

S3 L3

Svolgimento esercizio del 06/12/23

Giulia Salani

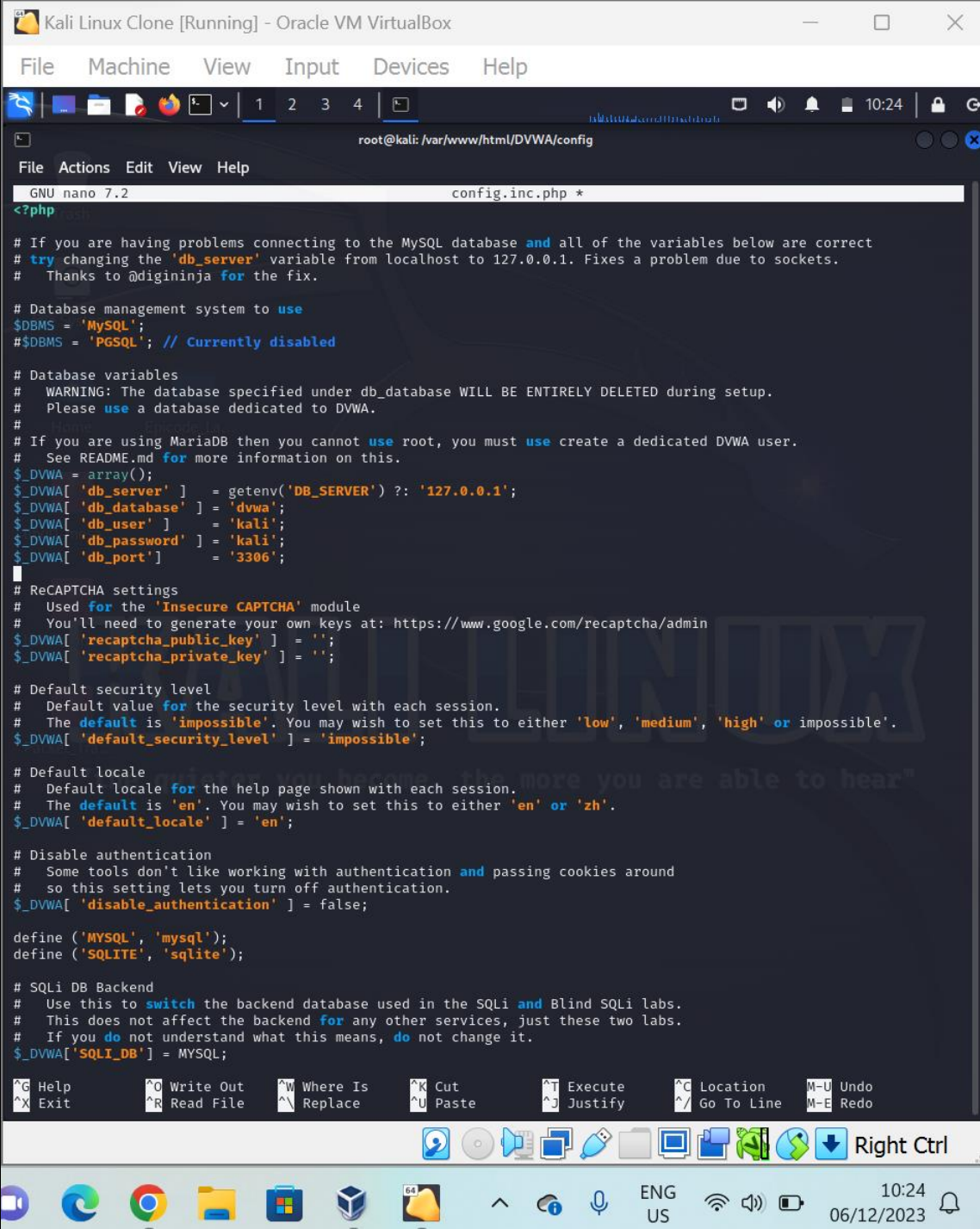
Consegna

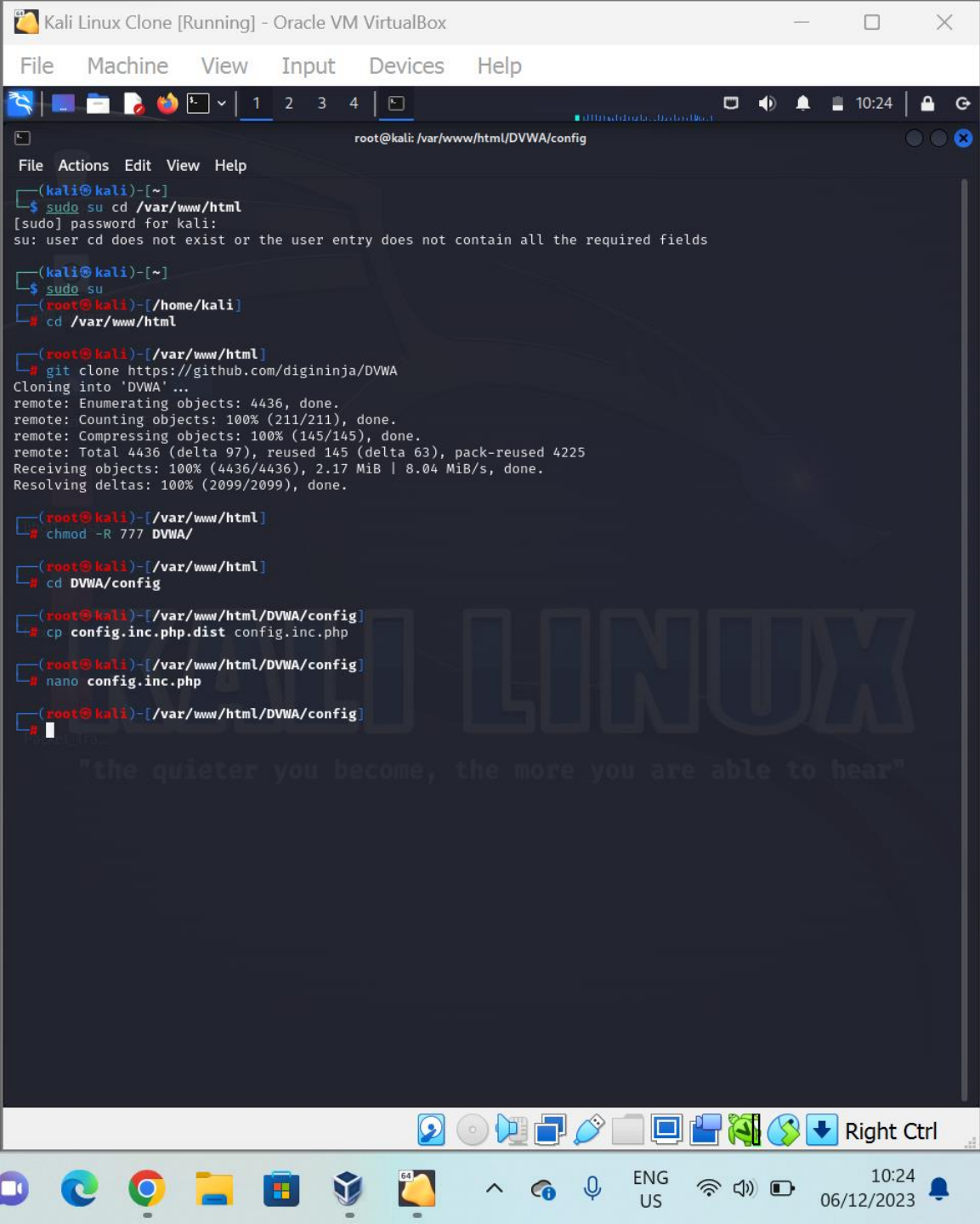
Traccia:

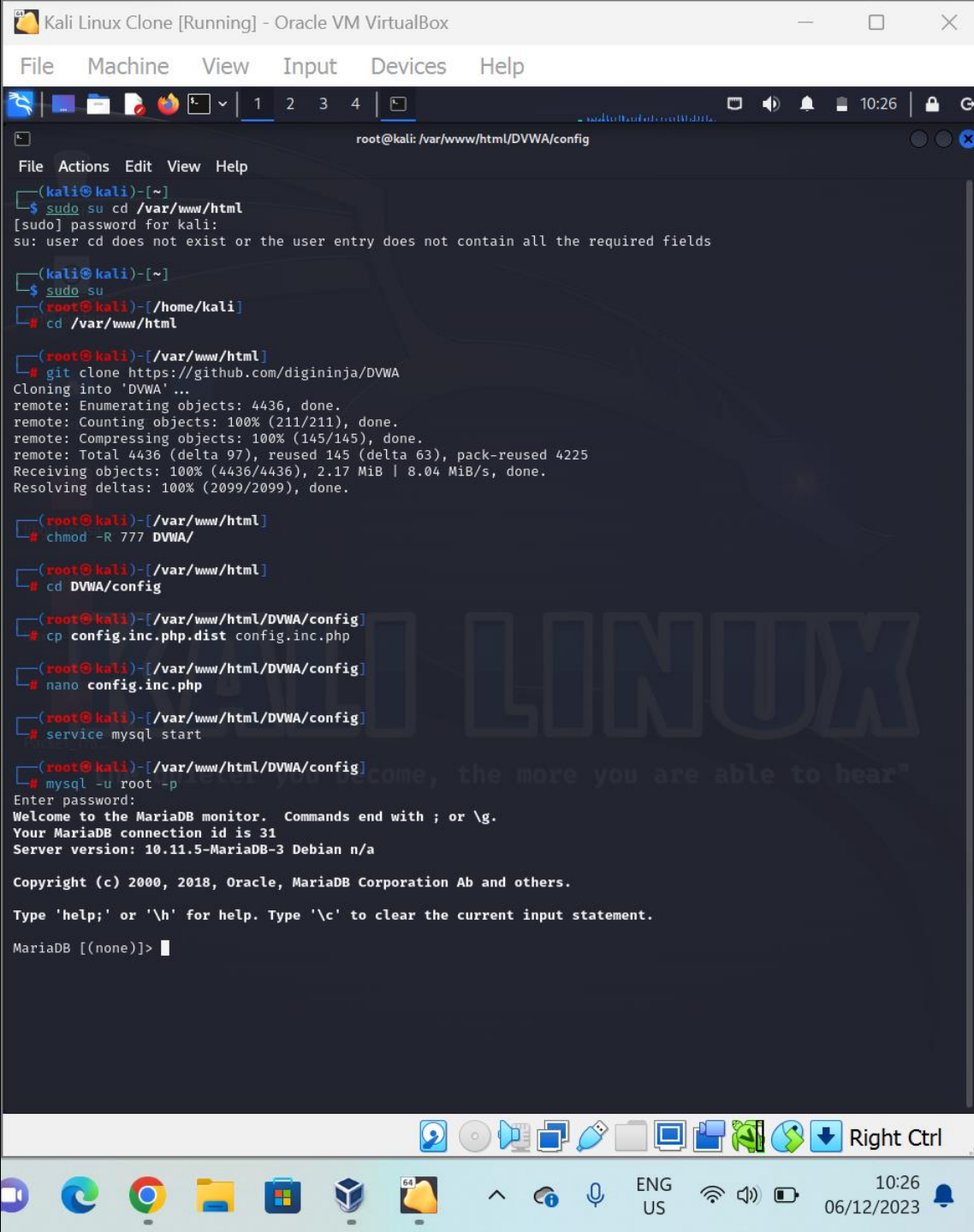
Nella lezione pratica di oggi vedremo come configurare una DVWA – ovvero damn vulnerable web application in Kali Linux.

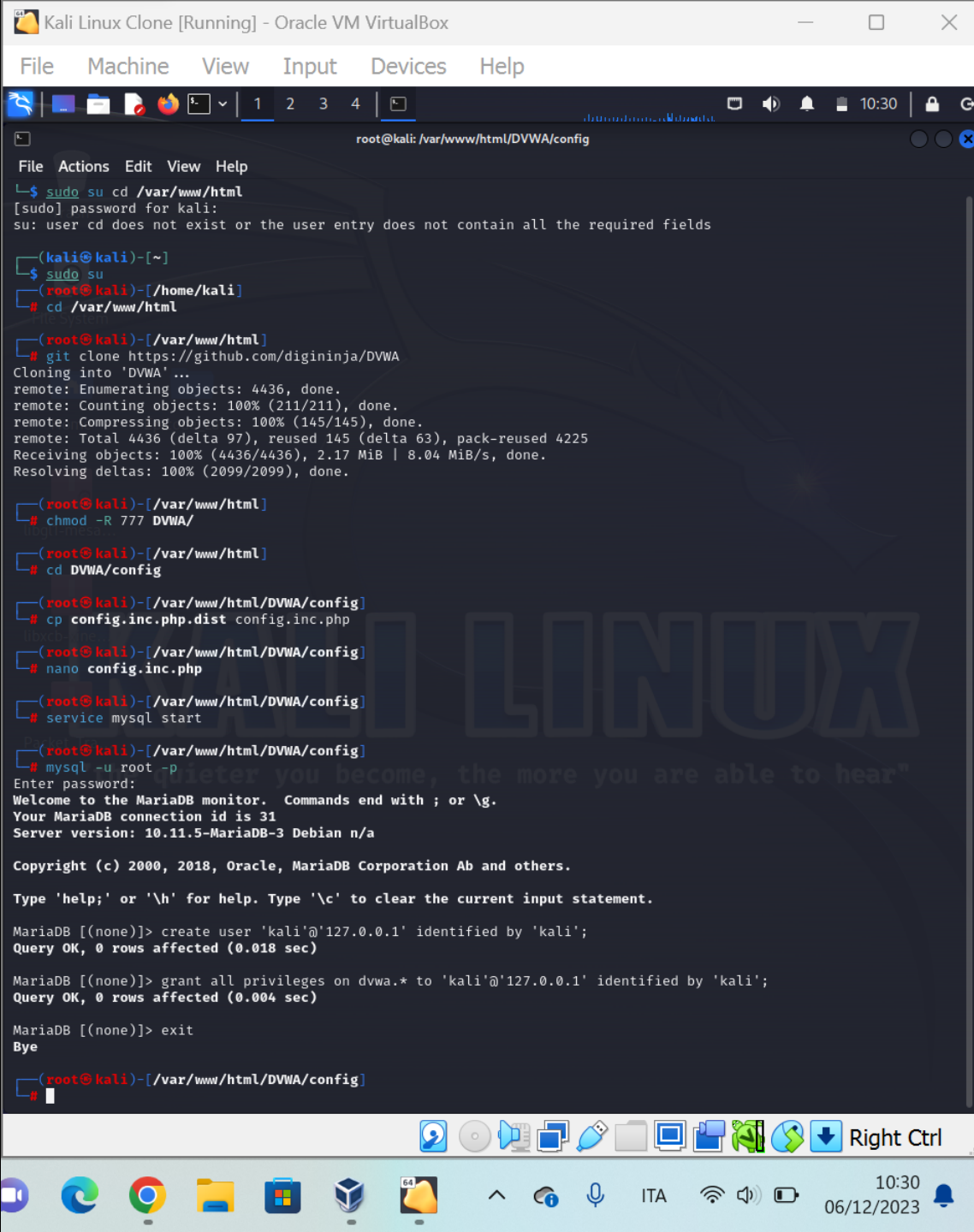
La DVWA ci sarà molto utile per i nostri test sia durante la build week 1 che durante lo sviluppo del modulo 2, dove vedremo da vicino le tecniche per sfruttare le vulnerabilità nella fase di exploit.

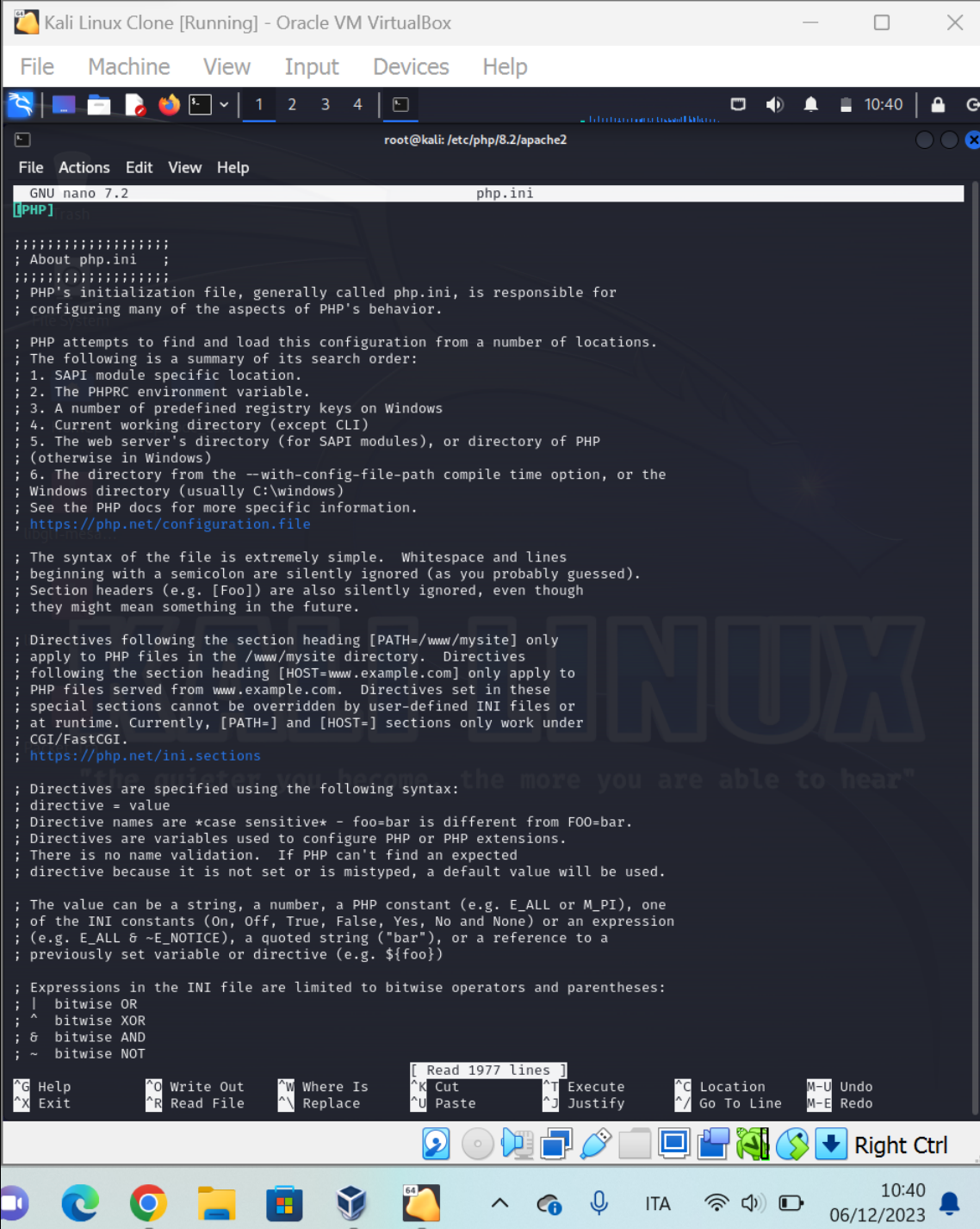
Svolgimento









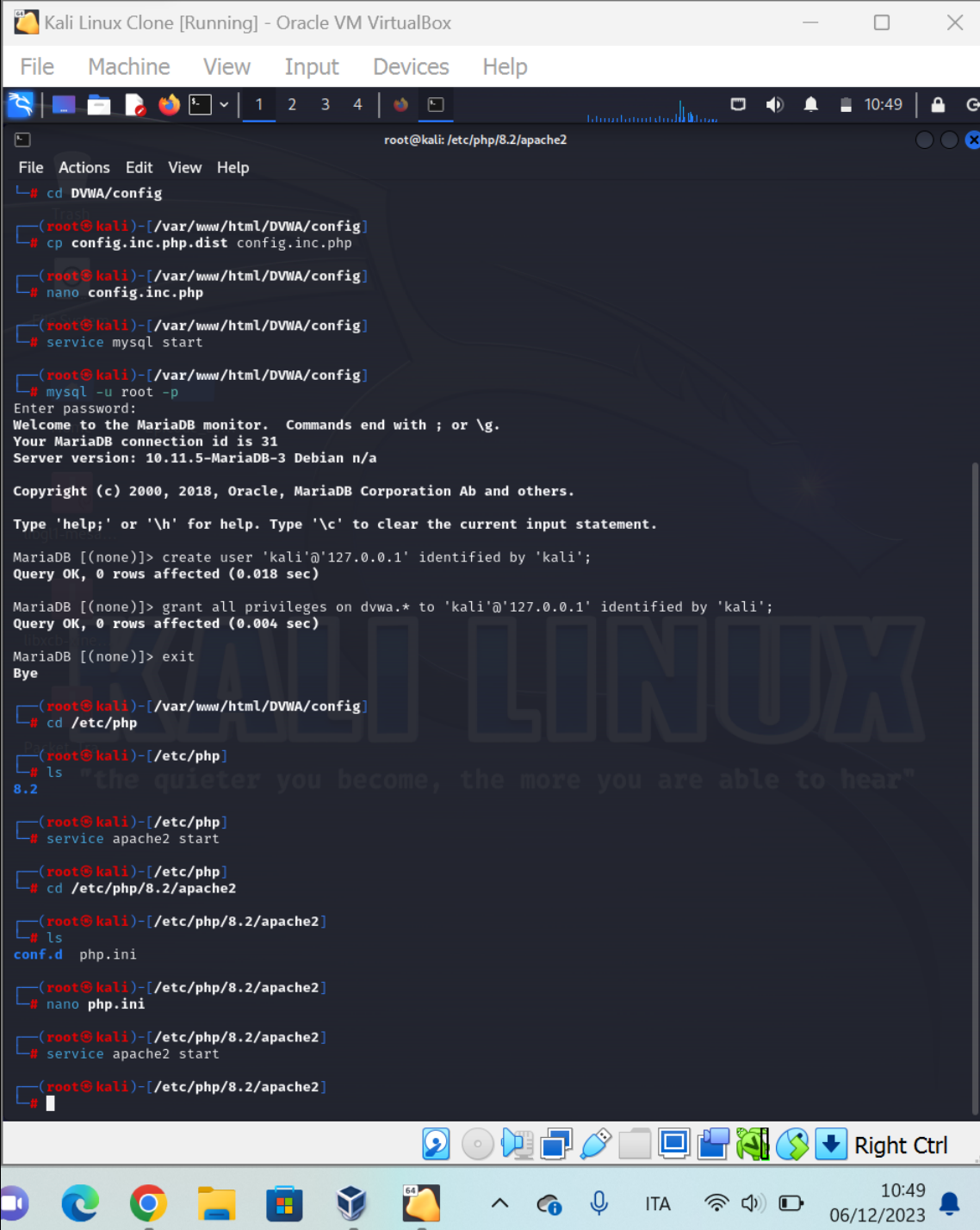


Logout

Security Level

1. Low - This security level is completely vulnerable and **has no security measures at all**. Its use is to be as an example of how web application vulnerabilities manifest through bad coding practices and to serve as a platform to teach or learn basic exploitation techniques.
2. Medium - This setting is mainly to give an example to the user of **bad security practices**, where the developer has tried but failed to secure an application. It also acts as a challenge to users to refine their exploitation techniques.
3. High - This option is an extension to the medium difficulty, with a mixture of **harder or alternative bad practices** to attempt to secure the code. The vulnerability may not allow the same extent of the exploitation, similar in various Capture The Flags (CTFs) competitions.
4. Impossible - This level should be **secure against all vulnerabilities**. It is used to compare the vulnerable source code to the secure source code.
Prior to DVWA v1.9, this level was known as 'high'.

Impossible





- Home
- Instructions
- Setup / Reset DB

Instructions

Setup / Reset DB

Brute Force

Command Injection

CSRF

File Inclusion

File Upload

Insecure CAPTCHA

SQL Injection

SQL Injection (Blind)

Weak Session IDs

XSS (DOM)

XSS (Reflected)

XSS (Stored)

CSP Bypass

JavaScript

Authorisation Bypass

Open HTTP Redirect

DVWA Security

PHP Info

About

Logout

Security Level

Security level is currently: **impossible**.

You can set the security level to low, medium, high or impossible. The security level changes the vulnerability level of DVWA:

1. Low - This security level is completely vulnerable and **has no security measures at all**. It's use is to be as an example of how web application vulnerabilities manifest through bad coding practices and to serve as a platform to teach or learn basic exploitation techniques.
2. Medium - This setting is mainly to give an example to the user of **bad security practices**, where the developer has tried but failed to secure an application. It also acts as a challenge to users to refine their exploitation techniques.
3. High - This option is an extension to the medium difficulty, with a mixture of **harder or alternative bad practices** to attempt to secure the code. The vulnerability may not allow the same extent of the exploitation, similar in various Capture The Flags (CTFs) competitions.
4. Impossible - This level should be **secure against all vulnerabilities**. It is used to compare the vulnerable source code to the secure source code.
Prior to DVWA v1.9, this level was known as 'high'.

Impossible ▾ Submit

Settings

Tools > Proxy

Manage global settings

All User Project

Tools

Proxy

Intruder

Repeater

Sequencer

Burp's browser

> Project

Sessions

> Network

> User interface

> Suite

Extensions

Configuration library

Proxy listeners

Burp Proxy uses listeners to receive incoming HTTP requests from your browser. You will need to configure your browser to use on

Add

Edit

Remove

Running	Interface	Invisible	Redirect	Certificate
✓	127.0.0.1:8080			Per-host

Each installation of Burp generates its own CA certificate that Proxy listeners can use when negotiating TLS connections. You can installation of Burp.

Import / export CA certificate

Regenerate CA certificate

Request interception rules

Use these settings to control which requests are stalled for viewing and editing in the Intercept tab.

☒ Intercept requests based on the following rules: Master interception is turned off

Add

Edit

Remove

Up

Down

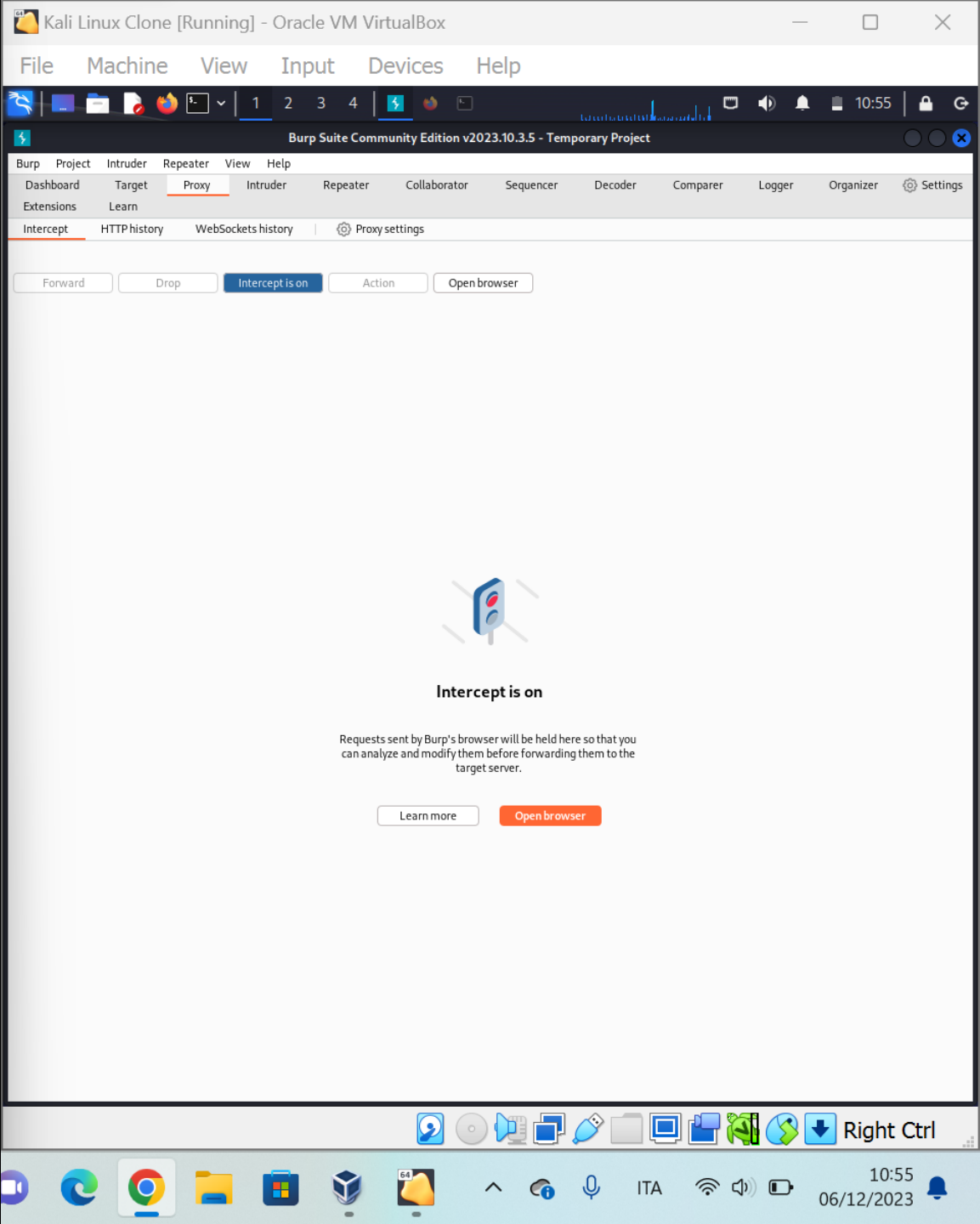
Enabled	Operator	Match type	Relationship	Condition
<input checked="" type="checkbox"/>		File extension	Does not match	(^gif\$ ^jpg\$ ^png\$ ^css\$ ^js\$
<input type="checkbox"/>	Or	Request	Contains parameters	
<input type="checkbox"/>	Or	HTTP method	Does not match	(get post)
<input type="checkbox"/>	And	URL	Is in target scope	

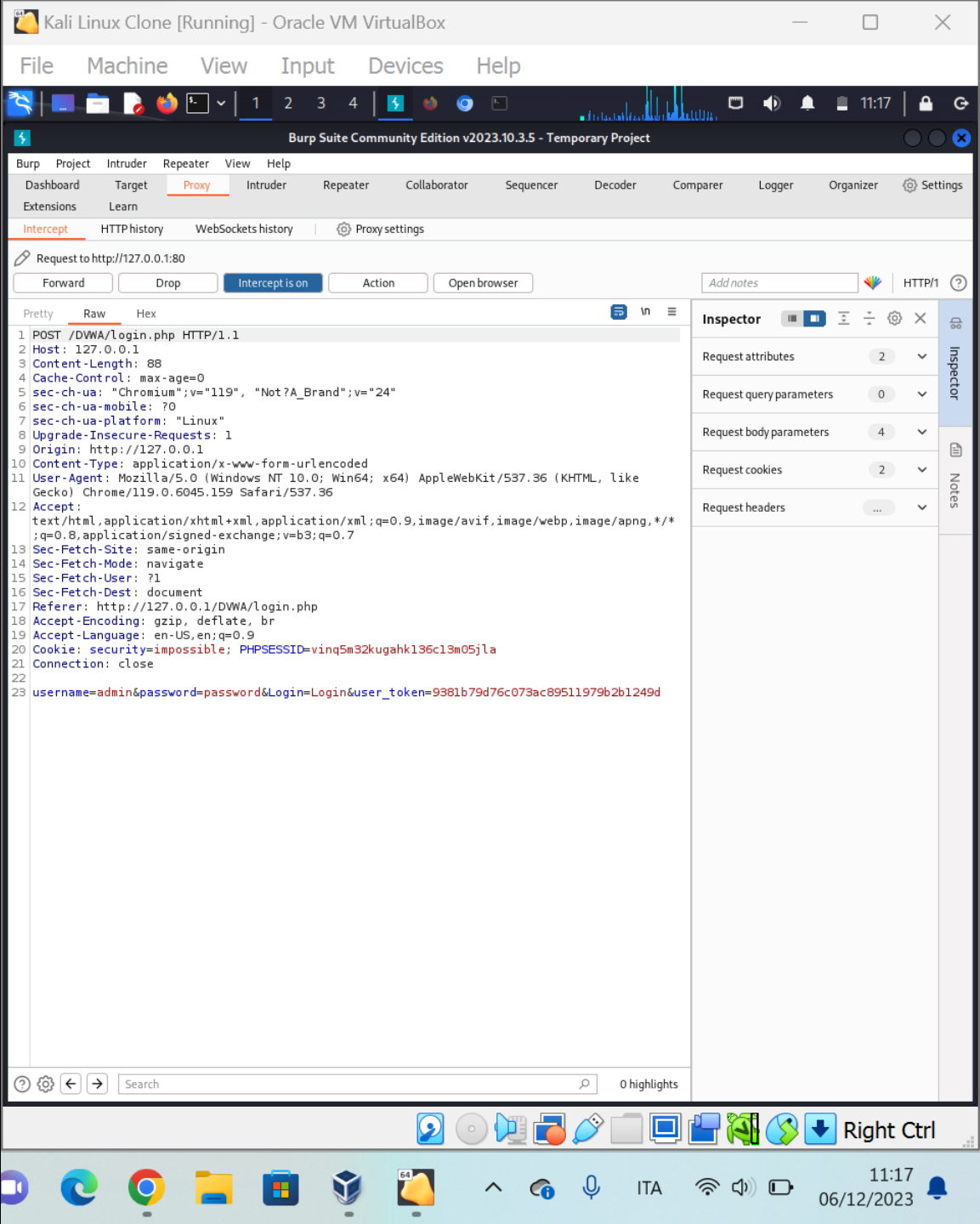
☐ Automatically fix missing or superfluous new lines at end of request

pt is off

by Burp's browser are held here
modify them before forwarding
target server.

Open browser





Kali Linux Clone [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

1 2 3 4

11:18

Burp Suite Community Edition v2023.10.3.5 - Temporary Project

Dashboard Target Proxy Intruder Repeater View Help

Extensions Learn

Intercept HTTP history WebSockets history Proxy settings

Request to http://127.0.0.1:80

Forward Drop Intercept is on Action Open browser

Add notes HTTP/1

Pretty Raw Hex

```
1 POST /DVWA/login.php HTTP/1.1
2 Host: 127.0.0.1
3 Content-Length: 88
4 Cache-Control: max-age=0
5 sec-ch-ua: "Chromium";v="119", "Not?A_Brand";v="24"
6 sec-ch-ua-mobile: ?0
7 sec-ch-ua-platform: "Linux"
8 Upgrade-Insecure-Requests: 1
9 Origin: http://127.0.0.1
10 Content-Type: application/x-www-form-urlencoded
11 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/119.0.6045.159 Safari/537.36
12 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=0.7
13 Sec-Fetch-Site: same-origin
14 Sec-Fetch-Mode: navigate
15 Sec-Fetch-User: ?1
16 Sec-Fetch-Dest: document
17 Referer: http://127.0.0.1/DVWA/login.php
18 Accept-Encoding: gzip, deflate, br
19 Accept-Language: en-US,en;q=0.9
20 Cookie: security=impossible; PHPSESSID=vinq5m32kugahk136c13m05jla
21 Connection: close
22
23 username=lupo&password=albertop&Login=Login&user_token=9381b79d76c073ac89511979b2b1249d
```

Inspector

Request attributes 2

Request query parameters 0

Request body parameters 4

Request cookies 2

Request headers ...

Notes

0 highlights

Right Ctrl

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Kali Linux Clone [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Burp Suite Community Edition v2023.10.3.5 - Temporary Project

Dashboard Target Proxy Repeater Intruder Sequencer Decoder Comparer Logger Organizer Settings

Target: http://127.0.0.1 HTTP/1

Request

```
1 GET /DVWA/login.php HTTP/1.1
2 Host: 127.0.0.1
3 Cache-Control: max-age=0
4 sec-ch-ua: "Chromium";v="119",
  "Not?A_Brand";v="24"
5 sec-ch-ua-mobile: ?0
6 sec-ch-ua-platform: "Linux"
7 Upgrade-Insecure-Requests: 1
8 Origin: http://127.0.0.1
9 User-Agent: Mozilla/5.0 (Windows NT 10.0;
  Win64; x64) AppleWebKit/537.36 (KHTML,
  like Gecko) Chrome/119.0.6045.159
  Safari/537.36
10 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=0.7
11 Sec-Fetch-Site: same-origin
12 Sec-Fetch-Mode: navigate
13 Sec-Fetch-User: ?1
14 Sec-Fetch-Dest: document
15 Referer: http://127.0.0.1/DVWA/login.php
16 Accept-Encoding: gzip, deflate, br
17 Accept-Language: en-US,en;q=0.9
18 Cookie: security=impossible; PHPSESSID=
  ving5m32kugahk136c13m05jla
19 Connection: close
20
21
```

Response

```
54
55 </fieldset>
56
57 <input type='hidden' name='
  user_token' value='
  78f848ca9ba10b4b28ef8c95e885e7c1
  ' />
58
59 </form>
60
61 <br />
62
63 <div class="message">
  Login failed
  </div>
64
65 <br />
66 <br />
67 <br />
68 <br />
69 <br />
70 <br />
71 <br />
72 <br />
73
74 </div>
75 <!--<div id="content">-->
76 <div id="footer">
77
78 <p>
  <a href="
  https://github.com/digininja/DW
  A/" target="_blank">
    Damn Vulnerable Web
    Application (DVWA)
  </a>
  </p>
79
80 </div>
81 <!--<div id="footer"> -->
82 </div>
83 <!--<div id="wrapper"> -->
84 </body>
85 </html>
86
```

Inspector

Request attributes 2

Request query parameters 0

Request body parameters 0

Request cookies 2

Request headers 18

Response headers 9

Done 1,672 bytes | 0 millis

Right Ctrl

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