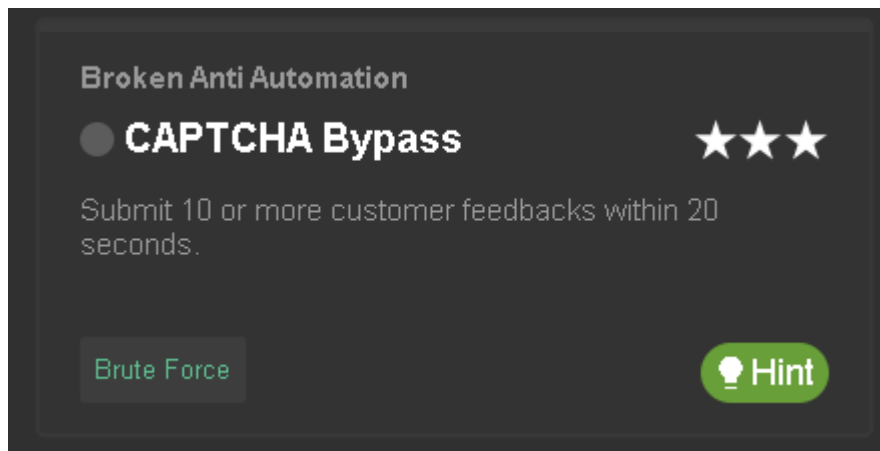


# Broken Anti Automation in OWASP Juice Shop



Here in this task, we need to bypass the captcha authentication mechanism of the owasp juice shop

Going to the section which needs captcha verification

In customer feedback,

A screenshot of the 'Customer Feedback' form. The form has a dark background with white text. It contains the following fields and elements: a text input field for 'Author' with the value '\*\*\*in@juice-sh.op'; a text area for 'Comment \*' with a character count 'Max. 160 characters' and '0/160'; a 'Rating' section with a slider; a CAPTCHA section with the text 'CAPTCHA: What is 6-9+7 ?'; a text input field for 'Result \*'; and a 'Submit' button with a right-pointing arrow icon.

## Customer Feedback

Author  
\*\*\*in@juice-sh.op

Comment \*  
test

Max. 160 characters 4/160

Rating

CAPTCHA: What is 6-9+7 ?

Result \*  
4

Submit

write a feedback and intercept the request using burp suite

The screenshot displays the Burp Suite interface with the 'Proxy' tab selected. The 'Intercept' section shows a list of intercepted requests. The first request is a POST to `http://localhost.com:3000/api/Feedbacks/` at 23:44:00. The second request is a GET to `https://graph.microsoft.com/v1.0/me/drive/root/children?top=100&select=id,name,folder,lastModifiedDate...` at 23:44:10.

The 'Request' tab is selected, showing the raw request data. The request is a POST to `http://localhost.com:3000/api/Feedbacks/` with the following body:

```
{
  "UserId": 1,
  "captchaId": 3,
  "captcha": "4",
  "comment": "test (**in@juice-sh.op)",
  "rating": 5
}
```

The 'Inspector' tab is also visible, showing the request attributes, query parameters, cookies, and headers. The status bar at the bottom indicates 'Memory: 140.6MB'.

It uses a captchaId

Sending the request to the repeater to see the web page response

The screenshot displays the Burp Suite Repeater interface. The top navigation bar includes tabs for Dashboard, Target, Proxy, Intruder, Repeater (selected), Collaborator, and Sequencer. Below this is a sub-navigation bar with Logger, Organizer, Extensions, and Learn. The main window shows a single request in the Repeater tab. The request is a POST to http://lo. The request body is a JSON object with the following fields: "UserId": 1, "captchaId": 3, "captcha": "4", "comment": "test (\*\*in@juice-sh.op)", and "rating": 5. The response is not yet received. The interface also includes a 'Send' button, a 'Cancel' button, and a 'Target' field. The 'Inspector' panel on the right shows the request attributes, query parameters, cookies, and headers. The 'Event log' and 'All issues' panels are at the bottom.

Dashboard Target Proxy Intruder Repeater Collaborator Sequencer

Logger Organizer Extensions Learn

1 x +

Send Cancel < >

Target: http://lo

Request Response

Pretty Raw Hex

```
ZXXNzIiwiZGFOYSI6eyJpZCI6MSwidXNlcm5hbWU0iIiLCJlbWFpbCI6I
mFkbWluQGplaWNlLXNoLm9wIiwicGFzc3dvcmQiOiIwMTkyMDIzYTdiYm
Q3MzIiMDUxNmYwNjlkZjE4YjUwMCIsInJvbGU0iJhZGlpbiIsImRlbHV
4ZVRva2VuIjoiiIiwibGFzdExvZ2luSXAiOiIiLCJwcm9maWxlSWlhZ2Ui
OiJhc3NldHMvZHVibG1jL2ltYWdley9leGxvYWRzL2RlZmFlbHRBZGlpb
i5wbmciLCJOb3RwU2VjemVOIjoiiIiwiaXNBY3RpdmaUiOnRydWUsImNyZW
FOZWRBdCI6IjIwMjU0MDItMTYgMDc6Mjk6MzYuMjI4IiwiaXNBY3RpdmaUi
wZGFOZWRBdCI6IjIwMjU0MDItMTYgMDc6Mjk6MzYuMjI4IiwiaXNBY3RpdmaUi
ImRlbGV0ZWVudCI6bnVsbH0sImRhdCI6MTczOTY5Mjg0Mn0iDiwPNn995
3qdVrewv6Eb6BmxhWbBWVcwRPV9XRECK2hHcXQ0btmYFZEzNbRjB0r2Fa
FsGEQEv5hg27BNah2W7Hgmfe-ioc3ifC0bV0eZeLAyhd8gU2NyyzSx4h
ajG_eg4w2u-TYiSLi9YI17ef0I_OiUFdKDMt30z7XucYP03U;
continueCode=
0YhVt8IkUWHptDeXIyTyFj fNHpI5TaDujjhRLtvzcZWIWnH07urwhY7tB
2IN7F8DtZzcQp f0lSN9t29sKbCrwsPvi9Rc7zCqQuPphW7c0K
13 Connection: keep-alive
14
15 {
  "UserId":1,
  "captchaId":3,
  "captcha": "4",
  "comment": "test (**in@juice-sh.op)",
  "rating":5
}
```

Inspector

Request attributes

Request query param

Request cookies

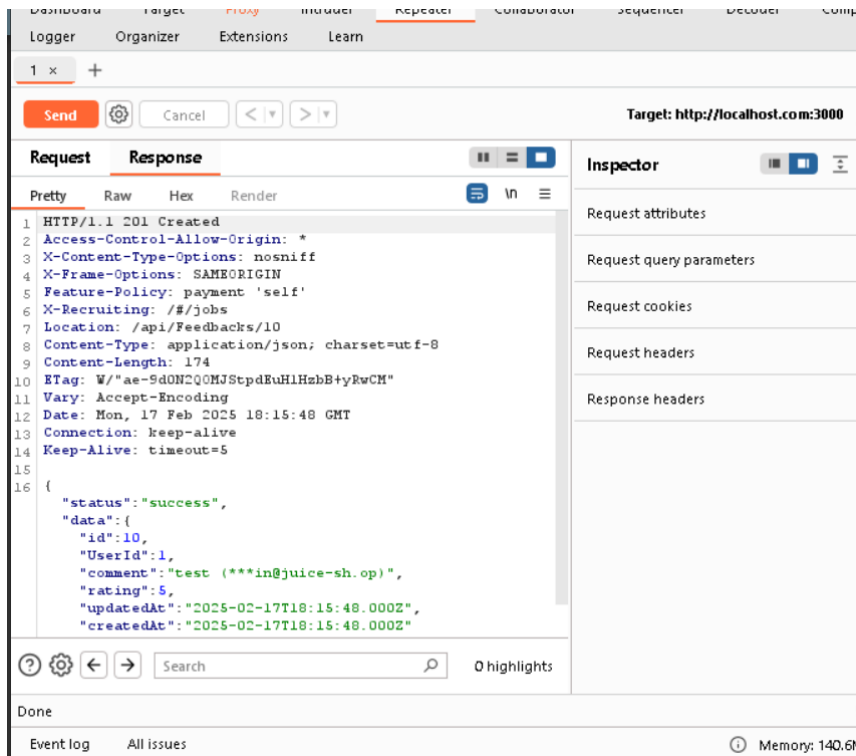
Request headers

0 highlights

Ready

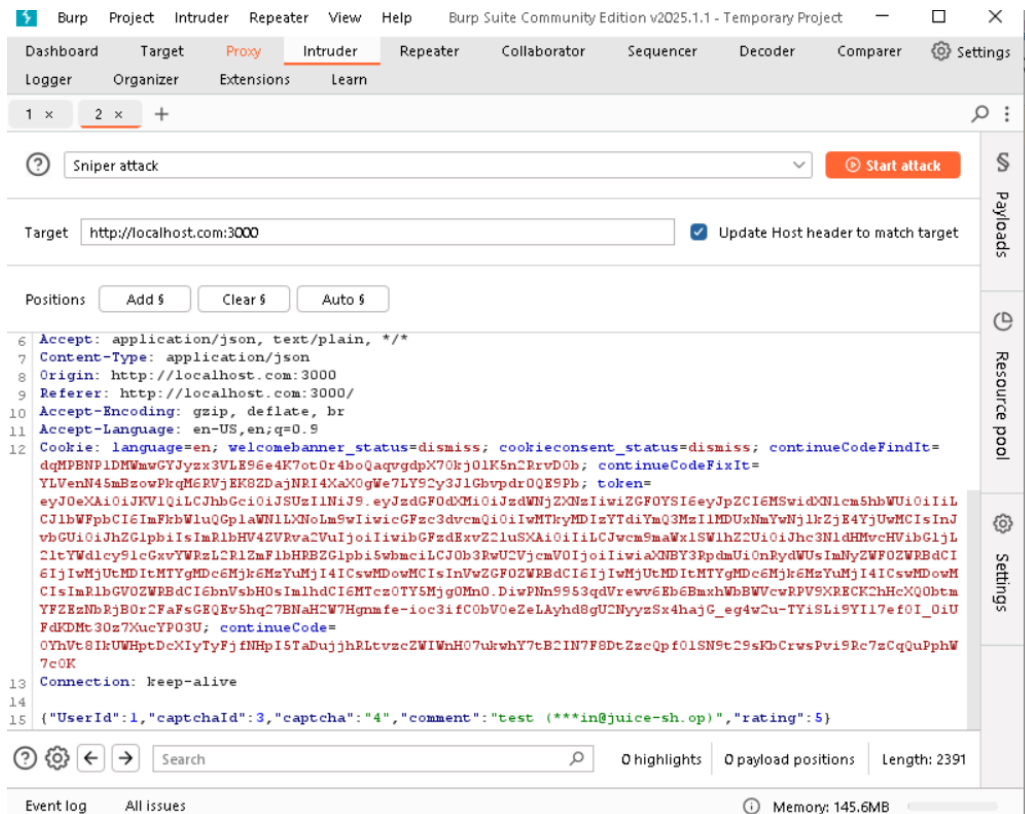
Event log All issues

forwarding this request to see the response through repeater

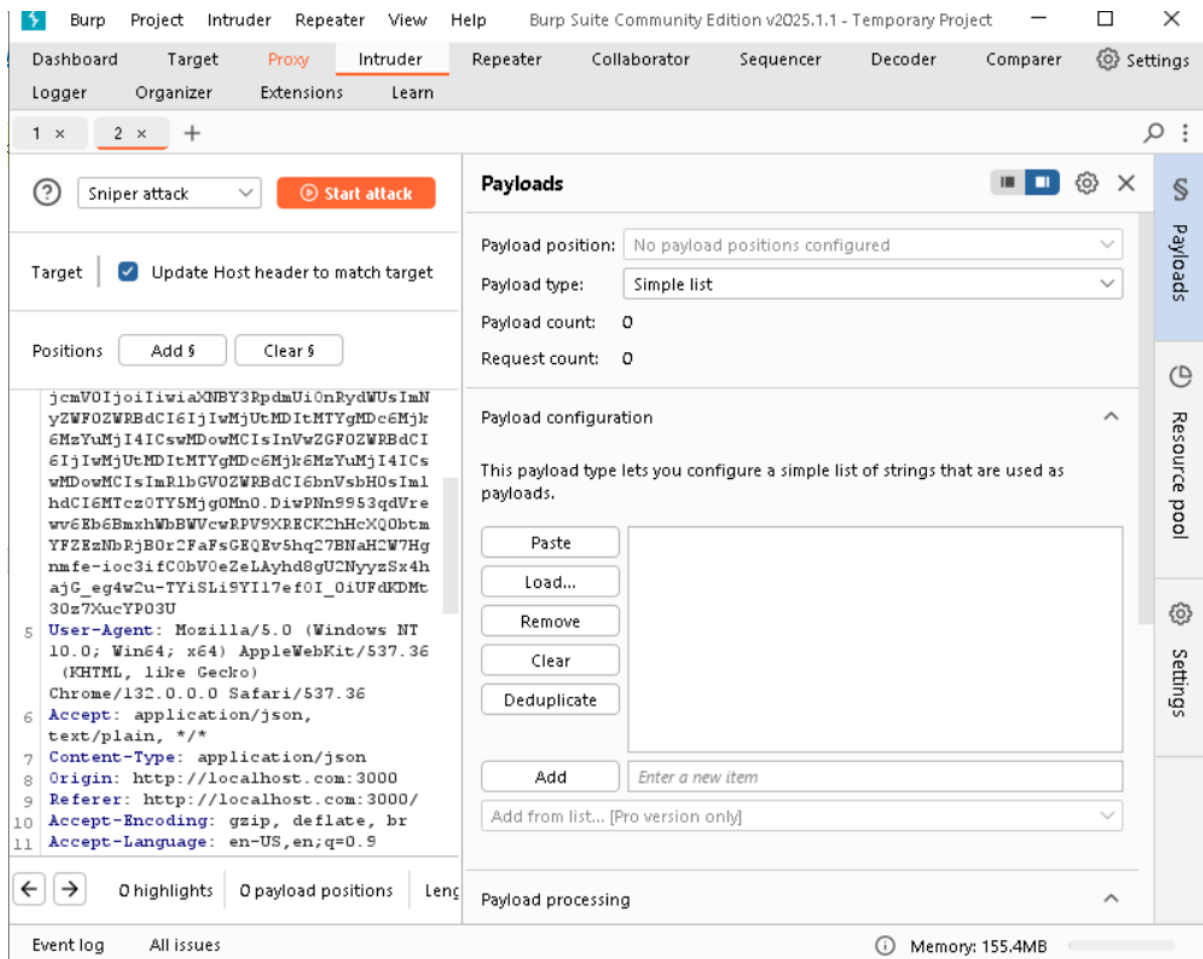


the response is success

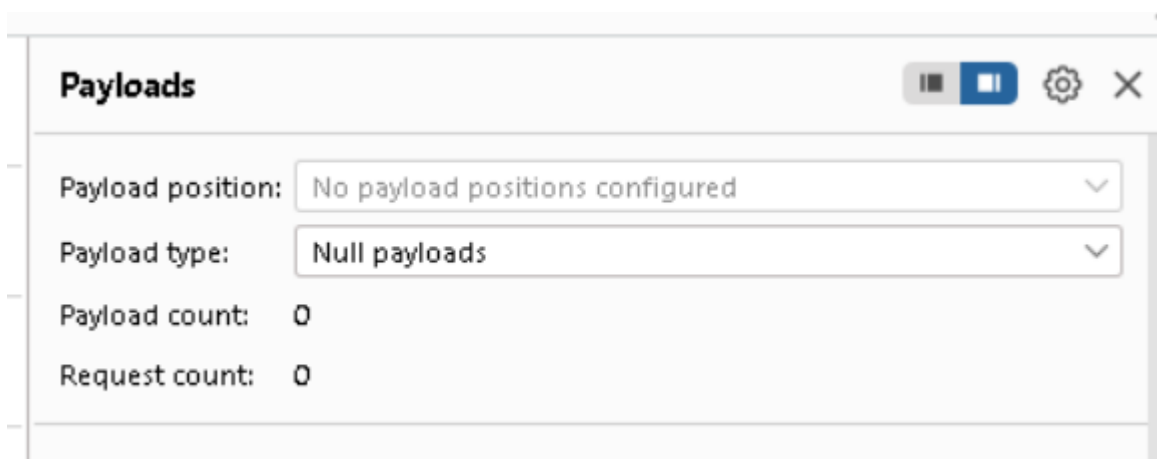
sending the request to the intruder for brute forcing the feedback



Now go to payload



setting the payload type as NULL payload



setting the payload count as 20

Request count: 0

---

### Payload configuration

This payload type generates payloads whose value is an empty string. With no payload markers configured, this can be used to repeatedly issue the base request unmodified.

☒ Generate  payloads

☐ Continue indefinitely

and then start the attack

it will send the feedback 20 times by using the same captcha

Attack Save 2. Intruder attack of http://localhost.com:3000

Attack Save ?

Results Positions

Capture filter: Capturing all items Apply capture filter

View filter: Showing all items

Request	Payload	Status code	Response ...	Error	Timeout	Length	Comment
0		201	124			593	
1	null	201	59			593	Naveen Kumar (naveenkumar@naveentech07.onmicrosoft.com) is signed in
2	null	201	83			593	
3	null	201	65			593	
4	null	201	76			593	
5	null	201	92			593	
6	null	201	51			593	
7	null	201	51			593	
8	null	201	60			593	
9	null	201	113			593	
10	null	201	66			593	
11	null	201	107			593	
12	null	201	104			593	
13	null	201	56			593	
14	null	201	64			593	
15	null	201	52			593	
16	null	201	52			593	
17	null	201	53			593	

Finished

Payloads Resource pool Settings

For all the feedbacks we got status code as 201 which means success



You successfully solved a challenge: CAPTCHA Bypass (Submit 10 or more customer feedbacks within 20 seconds.)

we successfully bypassed the captcha verification

to prevent this vulnerability:

**Use One-Time Tokens:** Ensure the CAPTCHA token is only valid for one attempt and cannot be reused.

**Short Token Expiry:** Set a short expiration time for CAPTCHA tokens.