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CYSCE-270

Assignment: Lab 5 – Password cracking

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Task A – Password Cracking

Create 6 users in your Linux Terminal, then set the password for each user that meets the following

complexity requirement respectively. You should list the passwords created for each user. [6 * 5 = 30

1. For user1, the password should be a simple dictionary word (all lowercase)
2. For user2, the password should consist of 4 digits
3. For user3, the password should consist of a simple dictionary word of any length characters
(all lowercase) + digits
4. For user4, the password should consist of a simple dictionary word characters (all lowercase) +
digits +symbols
5. For user5, the password should consist of a simple dictionary word (all lowercase) + digits
6. For user6, the password should consist of a simple dictionary word (with a combination of
lower and upper case) + digits +symbols

```
esther@kali: ~  
File Actions Edit View Help  
  
└─(esther@kali)-[~]  
└─$ sudo passwd James  
New password:  
Retype new password:  
passwd: password updated successfully  
  
└─(esther@kali)-[~]  
└─$ sudo useradd peter  
  
└─(esther@kali)-[~]  
└─$ sudo passwd peter  
New password:  
Retype new password:  
passwd: password updated successfully  
  
└─(esther@kali)-[~]  
└─$ sudo useradd princess  
  
└─(esther@kali)-[~]  
└─$ sudo passwd princess  
New password:  
Retype new password:  
passwd: password updated successfully
```

```
esther@kali: ~  
File Actions Edit View Help  
  
└─$ sudo passwd princess  
New password:  
Retype new password:  
passwd: password updated successfully  
  
└─(esther@kali)-[~]  
└─$ sudo useradd micheal  
  
└─(esther@kali)-[~]  
└─$ sudo passwd micheal  
New password:  
Retype new password:  
passwd: password updated successfully  
  
└─(esther@kali)-[~]  
└─$ sudo useradd Emma  
  
└─(esther@kali)-[~]  
└─$ sudo passwd Emma  
New password:  
Retype new password:  
passwd: password updated successfully
```

```
(esther@kali)-[~]
└─$ sudo useradd Kate

(esther@kali)-[~]
└─$ sudo passwd Kate
New password:
Retype new password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
passwd: password unchanged

(esther@kali)-[~]
└─$ sudo passwd Kate
New password:
Retype new password:
passwd: password updated successfully
```

Export/save above users' hashes into a file named xxx.hash (replace xxx with your MIDAS name) and use John the Ripper tool to crack their passwords in wordlist mode (use rockyou.txt).

```
File Actions Edit View Help
└─$ cat eLawa001.hash
James:$y$j9T$UduvzR7WFAUGDH7t2VqqV/$bjzwGufzTNZeU41o7gp8bS5e3NSiGh6UXici9Zzdf
N1:19892:0:99999:7:::
peter:$y$j9T$AV1IDxGPMt1gXRsrB EZjJ.$MMDubej5ig8T2oSbAodCGI3W870gjXSK/jd9pqGHA
T7:19892:0:99999:7:::
princess:$y$j9T$JG0vJx3Seut0sXAgSj6k7/$aWWed5WdMPbSwpFTcLlwwXIEfB8eE/Oby6Zx/A
lk/Q7:19892:0:99999:7:::
nicheal:$y$j9T$b0jZgZZKvEAKZ6b9bg/A50$KxGYVj0FjS9ezq67TwI/5bY0LpUJkaeFwBh3nMm
et17:19892:0:99999:7:::
Emma:$y$j9T$i6K.lpYU04uV9a6SYNwCW1$ZT.sWMun0u9xEkPp1MV0Xk9NB8t4XcDcbNY1pKMudq
5:19892:0:99999:7:::
Kate:$y$j9T$SGVZjhJDpTor1hUy7plVq1$rf.hzCpRz4QdngX88cKUCd3U0.mZwdIJPNW4JbNZgE
/:19892:0:99999:7:::
```

```
esther@kali: ~  
File Actions Edit View Help  
└─$ john --format=crypt elawa001.hash --wordlist=rockyou.txt  
Using default input encoding: UTF-8  
Loaded 6 password hashes with 6 different salts (crypt, generic crypt(3) [?/6  
4])  
Cost 1 (algorithm [1:descript 2:md5crypt 3:sunmd5 4:bcrypt 5:sha256crypt 6:sh  
a512crypt]) is 0 for all loaded hashes  
Cost 2 (algorithm specific iterations) is 1 for all loaded hashes  
Press 'q' or Ctrl-C to abort, almost any other key for status  
0g 0:00:09:56 0.03% (ETA: 2024-07-11 18:04) 0g/s 8.365p/s 50.51c/s 50.51C/s c  
hristina1..elsalvador  
0g 0:00:10:20 0.03% (ETA: 2024-07-11 19:09) 0g/s 8.353p/s 50.89c/s 50.89C/s c  
haparrita..ilovetim  
0g 0:00:10:22 0.03% (ETA: 2024-07-11 10:30) 0g/s 8.486p/s 50.91c/s 50.91C/s h  
oneybunch..ginuwine  
0g 0:00:12:31 0.04% (ETA: 2024-07-11 21:56) 0g/s 8.305p/s 49.95c/s 49.95C/s J  
oshua..marilu  
0g 0:00:12:38 0.04% (ETA: 2024-07-12 03:18) 0g/s 8.226p/s 49.86c/s 49.86C/s J
```

```
(esther@kali)-[~]  
└─$ john --show elawa001.hash  
0 password hashes cracked, 0 left
```

