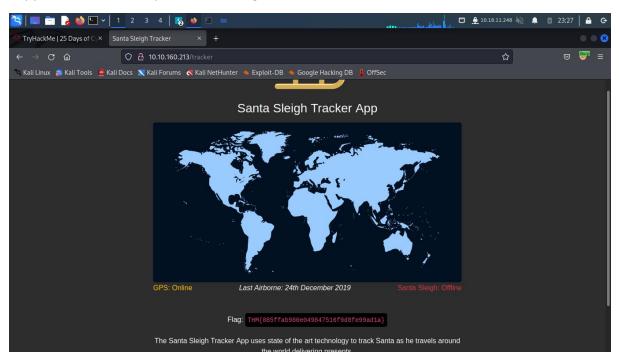
Then, click the start attack button.



The different pattern in shown.



Copy the username and password and log in it.



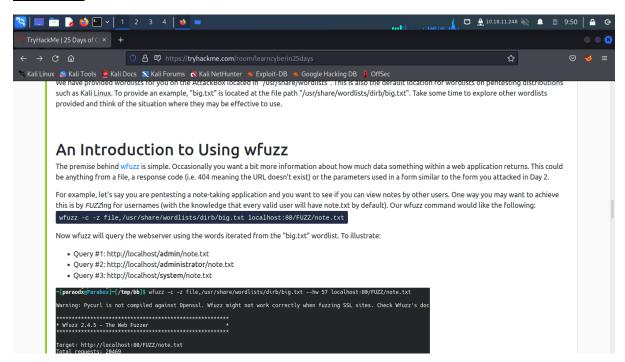
The flag is shown.

Day 4: Web Exploitation – A Christmas Crisis

Tool used: Kali-Linux, Gobuster

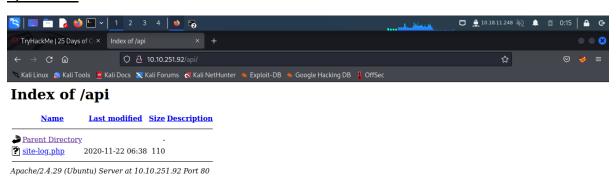
Solution/walkthrough:

Question 1



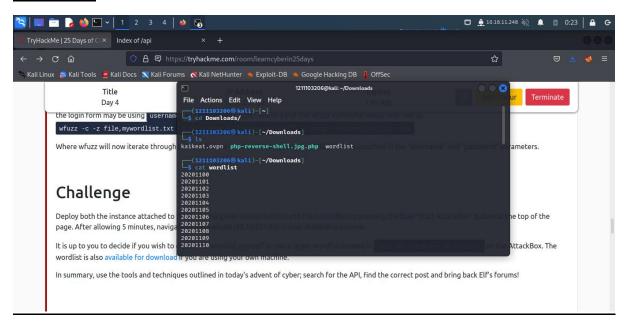
Study the answer in tryhackme and find the answer.

Question 2

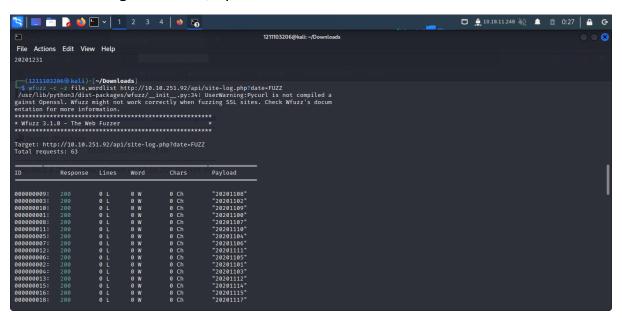


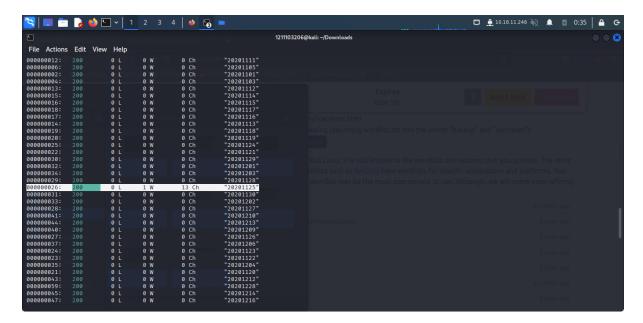
Use gobuster in panel and type in the format of "gobuster dir -u http://example.com -w wordlist.txt". Then, change the URL with the with the format <ip address>/api. The file is shown.

Question 3



To access the file of the site-log.php, we need to find the date of it. Download the file that is given. Then, open the wordlist.





To specify it, use wfuzz -c -z file, wordlist to get more information about it.

Then, a different pattern of date is shown.



Copy the date and put into the format of<ip address>/api/site-log.php?date=xxx

After that, the flag is shown

FUZZ, ..., FUZnZ wherever you put these keywords wfuzz will replace them with the val FUZZ{baseline_value} FUZZ will be replaced by baseline_value. It will be the first req ns: -h/--help : This help --help : Advanced help --filter-help : Filter language specification --version : Wfuzz version details -e <type> : List of available encoders/payloads/iterators/printers/scr: : Reads options from a recipe. Repeat for various recipes. --recipe <filename> --recipe <filename> : Reads options from a recipe. Repeat --dump-recipe <filename> : Prints current options as a recipe --oF <filename> : Saves fuzz results to a file. These can be consumed later (: Output with colors -c : Verbose information. -f filename,printer : Store results in the output file using the specified print -o printer : Show results using the specified printer. --interact : (beta) If selected, all key presses are captured. This allow : Print the results of applying the requests without actually --dry-run : Print the previous HTTP requests (only when using payloads --prev : Show the specified language expression together with the co --efield <expr> --field <expr> : Do not show the payload but only the specified language ex

Research and find the answer.

Day 5: Web Exploitation Someone stole Santa's gift list!

Tool used: Kali-Linux, Firefox

Solution/walkthrough:

Question 1

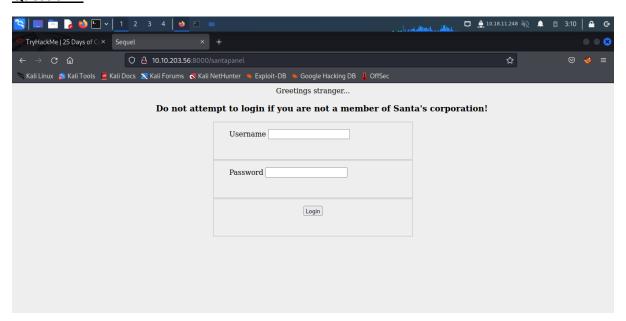
port 1433

If enabled, the default instance of the SQL Server Database Engine listens on **TCP port 1433**. Named instances of the Database Engine and SQL Server Compact are configured for dynamic ports.

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Research and find the answer.

Question 2

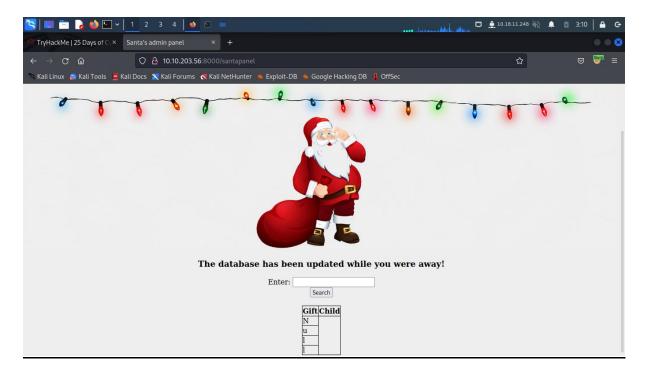


Random guessing.

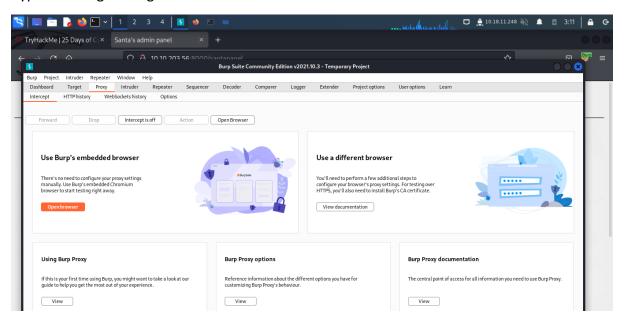
Question 3

Santa TODO: Look at alternative database systems that are than sqlite.

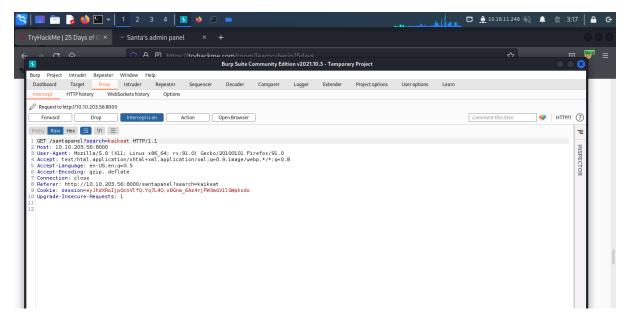
Question 4, 5, 6, 7, 8



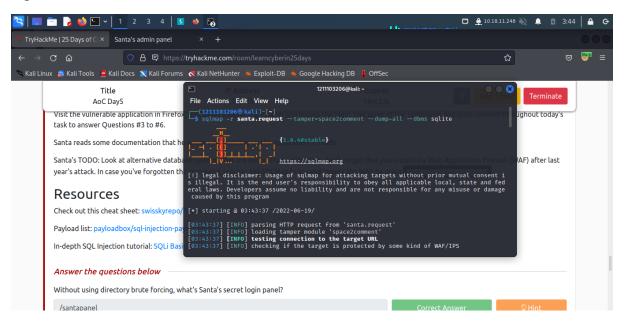
Bypass the login using SQLI.



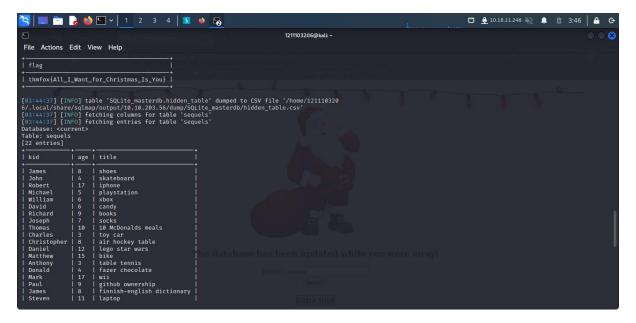
After login, active the foxyproxy and open burp suite. Then, put an input for it. The burp suite will send a request.



Right click and save item.



The saved item is named santa.request.



- 4) 22 entries
- 5) James' age = 8
- 6)Paul ask for github ownership
- 7)The flag is shown. thmfox{All_I_Want_for_Christmas_Is_You}
- 8) admin password = EhCNSWzzFP6sc7gB