

Lab - Password Cracking

- b. At the command prompt, enter the following command :

```
cisco@ubuntu:~/Downloads/john-1.8.0/run$ sudo ./unshadow /etc/passwd /etc/shadow > mypasswd
```

```
cisco@ubuntu:~/Downloads/john-1.8.0/run$ sudo ./unshadow /etc/passwd /etc/shadow > mypasswd
```

This command will combine the /etc/passwd file where user accounts are stored, with the /etc/shadow file where user passwords are stored, into a new file called “mypasswd”.

Step 3: Recover Passwords.

- a. Type the following command in terminal:

```
cisco@ubuntu:~/Downloads/john-1.8.0/run$ ./john --show mypasswd
```

```
cisco@ubuntu:~/Downloads/john-1.8.0/run$ ./john --show mypasswd
0 password hashes cracked, 5 left
```

As shown above, there are no cracked passwords at this point.

- b. At the command prompt, enter the following command:

```
cisco@ubuntu:~/Downloads/john-1.8.0/run$ ./john --wordlist=password.lst --rules mypasswd --format=crypt
```

```
cisco@ubuntu:~/Downloads/john-1.8.0/run$ ./john --wordlist=password.lst --rules mypasswd --format=crypt
```

The program, John the Ripper, uses a predefined dictionary called **password.lst** with a standard set of predefined “rules” for handling the dictionary and retrieves all password hashes of both md5crypt and crypt type.

The results below display the passwords for each account.

```
Loaded 8 password hashes with 8 different salts (crypt, generic crypt(3) [?/64])
Press 'q' or Ctrl-C to abort, almost any other key for status
password1      (Eric)
12345          (Bob)
123456         (Alice)
password      (cisco)
password      (Eve)
5g 0:00:20:50 100% 0.003998g/s 125.4p/s 376.6c/s 376.6C/s Tnting..Ssing
Use the "--show" option to display all of the cracked passwords reliably
Session completed
```

- c. At the command prompt, enter the following command:

```
cisco@ubuntu:~/Downloads/john-1.8.0/run$ ./john --show mypasswd
```

```
cisco@ubuntu:~/Downloads/john-1.8.0/run$ ./john --show mypasswd
cisco:password:1000:1000:Cisco,,,:/home/cisco:/bin/bash
Alice:123456:1001:1001:./home/Alice:
Bob:12345:1002:1002:./home/Bob:
Eve:password:1003:1003:./home/Eve:
Eric:password1:1004:1004:./home/Eric:

5 password hashes cracked, 3 left
cisco@ubuntu:~/Downloads/john-1.8.0/run$
```

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How many passwords were cracked?

References

John the Ripper: <http://www.openwall.com/john/>