

Password Cracking Assignment

Ubuntu

Overview:

This project's purpose is to display your experience with using the john-the-ripper function in ubuntu to help break passwords. I have created five designated accounts and created different types of passwords for each. Afterwards, I used the tail and hash functions to compile the passwords and users into one hash (Samiraminzay2002.hash). After waiting ten minutes, I plugged the program to see what passwords were cracked and which ones weren't.

Users Names & User passwords:

In this project, I have added five new users. Jim, Reed, Ouse, House, Karim , And Sameer. After adding these users, I have created different types of passwords for each user. Jim's password contains a simple dictionary word (same). Reed's simple password contains four simple digits (1234). Ouse's simple password contains a simple dictionary word and digits (house123). House's simple password contains a simple dictionary word with digits and a symbol (phone123&). Karim's simple password contains a simple dict word and digits (car123). Sameer's simple password contains a simple dictionary word, upper and lower cases, digits, and symbols (ComPutEr123\$).

Step One (Create Users):

```
samir@samin002:~$ sudo useradd jim  
[sudo] password for samir:  
samir@samin002:~$ sudo useradd reed  
samir@samin002:~$ sudo useradd ouse  
samir@samin002:~$ sudo useradd house  
samir@samin002:~$ sudo useradd karim  
samir@samin002:~$ sudo useradd sameer
```

Step Two (Create Passwords):

```
samir@samin002:~$ sudo passwd jim  
New password:  
Retype new password:  
passwd: password updated successfully  
samir@samin002:~$ sudo passwd reed  
New password:  
Retype new password:  
passwd: password updated successfully  
samir@samin002:~$ sudo passwd ouse  
New password:  
Retype new password:  
passwd: password updated successfully  
samir@samin002:~$ sudo passwd house  
New password:  
Retype new password:  
passwd: password updated successfully  
samir@samin002:~$ sudo passwd karim  
New password:  
Retype new password:  
passwd: password updated successfully  
samir@samin002:~$ sudo passwd sameer  
New password:  
Retype new password:  
passwd: password updated successfully  
samir@samin002:~$
```

Step Three (Hash Function):

```
samir@samin002:~$ tail -6 /etc/passwd
jim:x:1006:1008:~/home/jim:/bin/sh
reed:x:1007:1009:~/home/reed:/bin/sh
ouse:x:1008:1010:~/home/ouse:/bin/sh
house:x:1009:1011:~/home/house:/bin/sh
karim:x:1010:1012:~/home/karim:/bin/sh
sameer:x:1011:1013:~/home/sameer:/bin/sh
samir@samin002:~$
```

Step Four (Hash Function):

```
samir@samin002:~$ sudo tail -6 /etc/shadow > Samiraminzay2002.hash
samir@samin002:~$ cat Samiraminzay2002.hash
jim:$6$VQxQxCeXd.2Qx6xE50wck01dLtleljgQ8ZH8JkN1TtN34rEWIFxt8riGFZBthrXfXasy1l.ThvSkyPSkyjuKdjVVnVBWxRtsc5RBrt.:19298:0:99999:7:::
reed:$6$AetF1dmWolkuvliM$T8x9vU6chSUX5Nlx0G57DiKEMZVdYt21hB8bpFV30FbnLXZWP4/Ju1kKzbwp5jK0JUIPmVH706cQLGJXnD.4H.:19298:0:99999:7:::
ouse:$6$FR2vNnju1hHyrzG3$lgjj49Yy3K49AhhzLLh55Z2gLVYWPvIdzM8pxiWFI4NoRW9RNLcxzEN350p0NVtbIjCbwB.DgMMn9k1YN4REC0:19298:0:99999:7:::
house:$6$V5DvpEW607HMqHY/$wdLBHA2/LqxQ7BDwfk4xUa2Qq9UyR/tkS6ASSs1VB5URsLKf.qZvtG3QChvzB2REzwGJLRDq/USzghqeU6Q99/:19298:0:99999:7:::
karim:$6$XXV1/mGwCCQ2uo6v$JBvLXb81kQ8NKATGyx1oU1pezSICENGzDhvBrxhRjVGHk.Bna0Q9UEuU9tQ8SH1VILCGk1y76.qCsdzsrwGW.:19298:0:99999:7:::
sameer:$6$S6LJo5FnpRgnZIXZ$/1V/RpVo6TBnezpTZU/1Fs6K3k9bk2w3j.yyvD51FoUuSHGkPK2FU3LG62LML023PYVlae.lUvY3bqKADHeL9.:19298:0:99999:7:::
samir@samin002:~$
```

Step Five (Passwords Hacked):

```
decrypt/encrypt/decryptcode/decrypt
samir@samin002:~$ sudo john --format=crypt Samiraminzay2002.hash --wordlist=rockyou.txt
[sudo] password for samir:
sudo: john: command not found
samir@samin002:~$ sudo john --format=crypt Samiraminzay2002.hash --wordlist=rockyou.txt
Loaded 6 password hashes with 6 different salts (crypt, generic crypt(3) [?/64])
Remaining 3 password hashes with 3 different salts
Press 'q' or Ctrl-C to abort, almost any other key for status
g

q
0g 0:00:11:38 0% 0g/s 154.1p/s 462.7c/s 462.7C/s amadeus1..TYSON
Session aborted
samir@samin002:~$ sudo john --show Samiraminzay2002.hash
reed:1234:19298:0:99999:7:::
ouse:house123:19298:0:99999:7:::
karim:car123:19298:0:99999:7:::

3 password hashes cracked, 3 left
samir@samin002:~$
```