

EPICODE-CS0124

S3/L2 - Pratica

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Pratica

Traccia:

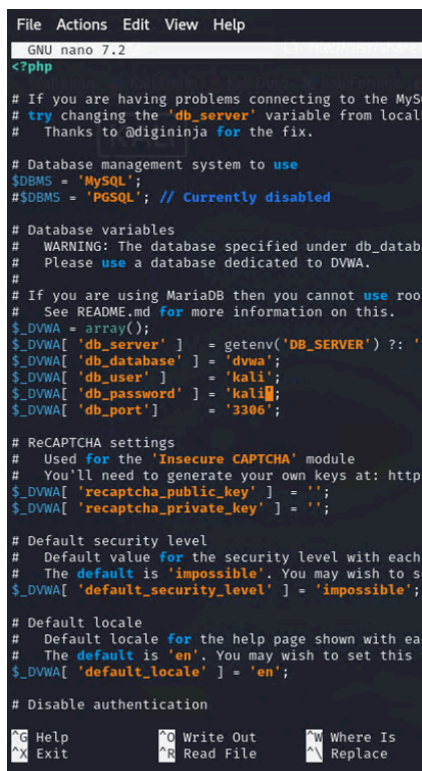
Nella lezione pratica di oggi vedremo come configurare una DVWA – ovvero damn vulnerable web application in Kali Linux. La DVWA ci sarà molto utile per i nostri test.

1. Installazione DVWA

1.1. Connessione della VM ad internet

La connessione è stata effettuata modificando la connessione di rete della macchina virtuale in modalità Rete con NAT, impostando la NAT su 192.168.50.0/24.

1.2. Installazione e modifica db_user e db_password



```
File Actions Edit View Help
GNU nano 7.2
<?php

# If you are having problems connecting to the MySQL database
# try changing the 'db_server' variable from localhost to 127.0.0.1
# Thanks to @digininja for the fix.

# Database management system to use
$DBMS = 'MySQL';
#$DBMS = 'PGSQL'; // Currently disabled

# Database variables
# WARNING: The database specified under db_database must exist.
# Please use a database dedicated to DVWA.
#
# If you are using MariaDB then you cannot use root as the database user.
# See README.md for more information on this.
$_DVWA = array();
$_DVWA['db_server'] = getenv('DB_SERVER') ? : 'localhost';
$_DVWA['db_database'] = 'dvwa';
$_DVWA['db_user'] = 'kali';
$_DVWA['db_password'] = 'kali';
$_DVWA['db_port'] = '3306';

# ReCAPTCHA settings
# Used for the 'Insecure CAPTCHA' module
# You'll need to generate your own keys at: https://www.google.com/recaptcha/api/sitekey
$_DVWA['recaptcha_public_key'] = '';
$_DVWA['recaptcha_private_key'] = '';

# Default security level
# Default value for the security level with each session
# The default is 'impossible'. You may wish to set this to 'low' or 'medium'
$_DVWA['default_security_level'] = 'impossible';

# Default locale
# Default locale for the help page shown with each session
# The default is 'en'. You may wish to set this to 'fr' or 'de'
$_DVWA['default_locale'] = 'en';

# Disable authentication
```

1.3. Creazione utente kali e funzionamento MariaDB

```
root@kali: /var/www/html/DVWA/config
File Actions Edit View Help
Receiving objects: 100% (4494/4494), 2.26 MiB | 12.71 MiB/s, done.
Resolving deltas: 100% (2126/2126), done.

(root@kali)-[/var/www/html]
# chmod -R 777 DVWA/

(root@kali)-[/var/www/html]
# cd DVWA/config

(root@kali)-[/var/www/html/DVWA/config]
# cp config.inc.php.dist config.inc.php

(root@kali)-[/var/www/html/DVWA/config]
# nano config.inc.php

(root@kali)-[/var/www/html/DVWA/config]
# service mysql start

(root@kali)-[/var/www/html/DVWA/config]
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 31
Server version: 10.11.5-MariaDB-3 Debian n/a

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> Ctrl-C -- exit!
Aborted

(root@kali)-[/var/www/html/DVWA/config]
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 32
Server version: 10.11.5-MariaDB-3 Debian n/a

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]>

(root@kali)-[/var/www/html/DVWA/config]
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 32
Server version: 10.11.5-MariaDB-3 Debian n/a

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

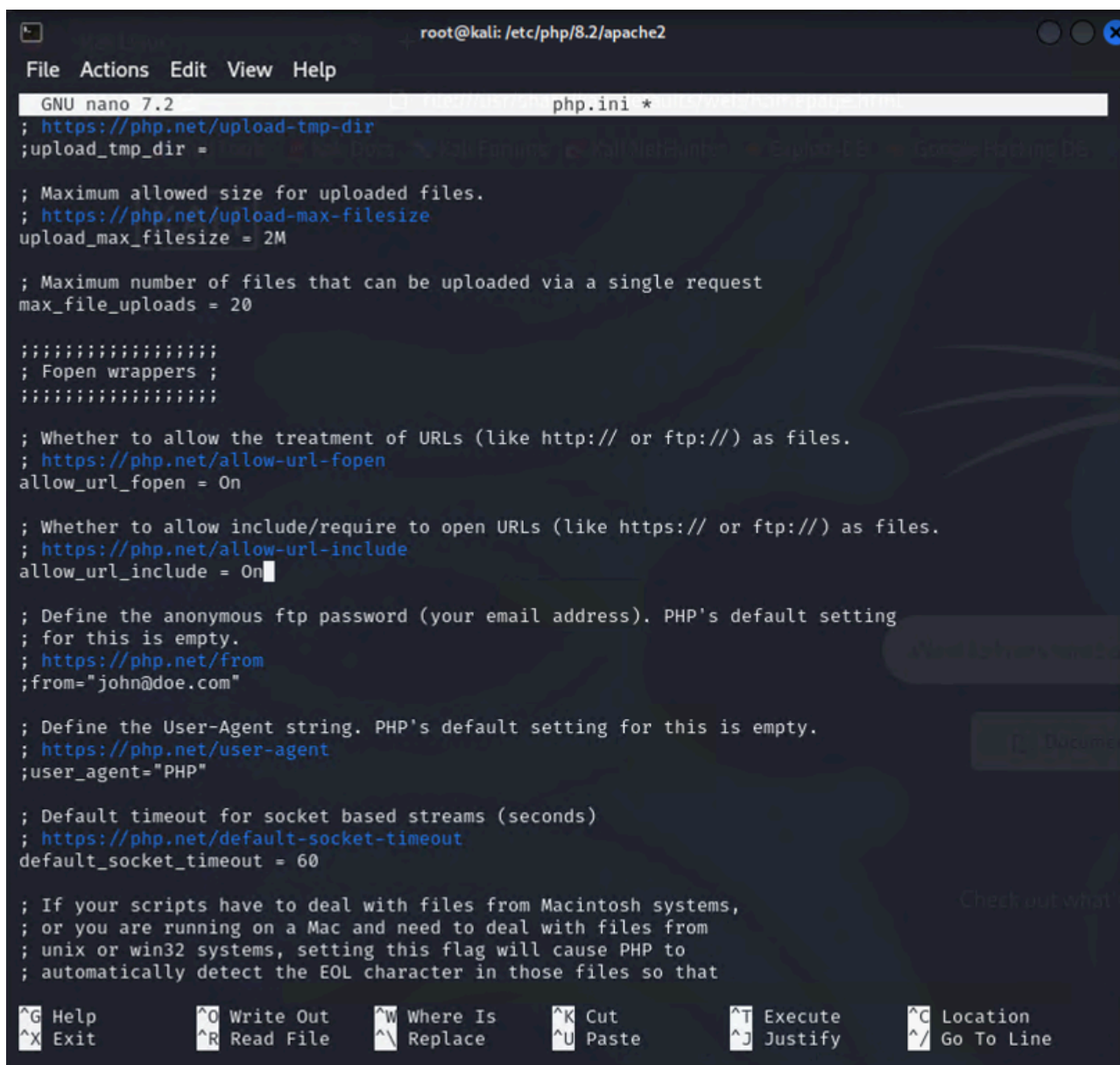
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> create user 'kali'@'127.0.0.1' identified by 'kali';
Query OK, 0 rows affected (0.006 sec)

MariaDB [(none)]> grant all privileges on dvwa.* to 'kali'@'127.0.0.1' identified by 'kali';
Query OK, 0 rows affected (0.003 sec)

MariaDB [(none)]>
```

1.4. Modifica php.ini



```
root@kali: /etc/php/8.2/apache2
GNU nano 7.2 php.ini *
; https://php.net/upload-tmp-dir
upload_tmp_dir =

; Maximum allowed size for uploaded files.
; https://php.net/upload-max-filesize
upload_max_filesize = 2M

; Maximum number of files that can be uploaded via a single request
max_file_uploads = 20

;;;;;;;;;;;;;
; Fopen wrappers ;
;;;;;;;;;;;;;

; Whether to allow the treatment of URLs (like http:// or ftp://) as files.
; https://php.net/allow-url-fopen
allow_url_fopen = On

; Whether to allow include/require to open URLs (like https:// or ftp://) as files.
; https://php.net/allow-url-include
allow_url_include = On

; Define the anonymous ftp password (your email address). PHP's default setting
; for this is empty.
; https://php.net/from
;from="john@doe.com"

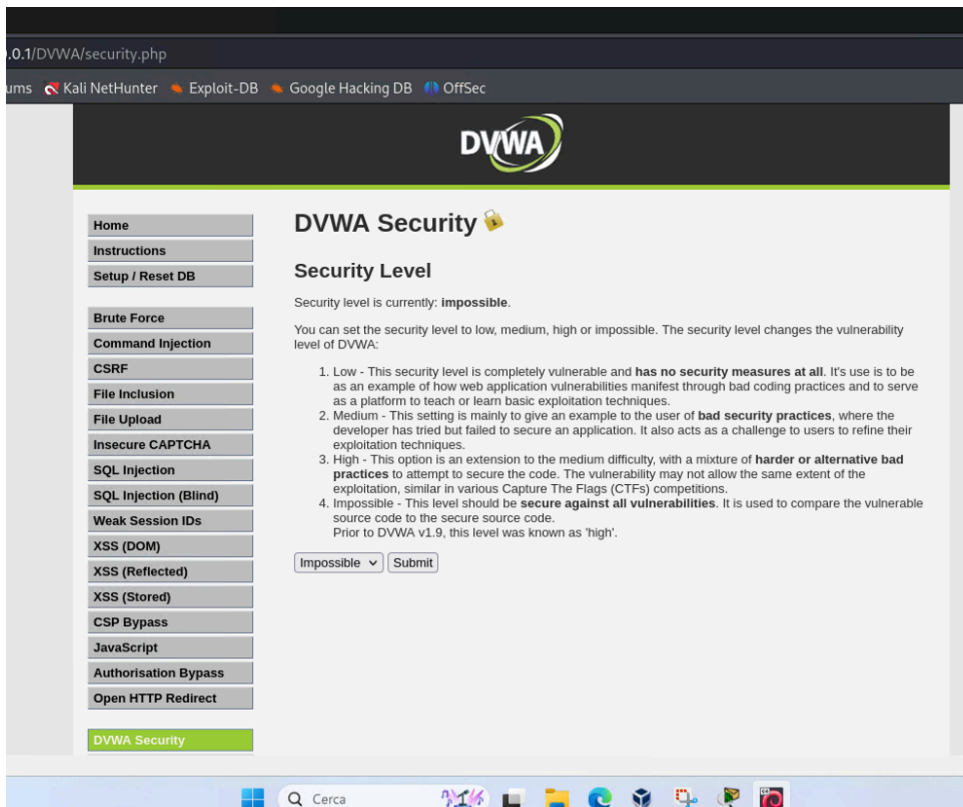
; Define the User-Agent string. PHP's default setting for this is empty.
; https://php.net/user-agent
user_agent="PHP"

; Default timeout for socket based streams (seconds)
; https://php.net/default-socket-timeout
default_socket_timeout = 60

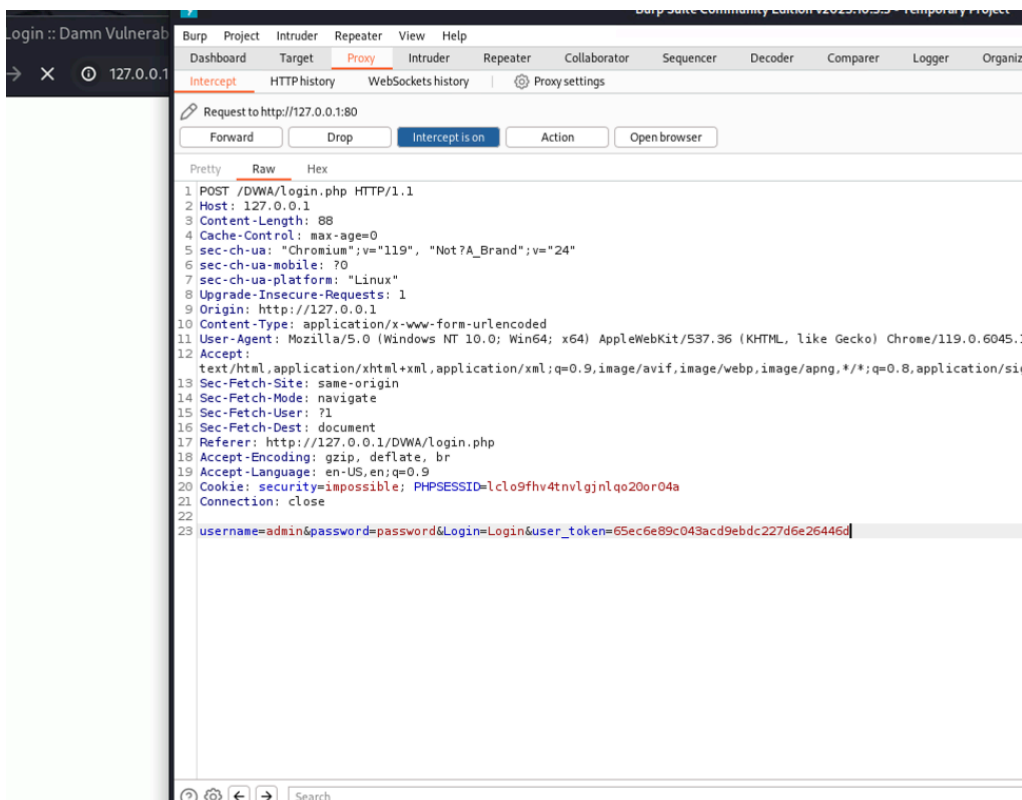
; If your scripts have to deal with files from Macintosh systems,
; or you are running on a Mac and need to deal with files from
; unix or win32 systems, setting this flag will cause PHP to
; automatically detect the EOL character in those files so that

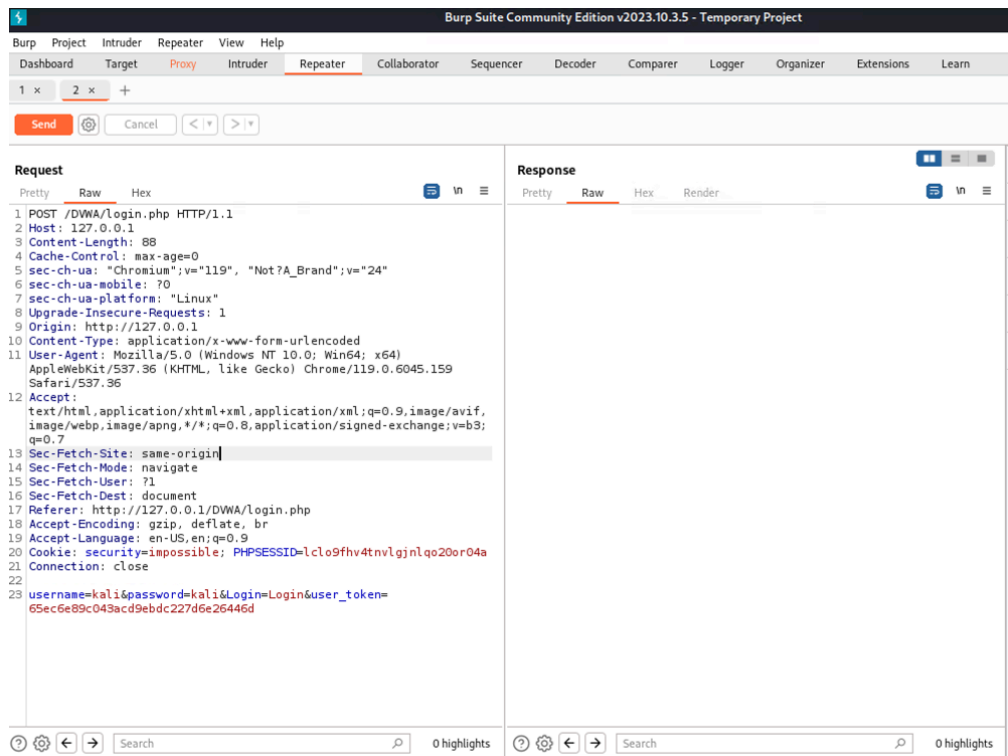
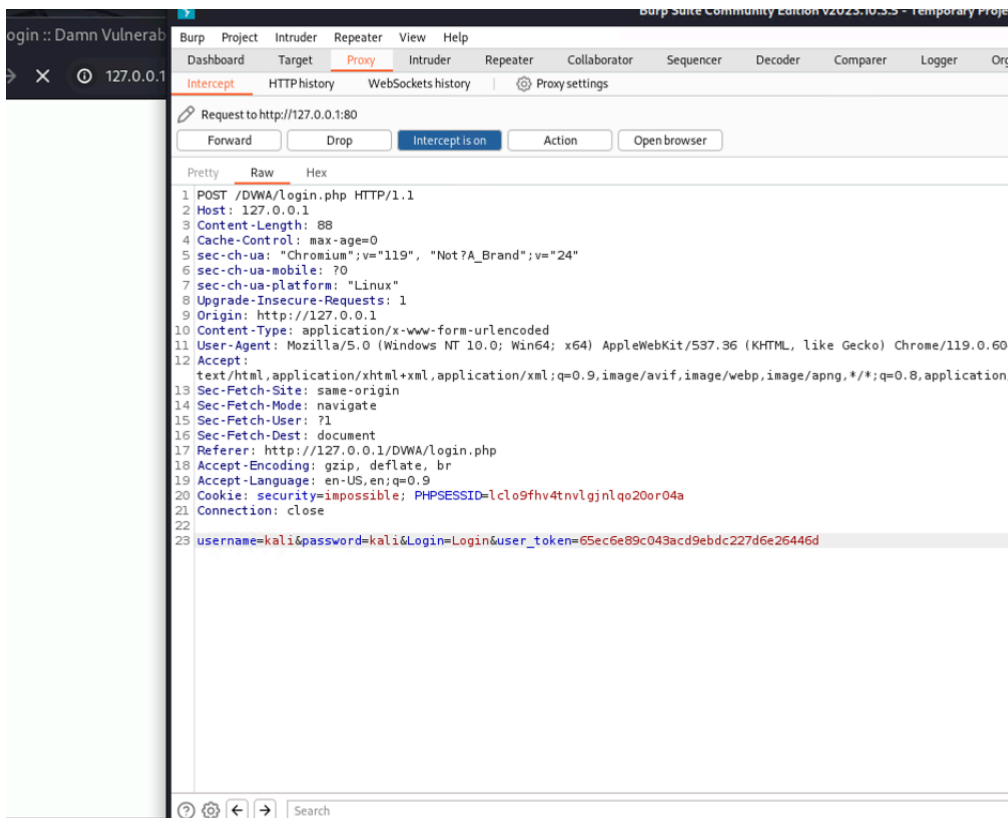
^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit      ^R Read File  ^_ Replace    ^U Paste      ^J Justify    ^_/ Go To Line
```

1.5. Creazione database e verifica funzionamento DVWA




1.6. Apertura Burpsuite e intercettazione comunicazioni









Burp Project Intruder Repeater View Help
 Dashboard Target Proxy Intruder **Repeater** Collaborator Sequencer Decoder Comparer Logger Organizer Extensior

1 x 13 x +

Send  Cancel < >


Request
 Pretty Raw Hex  In 


1 POST /DWA/login.php HTTP/1.1
 2 Host: 127.0.0.1
 3 User-Agent: Mozilla/5.0 (X11; Linux aarch64; rv:109.0) Gecko/20100101 Firefox/115.0
 4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
 5 Accept-Language: en-US,en;q=0.5
 6 Accept-Encoding: gzip, deflate, br
 7 Content-Type: application/x-www-form-urlencoded
 8 Content-Length: 83
 9 Origin: http://127.0.0.1
 10 Connection: close
 11 Referer: http://127.0.0.1/DWA/login.php
 12 Cookie: PHPSESSID=g4uovfvsbhbilq7q5jc7aq4dnb; security=impossible
 13 Upgrade-Insecure-Requests: 1
 14 Sec-Fetch-Dest: document
 15 Sec-Fetch-Mode: navigate
 16 Sec-Fetch-Site: same-origin
 17 Sec-Fetch-User: ?1
 18
 19 username=CIA0&password=CIA0&Login=Login&user_token=988ef217a4e161c16e3fd53590cb1945

Response
 Pretty Raw Hex Render  In 

53

```
<p class="submit">
      54   <input type="submit" value="Login" name="
      55   Login">
      56   </p>
      57 </fieldset>
      58
      59 <input type='hidden' name='user_token' value=
      60 '35c70d2f307f814ee6fb38adf2dbb24b' />
      61
      62 </form>
      63
      64 <div class="message">
      65   Login failed
      66 </div>
      67
      68 <br />
      69 <br />
      70 <br />
      71 <br />
      72 <br />
      73
      74 </div>
      75 <!--<div id="content">-->
      76
      77 <div id="footer">
      78   <p>
      79     <a href="https://github.com/digininja/DWA/"
      80     target="_blank">
      81       Damn Vulnerable Web Application (DWA)
    
```

?  < > Search 0 highlights

?  < > Search 0 highlights