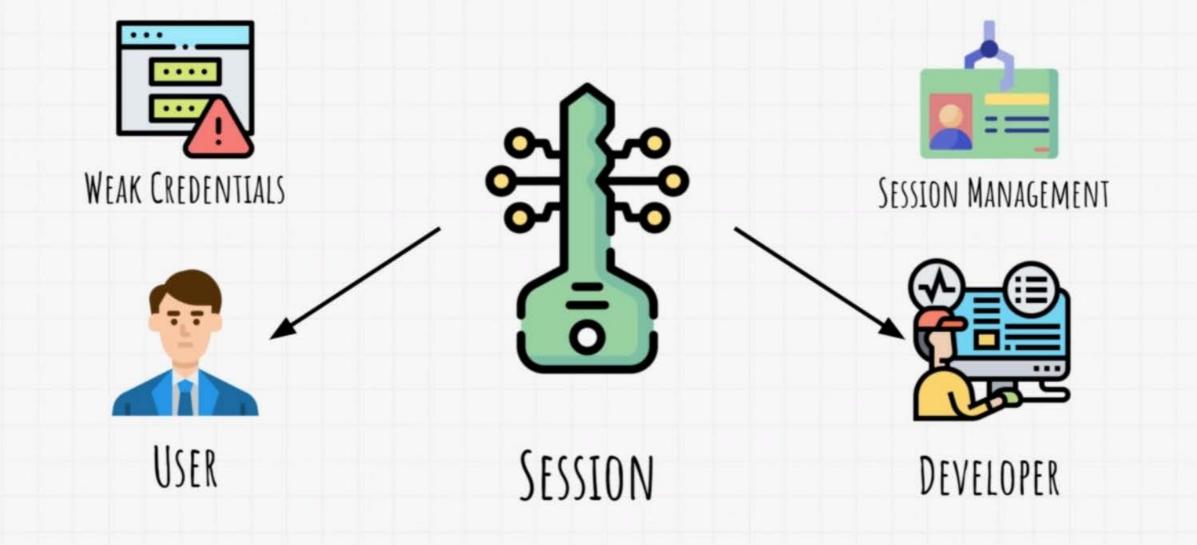


group number one, which are attacks that the user is responsible for, and group number two attacks



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





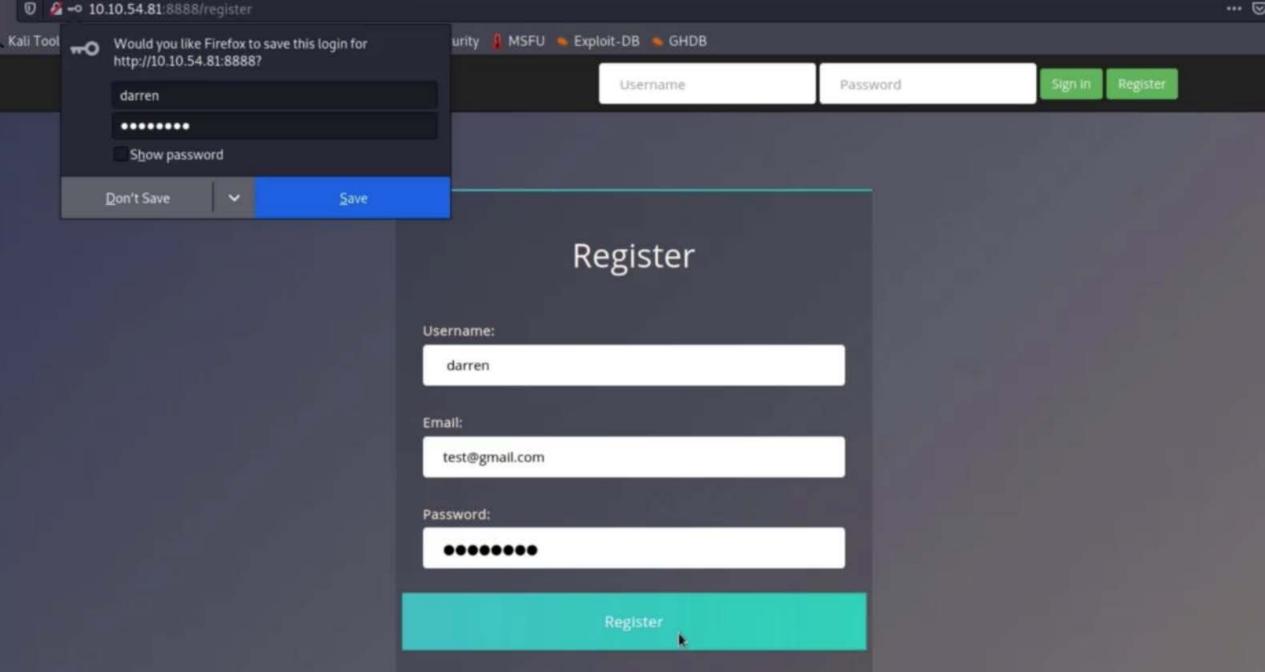
SESSION HIJACKING

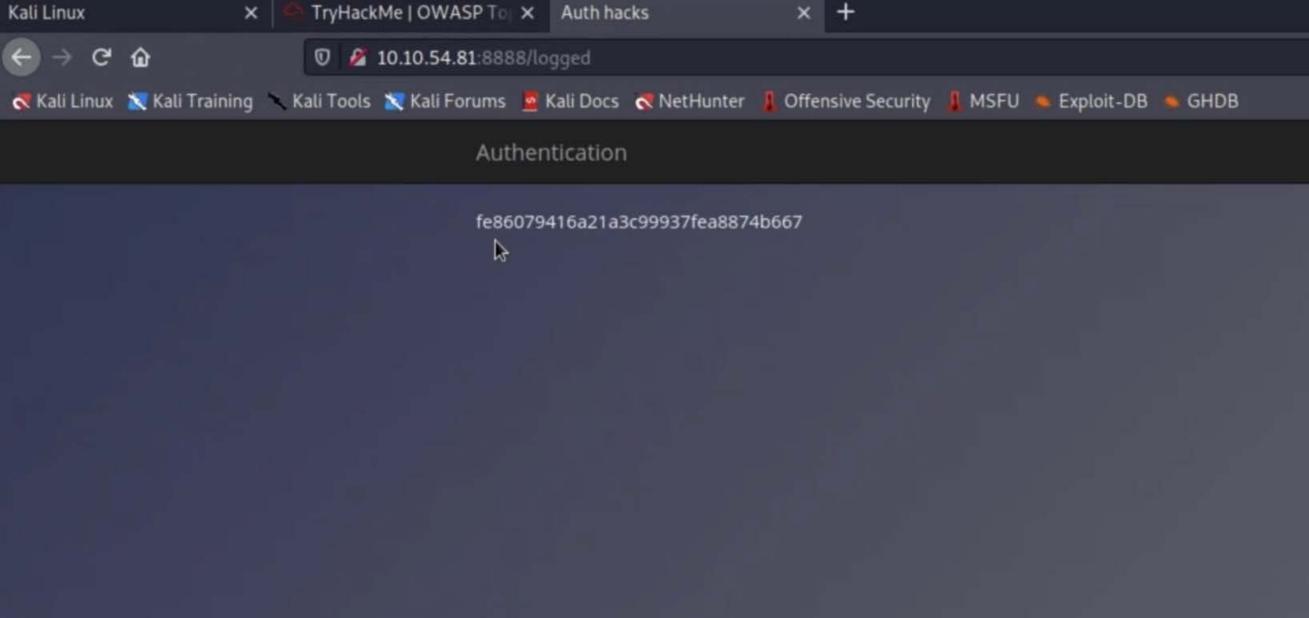


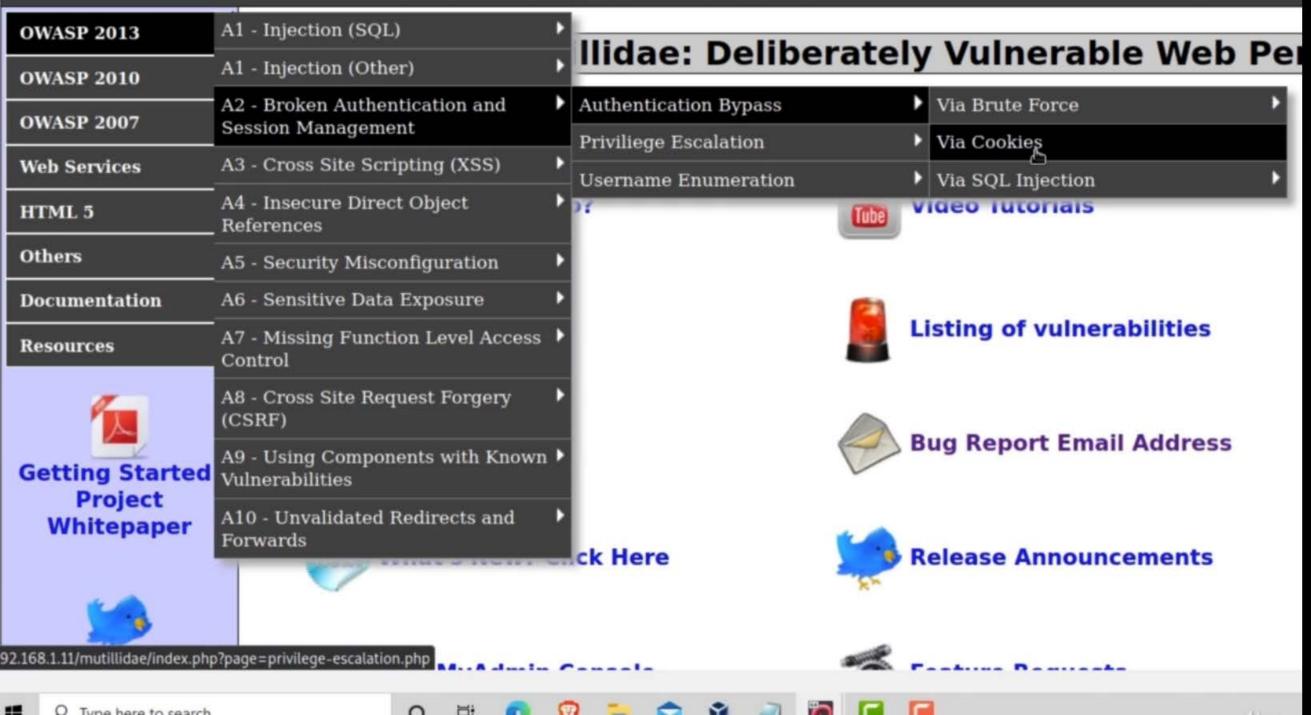
SESSION MANAGEMENT

WEAK ENCRYPTION/WEAK SESSION COOKIES

Title IP Address Expires Add 1 hour Terminate Authenticate-2 10.10.54.81 58m 18s 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? **Submit** Answer Format: \* Now try to do the same trick and see if you can login as arthur. **Q** Completed No answer needed What is the flag that you found in arthur's account? **Submit** Answer Format: \*







Burp Project	Intruder	Repeater	Window	Help							
Dashboard	Target	Proxy	Intruder	Repeater	Sequencer	Decoder	Comparer	Extender	Project options	User options	
Intercept	HTTP histor	ry We	bSockets hist	tory Option	ns						
Request to h		8.1.11:80 Drop	Interce	ptison	Action	Open Browser					
Pretty Raw	\n Actio	ons ~									
			page=priv	vilege-escal	ation.php HT	TP/1.1					
4 Accept: t 5 Accept-La 6 Accept-En 7 Referer: 8 Connectio	t: Mozill ext/html, nguage: e coding: g http://19 n: close howhints= nsecure-F	a/5.0 () applicaten-US,en; gzip, def 92.168.1. el; usern Requests:	ion/xhtml q=0.5 flate 11/mutill	l+xml,applic	r:78.0) Gecko, cation/xml;q=0 php?popUpNot:	0.9,image/we	ebp,*/*;q=0.		rids=swingset,jo	otto,phpbb2,redmine; acgroupswithpersist=nada	

```
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; g=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

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

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

Privilege Escalation

Introduction General Access Control Flaws AJAX Security Authentication Flaws

Password Strength

Forgot Password

Basic Authentication

Multi Level Login 2

Multi Level Login 1

Buffer Overflows
Code Quality
Concurrency
Cross-Site Scripting (XSS)
Improper Error Handling
Injection Flaws
Denial of Service
Insecure Communication
Insecure Configuration
Insecure Storage
Malicious Execution
Parameter Tampering
Session Management Flaws
Web Services
Admin Functions

Challenge

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 guestions below	
	MIC

What is the name of the authentication header:

What is the decoded value of the authentication header:

Submit

OWASP Foundation | Project WebGoat | Report Bug

```
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: g=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=1D7200C41A1FF19
11 Upgrade-Insecure-Requests: 1
12 Cache-Control: max-age=0
```

Pretty Raw In Actions V

Burp	Project	Intruder	Repeater	Window	Help						
Dasi	board	Target	Proxy	Intruder	Repeater	Sequencer	Decoder	Comparer	Extender	Project options	Usero
Z3V	c3Q6Z3Vl	c3Q=									
						$\bigcirc$					
gue	st:guest										
			I								
			T								

nication ration

on rina nent Flaws

ication

## 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>>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>>We are sorry for the any inconvenience and thank you for your cooparation.<br><br><br><br>Vour Goat Hills Financial Team</b><center> <br><img src='images/WebGoatFinancial /hanklogo inglac/centers

< minis > snow rarams

SHOW LOOKIES

Lesson Plan

SOUTHOR

Introduction General

Access Control Flaws AJAX Security Authentication Flaws Buffer Overflows Code Quality Concurrency Cross-Site Scripting (XSS) Improper Error Handling Injection Flaws Denial of Service Insecure Communication Insecure Configuration Insecure Storage

Hijack a Session

Malicious Execution

Parameter Tampering

Spoof an Authentication Cookie

Session Management Flaws

Session Fixation

Web Services Admin Functions Challenge

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!



OWASP WEDGOOD V5.4

HINTS > SHOW PARAMIS SHOW LOOKIES

Lesson Plan Snow Java

Solution

Introduction General

Access Control Flaws

AJAX Security

Authentication Flaws

Buffer Overflows

Code Quality

Concurrency

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Cookie

Session Fixation

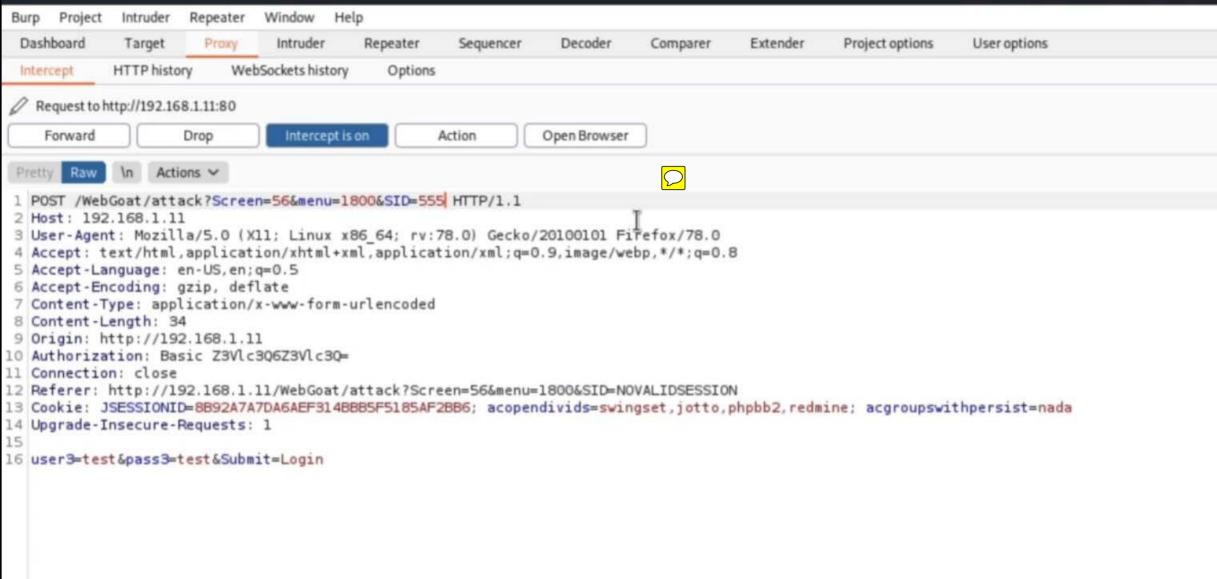
Web Services Admin Functions Challenge

Solution Videos Restart this Lesson

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

You are: Hacker Joe





AJAX Security
Authentication Flaws
Buffer Overflows
Code Quality
Concurrency
Cross-Site Scripting (XSS)
Improper Error Handling
Injection Flaws
Denial of Service
Insecure Communication
Insecure Configuration
Insecure Storage
Malicious Execution
Parameter Tampering
Session Management Flaws

Hijack a Session

Spoof an Authentication Cookie



Session Fixation

Web Services Admin Functions Challenge 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.

