Report Esercizio 11/12/2024

Configurazione DVWA Leonardo Catalano

"La traccia di oggi ci chiedeva di fare una configurazione di una DVWA ovvero una damn vulnerable web application in Kali Linux. La DVWA ci sarà molto utile per i test. Bisogna andare ad installare il Database MySql e il Web Server Apache.

I comandi sono i seguenti

```
root@kali: /var/www/html/DVWA
File Actions Edit View Help
  -(kali⊛kali)-[~]
[sudo] password for kali:
               )-[/home/kali]
    cd /var/www/html
      oot@kali)-[/var/ww/html]
git clone https://github.com/digininja/DVWACloning into 'DVWA' ...
remote: Enumerating objects: 4954, done.
remote: Counting objects: 100% (114/114), done.
remote: Compressing objects: 100% (45/45), done.
remote: Total 4954 (delta 68), reused 102 (delta 61), pack-reused 4840 (from 1)
Receiving objects: 100% (4954/4954), 2.42 MiB | 4.27 MiB/s, done.
Resolving deltas: 100% (2420/2420), done.
           kali)-[/var/ww/html]
    chmod -R 777 DVWA/
         mali | -[/var/ww/html]
    cd DVWA/config
       t®kali)-[/var/www/html/DVWA/config]
    cp config.inc.php.dist config.inc.php
      oot®kali)-[/var/www/html/DVWA/config]
  nano config.inc.php
```

All'interno del file config.inc.php si deve cambiare la password utente e password con 'kali'.

```
File Actions Edit View Help
GNU nano 8.2
                                                                                                                                                                                 config.inc.php
# If you are having problems connecting to the MySQL database and all of the variables below are correct # try changing the 'db_server' variable from localhost to 127.0.0.1. Fixes a problem due to sockets.
# Thanks to @digininja for the fix.
# Database management system to use
$DBMS = getenv('DBMS') ?: 'MySQL';
#$DBMS = 'PGSQL'; // Currently disabled
 # Database variables
# WARNING: The database specified under db_database WILL BE ENTIRELY DELETED during setup.
# Please use a database dedicated to DVWA.
 # If you are using MariaDB then you cannot <mark>use</mark> root, you must <mark>use</mark> create a dedicated DVWA user.
# See README.md for more information on this.
                 README.nd for more information
array();
'db_server' ] = getenv('DB_SERVER') ?: '127.0.0.1';
'db_database' ] = getenv('DB_DATABASE') ?: 'dvwa';
'db_user' ] = getenv('DB_USER') ?: 'kali';
'db_password' ] = getenv('DB_PASSWORD') ?: 'kali';
'db_port'] = getenv('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/admin
$_DVWA[ 'recaptcha_public_key' ] = getenv('RECAPTCHA_PUBLIC_KEY') ?: '';
$_DVWA[ 'recaptcha_private_key' ] = getenv('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 either 'low', 'medium', 'high' or impossible'.
$_DVWA[ 'default_security_level' ] = getenv('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 either 'en' or 'zh'.
$_DVWA[ 'default_locale' ] = getenv('DEFAULT_LOCALE') ?: 'en';
                                         ^O Write Out
^R Read File
                                                                                 ^F Where Is
^\ Replace
                                                                                                                                                                                                                                                                                                 M-A Set Mark
M-6 Copy
                                                                                                                                                                                                                                                                                                                                           M-] To Bracket
^B Where Was
                                                                                                                           ^K Cut
^U Paste
```

Poi bisogna far partire il servizio mysql sempre in root quindi con i privilegi dell'amministratore, e poi ci andiamo a connettere al database.

```
(ract@ kali)-[/var/www/html/DVWA/config]

(ract@ kali)-[~]
    service mysql start

(roct@ kali)-[~]
    mysql -u root -p
    Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 31
Server version: 11.4.3-MariaDB-1 Debian n/a

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

Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]>
```

Ora creiamo un'utenza sul database e gli assegniamo i privilegi d'amministratore.

```
(root@ keli) -[var/www/html/DVWA/config]

cd

(root@ keli) -[~]
service mysql start

(soot@ keli) -[~]
smysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with; or \g.
Your MariaDB connection id is 31
Server version: 11.4.3-MariaDB-1 Debian n/a

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Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> create user 'kali'a'127.0.0.1' identified by 'kali';
Query OK, 0 rows affected (0.008 sec)

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

MariaDB [(none)]> exit
Bye
```

Dopo bisogna configurare il servizio apache il web server andando a modificare dei

parametri interni. e dopo lo si avvia.

```
cervice apache2 start

crost@lati)=[~]

cd /etc/php/

cost@lati)=[/etc/php]

8.2

cost@lati]=[/etc/php]

dd %.2/apache2

cd: no such file or directory: /8.2/apache2

crost@lati]=[/etc/php]

dd %.2/apache2

crost@lati]=[/etc/php/8.2/apache2]

conf.d php.ini

crost@lati]=[/etc/php/8.2/apache2]

nano php.ini

crost@lati]=[/etc/php/8.2/apache2]

service apache 2 start
apache: unrecognized service

crost@lati]=[/etc/php/8.2/apache2]

cd %.2/apache2

crost@lati]=[/etc/php/8.2/apache2]

service apache 2 start
apache: unrecognized service

crost@lati]=[~]

service apache2 start

crost@lati]=[~]

service apache2 start

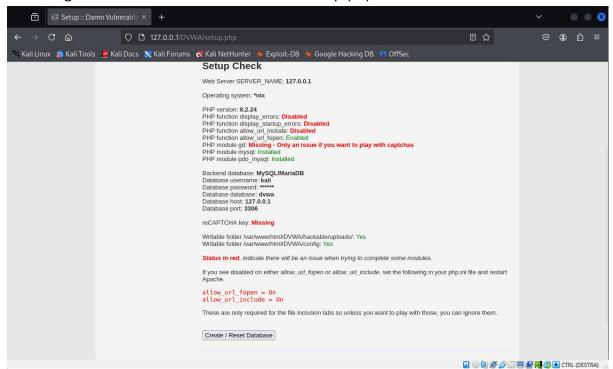
crost@lati]=[~]

service apache2 start

crost@lati]=[~]
```

```
; 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
```

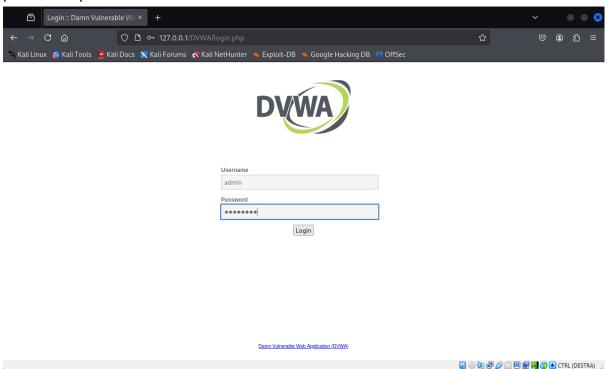
A questo punto che il server è aperto dal browser si va ad aprire una sessione con il seguente comando 127.0.0.1/DVWA/setup.php



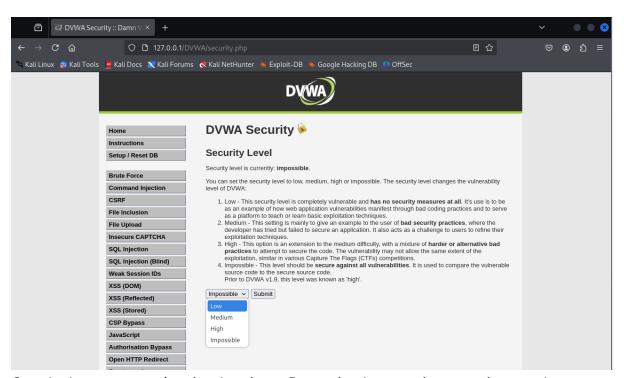
Bisogna andare a Creare/Resettare il Database, cliccando in basso Create/Reset Database.

Fatto ciò ci uscirà una finestra di login dove andremo ad inserire nome utente: admin e

password: password



Una volta entrati su DVWA Security possiamo scegliere il livello di sicurezza dell'app.



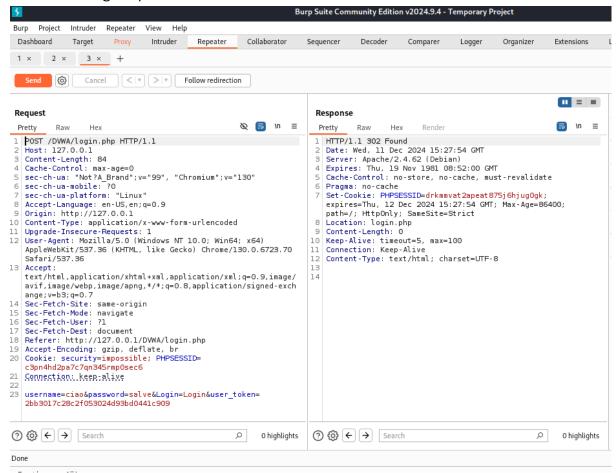
Ora che la nostra app è attiva, lanciamo Burpsuite, browser interno e inserendo l'indirizzo della nostra DVWA e inseriamo nei campi login e password i valori admin e password, intercettando la richiesta con burp andiamo a modificarla prima di inviare la richiesta.

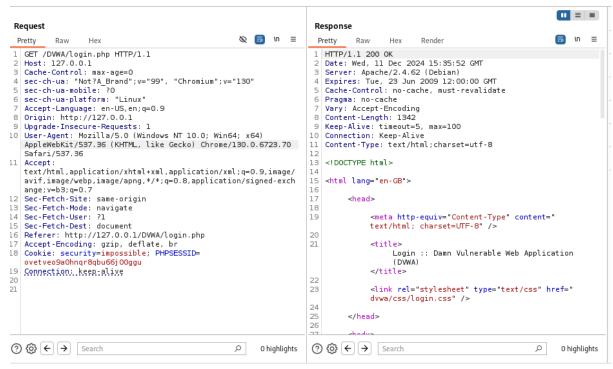


Prima:



Dopo aver modificato la richiesta la mandiamo al repeater cliccando con mouse destro e su send to repeater, nell'interfaccia repeater di Burp facciamo send per inviare la richiesta di login e poi su follow redirection.





Essendo che abbiamo modificato i dati per il login avremo infine il messaggio di risposta (http response) login failed.

