

PSP0201

Week 2

Writeup

Group Name: Undecided

Members

ID	Name	Role
1211101390	Aslamia Najwa Binti Ahmad Khadri	Leader
1211100431	Mohammad Omar Torofder	Member
1211103388	Vishnu Karmegam	Member
1211103092	Farryn Aisha Binti Muhd Firdaus	Member

Day 3: Web Exploitation – Christmas Chaos

Tools used: AttackBox, Firefox, Burp Suite

Solution/walkthrough:

Question 1

Find the name under the Default Credentials and copy it.

Default Credentials

You've probably purchased (or downloaded a service/program) that provides you with a set of credentials at the start and requires you to change the password after it's set up (usually these credentials that are provided at the start are the same for every device/every copy of the software). The trouble with this is that if it's not changed, an attacker can look up (or even guess) the credentials.

What's even worse is that these devices are often exposed to the internet, potentially allowing anyone to access and control it. In 2018 it was reported that a botnet (a number of internet-connected devices controlled by an attacker to typically perform DDoS attacks) called [Mirai](#) took advantage of Internet of Things (IoT) devices by remotely logging, configuring the device to perform malicious attacks at the control of the attackers; the Mirai botnet infected over 600,000 IoT devices mostly by scanning the internet and using default credentials to gain access.

Question 2

Find the amount (\$) under the Default Credentials and copy it.

In fact, companies such as Starbucks and the US Department of Defense have been victim to leaving services running with default credentials, and bug hunters have been rewarded for reporting these very simple issues responsibly (Starbucks paid \$250 for the reported issue):

Question 3

Find the agent from the given link(<https://hackerone.com/reports/804548>) under the Default Credentials and copy it.

The screenshot shows a report detail page on the hackerone.com website. At the top, there is a navigation bar with links for Login, Contacted by a hacker?, Contact Us, SOLUTIONS, PRODUCTS, PARTNERS, COMPANY, HACKERS, and RESOURCES. The main content area displays a timeline of events for report ID 804548. The events are as follows:

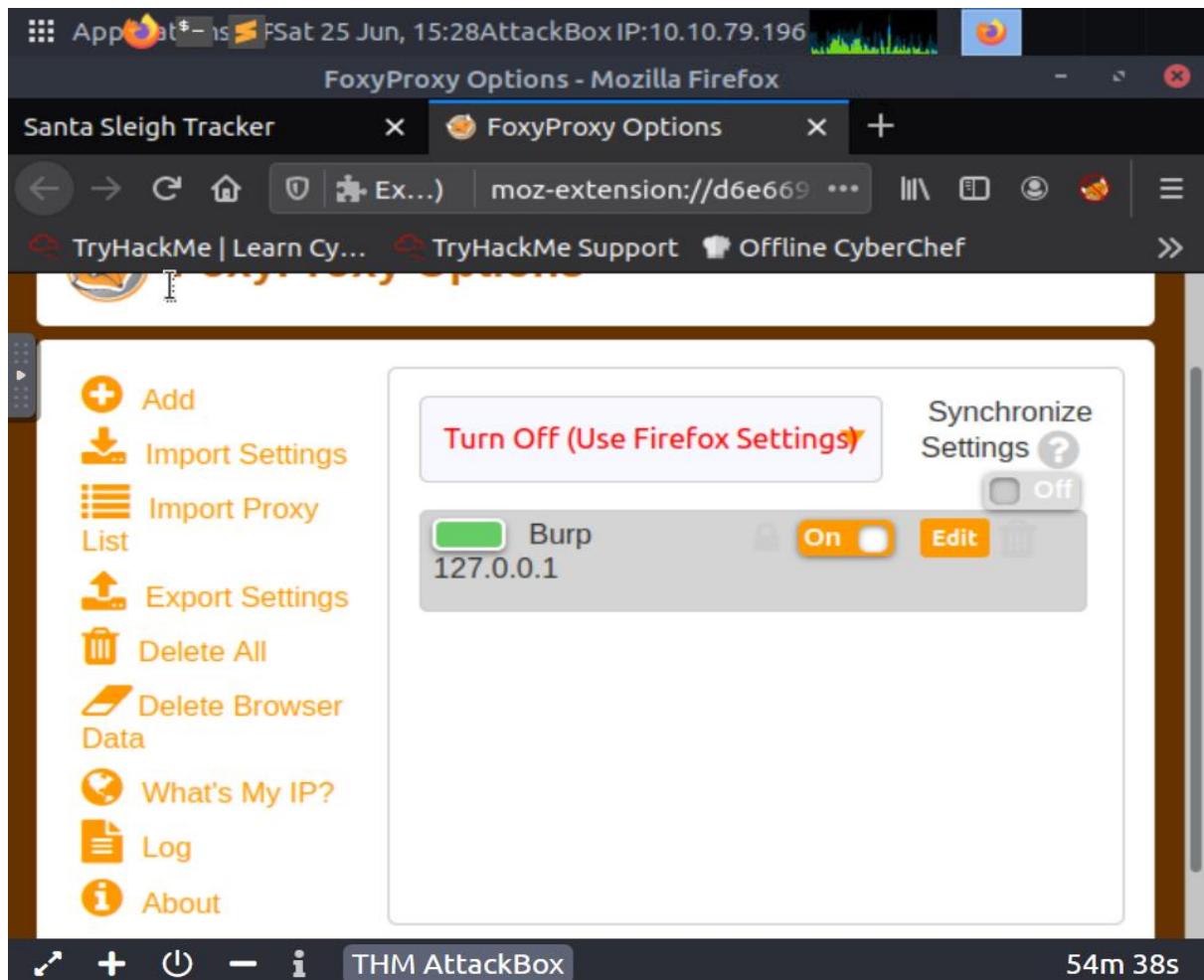
- agent2 closed the report and changed the status to Resolved. (May 22nd (2 years ago))
- arm4ndo posted a comment. (Jun 25th (2 years ago))
- agent-l8 (U.S. Dept Of Defense staff) posted a comment. (Updated Jun 25th (2 years ago))
- arm4ndo posted a comment. (Jun 25th (2 years ago))
- arm4ndo requested to disclose this report. (Jun 25th (2 years ago))
- ag3nt-j1 (U.S. Dept Of Defense staff) agreed to disclose this report. (Jun 25th (2 years ago))
- This report has been disclosed. (Jun 25th (2 years ago))
- U.S. Dept Of Defense has locked this report. (Jun 25th (2 years ago))

To the right of the timeline, there is a sidebar with details about the report:

- Reported February 25, 2020 10:36pm +0800
- arm4ndo
- Participants: [Profile icons]
- State: Resolved ()
- Reported to: U.S. Dept Of Defense
- Disclosed: June 25, 2020 9:38pm +0800
- Severity: Critical (9 ~ 10)
- Weakness: Improper Access Control - Generic

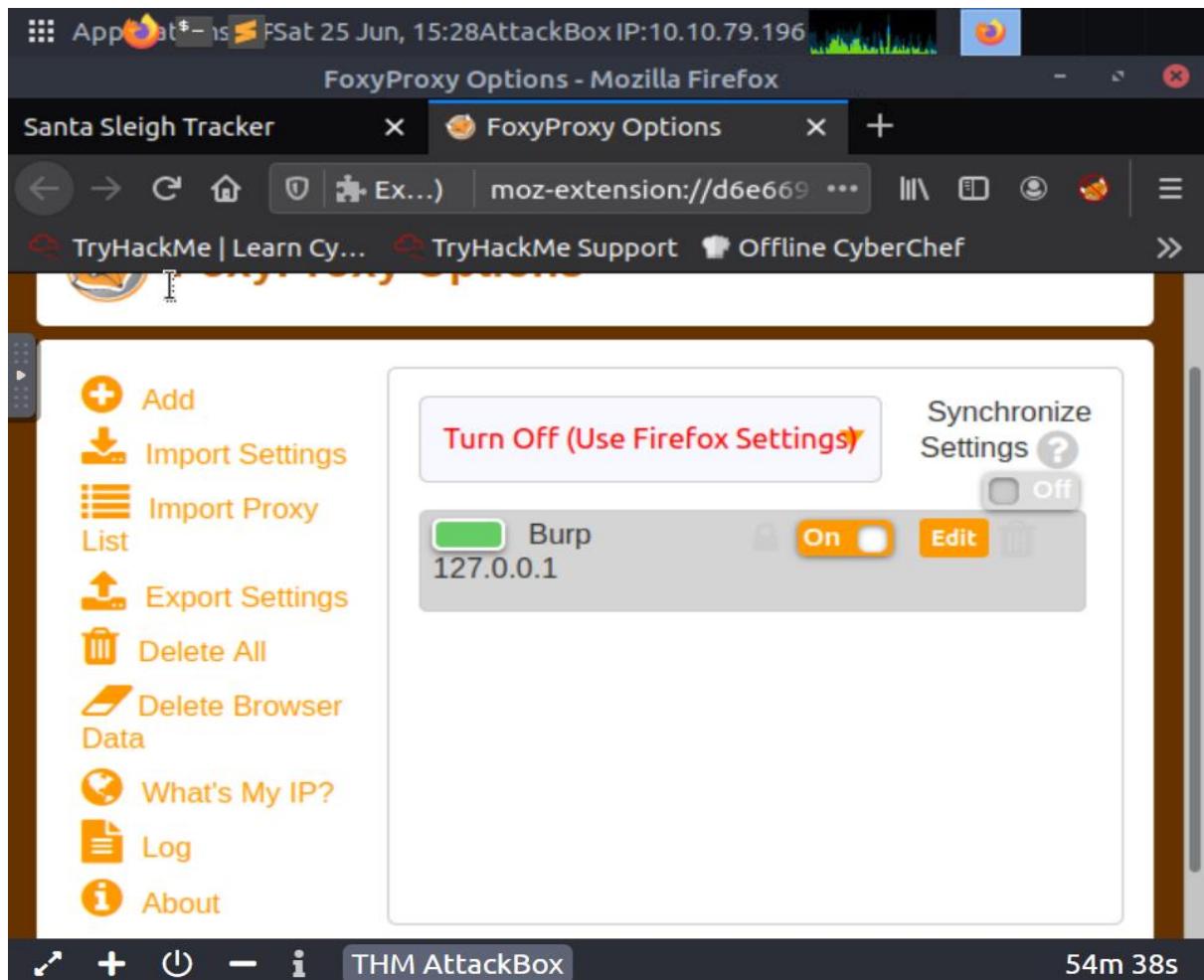
Question 4

Click the icon (FoxyProxy) at the top right corner and click on the options to find the port number for Burp. Then, copy it.

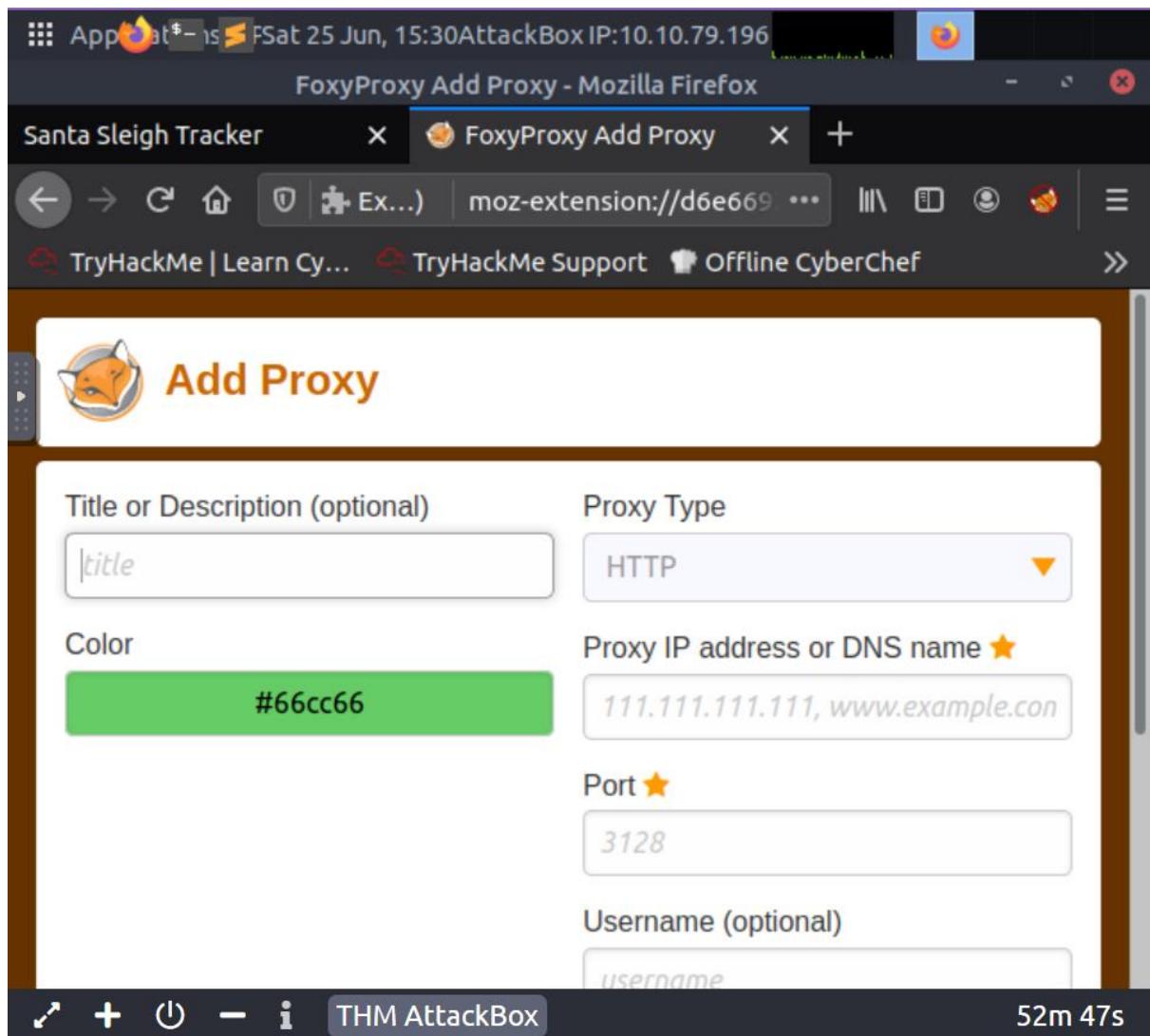


Question 5

Click the add option to access “Add Proxy”.

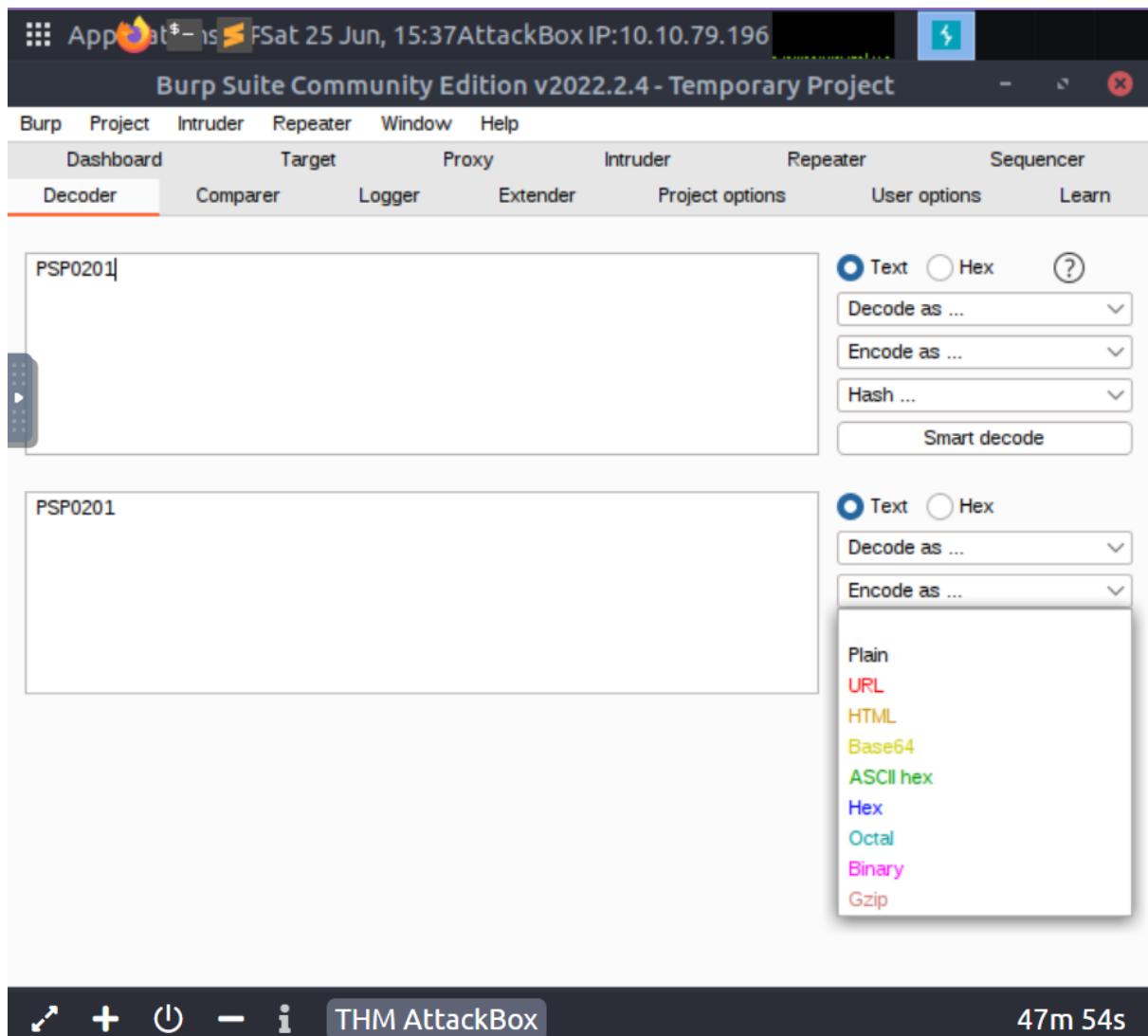


Find the Proxy Type and copy it.

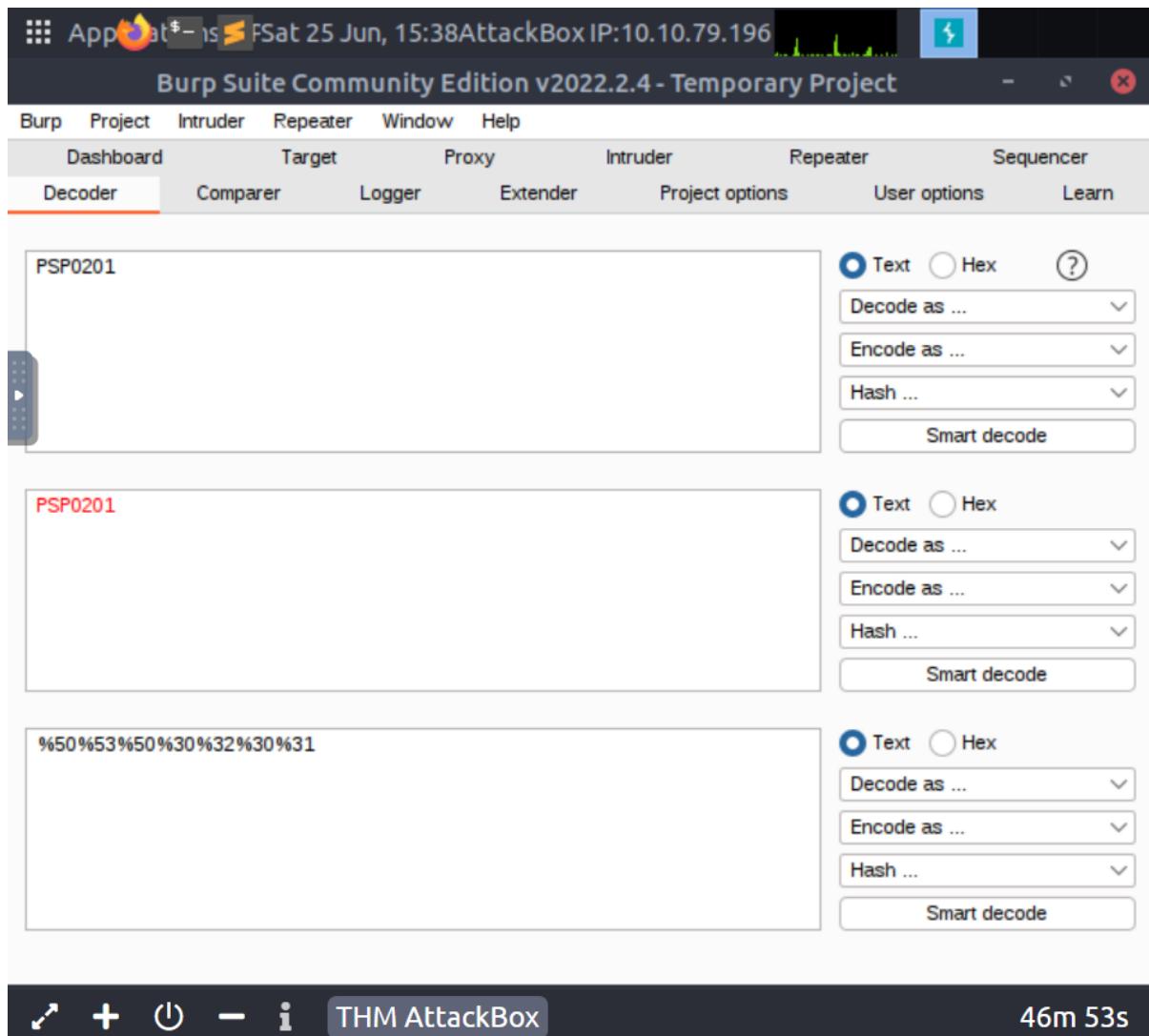


Question 6

Open the BurpSuite Community Edition and click on decoder. Enter 'PSP0201' and choose to encode as URL.



Results would appear and copy it.

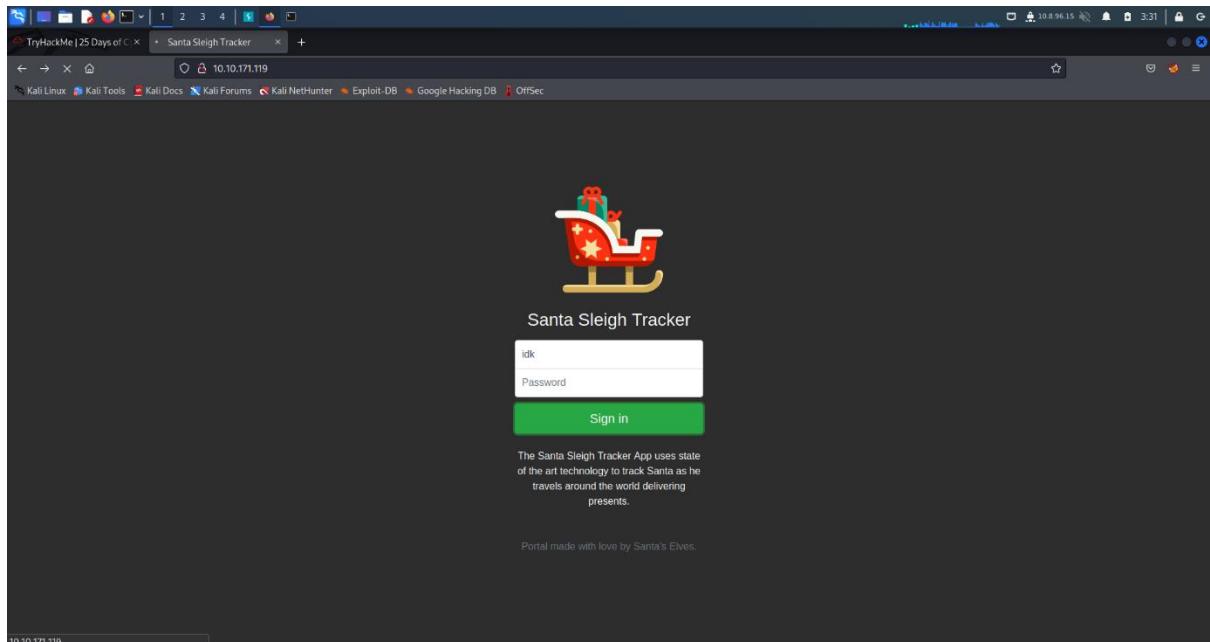


Question 7

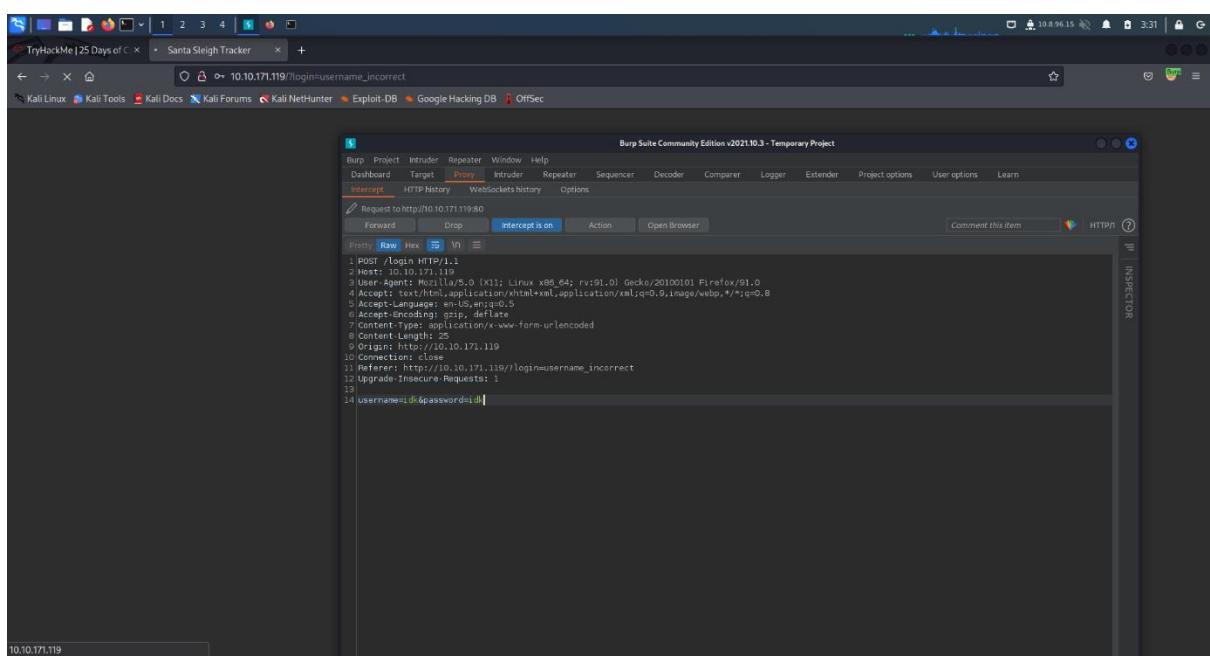
Click on the “Attack type” icon and search for the option that matches the one in the description (Cluster bomb).

Question 8

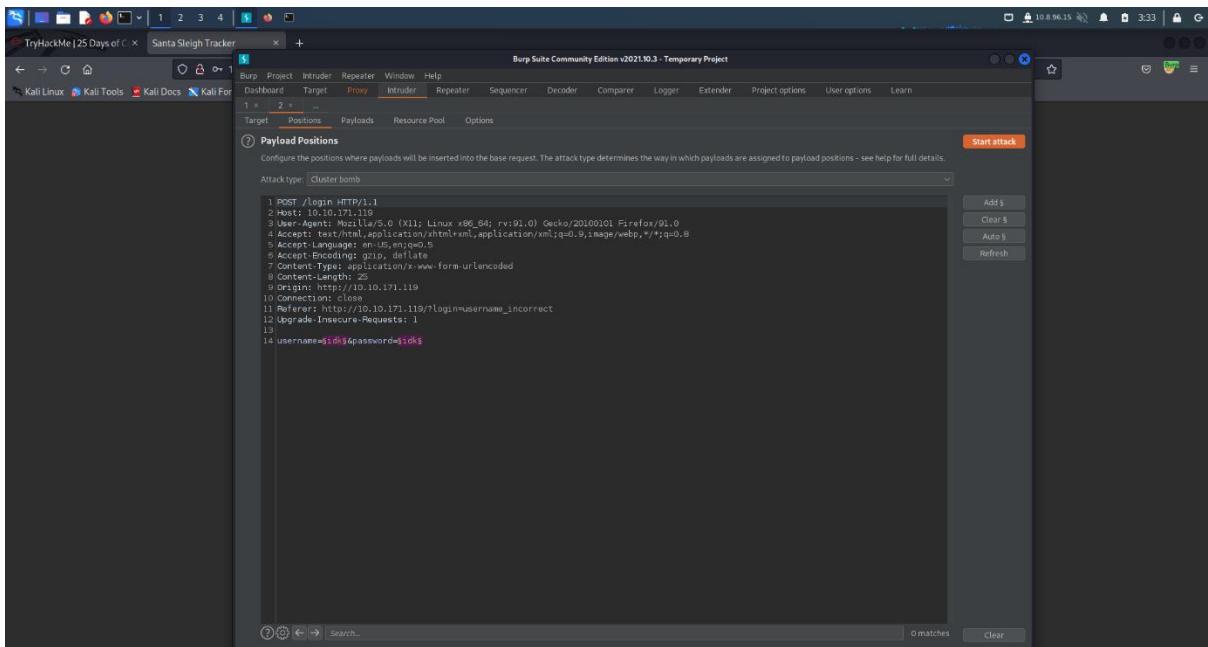
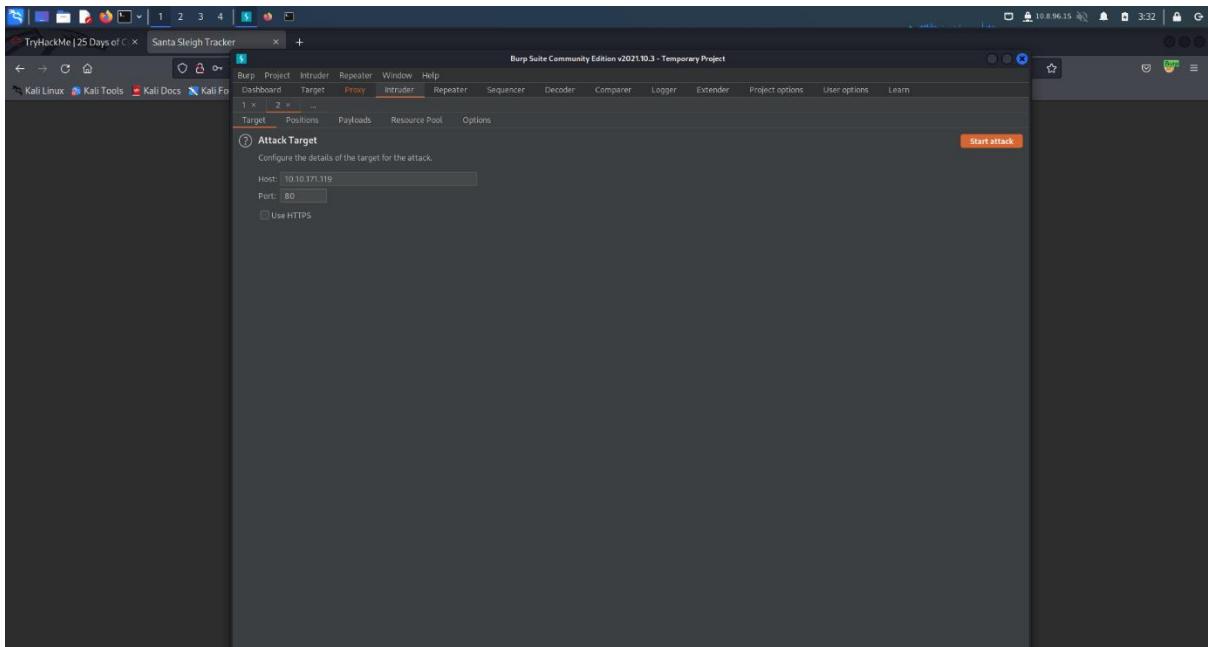
Open the website with the IP address provided. No access to content.



Type in a random username and password. Then refresh the page and get back to BurpSuite to receive a captured request.



Click "Ctrl+I" to send to the intruder.



Click on the “payloads” tab and set to 1 for username. Then, add 3 common defaults which are admin, root and user.

Burp Suite Community Edition v2021.10.3 - Temporary Project

Payload Sets

Payload type: Simple list

Payload Options [Simple list]

Payload Processing

Payload Encoding

Set payload set to 2 for password and add another 3 common defaults which are password, admin and 12345.

Burp Suite Community Edition v2021.10.3 - Temporary Project

Payload Sets

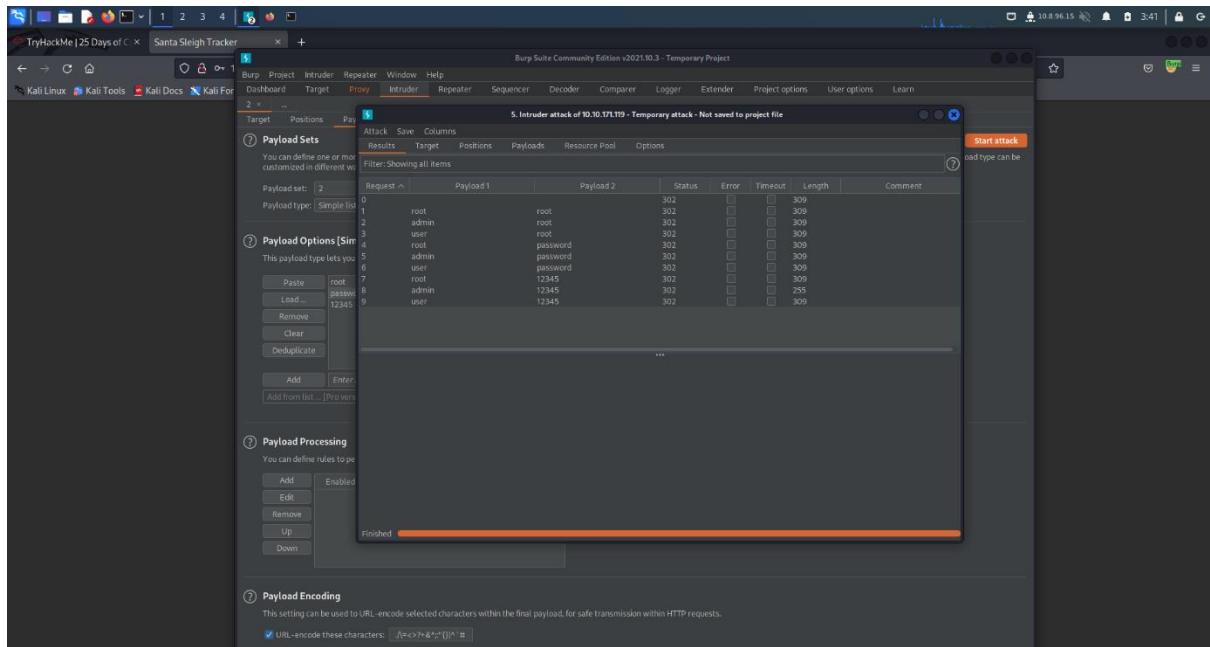
Payload type: Simple list

Payload Options [Simple list]

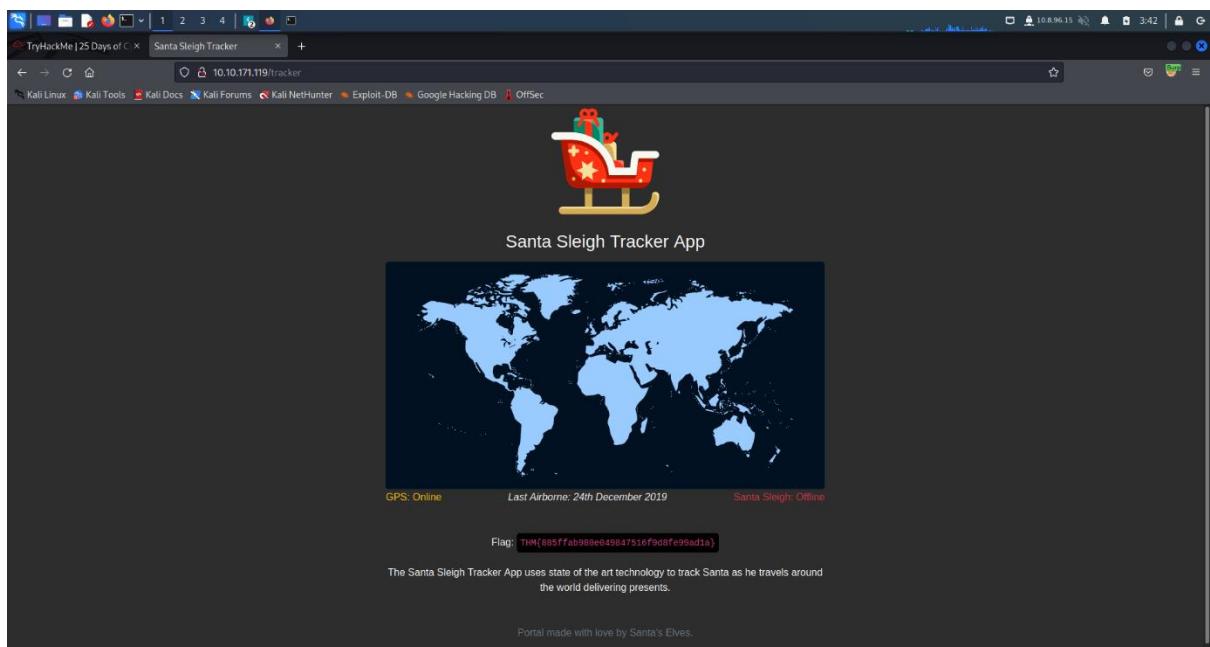
Payload Processing

Payload Encoding

Click "Start attack" to receive results.



Based on the picture shown, the eight request receive different length compared to others so, we went back to the website and insert the username and password from the eight request. We manage to brute force into the website and receive our flag.



Thought Process/Methodology:

Firstly, we read the Default Credentials to receive answers for questions 1 till 3. Next, we needed to find the port number for Burp, thus we had to click on the icon (FoxyProxy) at the top right corner to choose options in which the results would be shown. Then, in order to find the proxy type, we had to click the add option to gain access to “Add Proxy”. We clicked the decoder on the BurpSuite Community Edition to encode the URL for ‘PSP0201’ by typing it in the given space. We then proceeded on open the website by using the IP address provided. Next, we clicked on applications and chose BurpSuite Community under “others”. When BurpSuite has loaded, we turned the intercept on. Once that has been done, we use random username(idk) and password(idk) to log in so

it would show up in the proxy tab as a captured request. We then sent it to the intruder. We cleared the pre-selected positions under the intruder tab. Later, we highlighted the username and password values and clicked add. We then moved on to selecting “Cluster Bomb” for the attack type. Last but not least, we clicked on the “payloads” tab and set it to 1 for username. Then we added 3 common defaults which were admin, root and user. On the other hand, for password, we change payload set to 2 and added another 3 common defaults which were password, admin and 12345. After that, we clicked “Start attack” to receive results. With the results shown, we were able to identify username and password that will give us access into the page. With the credentials, we went back to the webpage and insert the details in order to get access and finally obtained the flag.