

CYBER SECURITY LAB 24

1.Web Application Penetration Testing of HTTP Methods, HTTP Requests & Response using BurpSuite

HTTP Methods :-

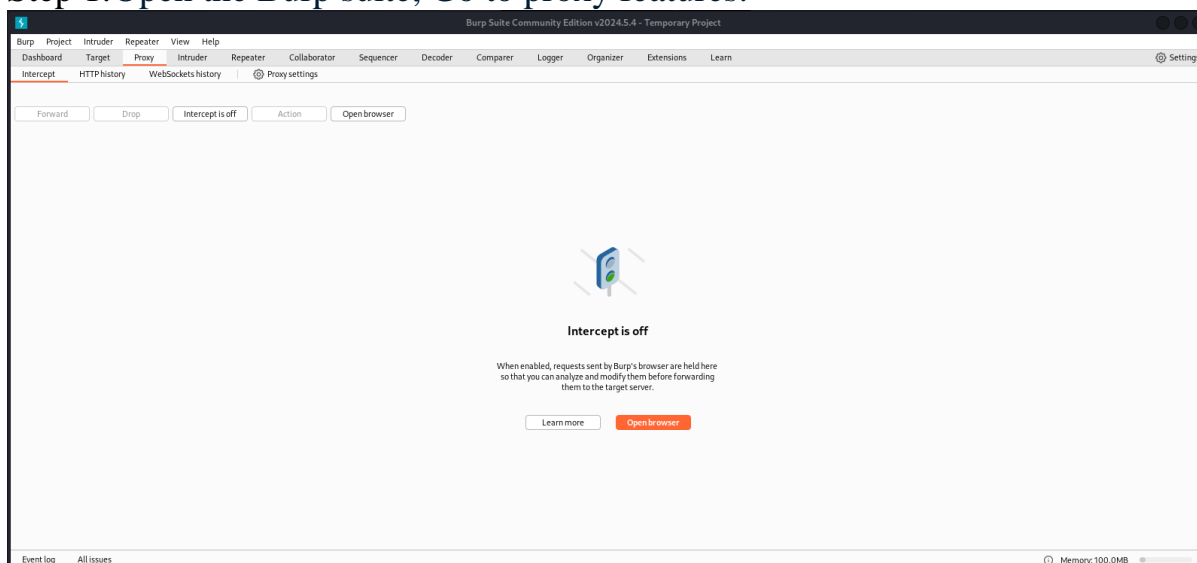
HTTP methods, also known as HTTP request methods, are actions that indicate the desired action to be performed on a resource identified by a URL. Each HTTP method has a specific purpose and semantic meaning.

This extension makes a OPTIONS request and determines if other HTTP methods than the original request are available. If there are other methods available, the request under Proxy/Http History

Here are the common HTTP methods:

- GET
- POST
- PUT
- TRACE
- DELETE
- PATCH
- HEAD

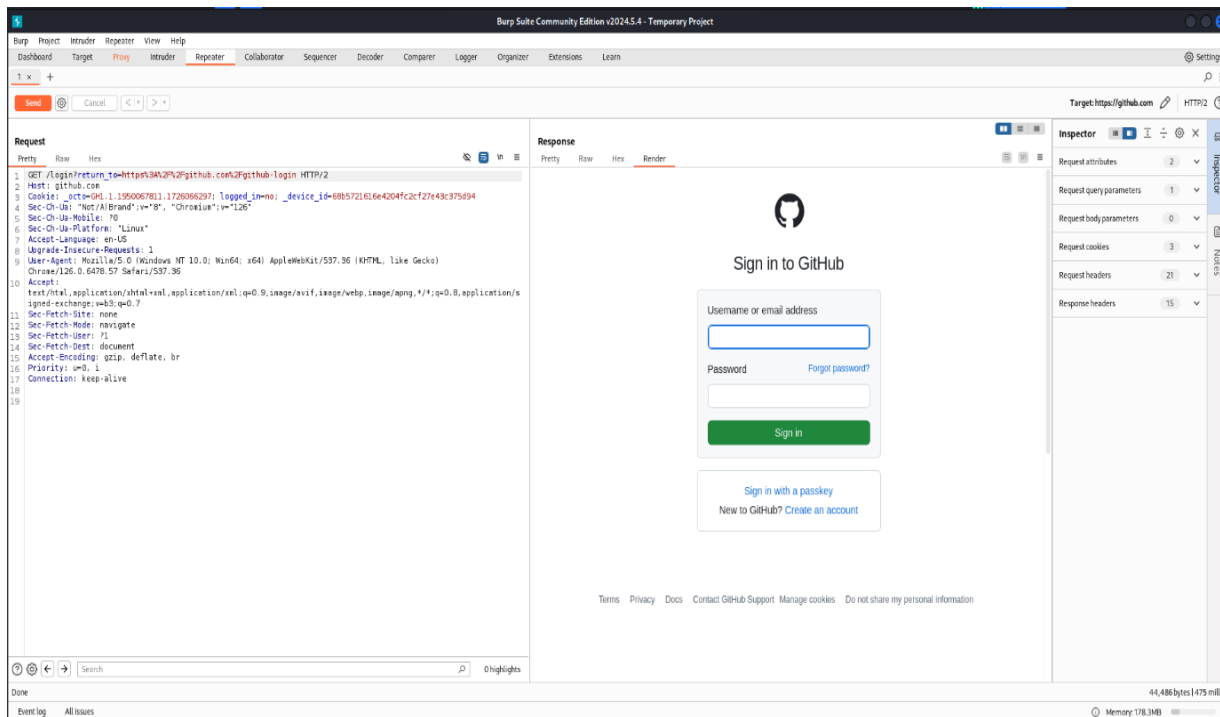
Step 1:Open the Burp suite, Go to proxy features.



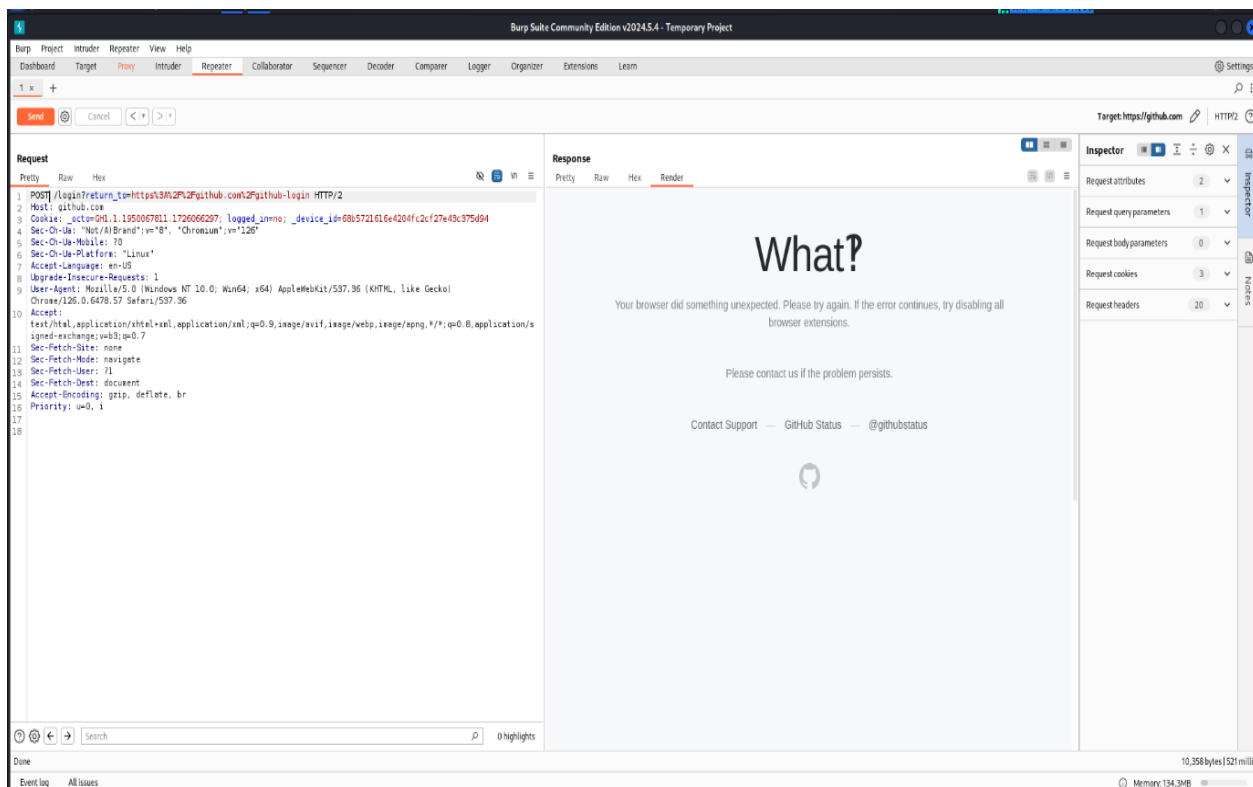
Step 2: Check for intercepted requests.

If you're seeing intercepted requests in the Proxy > Intercept tab, turn on

interception. Send request to get response of current http method.



Step 3: Change HTTP Method to check penetration testing of web application.



Step 4: Find target and set scope of URL or API to perform attacks.

The screenshot displays the Burp Suite Community Edition v2024.5.4 interface. The top menu bar includes options like Burp, Project, Intruder, Repeater, View, and Help. Below the menu, there's a toolbar with icons for Site map, Scope, and Issue definitions. The main workspace is divided into three panes. The left pane shows a site map with a tree structure of URLs, including https://api.github.com, https://collector.github.com, https://github.com, and https://github.githubassets.com. The middle pane displays a table of HTTP history items. The right pane shows a detailed view of the selected request, including the raw HTTP data and the response.

Host	Method	URL	Params	Status Code	Length	MIME Type	Title	Notes	Time Requested
https://api.github.com	POST	/private/browser/stats	✓	200	1088				12:17:18 12 Sep 2024
https://api.github.com	POST	/private/browser/stats	✓	200	1088				12:18:10 12 Sep 2024
https://api.github.com	GET	/private/browser/stats							

Request **Response**

Pretty Raw Hex

```
1 GET /private/browser/stats HTTP/2
2 Host: api.github.com
3 Accept-Encoding: gzip, deflate, br
4 Accept: */*
5 Accept-Language: en-US;q=0.9,en;q=0.8
6 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.6478.57 Safari/537.36
7 Connection: close
8 Cache-Control: max-age=0
9
10
```

Event log All issues 0 highlights Memory 134.3MB