

User 1

Password: dog

User 2

Password: 2002

User 3

Password: map9

User 4

Password: robot1@

User 5

Password: catdog1997

User 6

Password: Gallon7\$

```
Terminal - student@kali.example.com: ~
File Edit View Terminal Tabs Help
(student@kali.example.com)-[~]
$ sudo useradd user1

(student@kali.example.com)-[~]
$ sudo useradd user2

(student@kali.example.com)-[~]
$ sudo useradd user3

(student@kali.example.com)-[~]
$ sudo useradd user4

(student@kali.example.com)-[~]
$ sudo useradd user5

(student@kali.example.com)-[~]
$ sudo useradd user6

(student@kali.example.com)-[~]
$ sudo passwd user1
New password:
Retype new password:
passwd: password updated successfully
```

```
Terminal - student@kali.example.com: ~
File Edit View Terminal Tabs Help
(student@kali.example.com)-[~]
$ sudo passwd user2
New password:
Retype new password:
passwd: password updated successfully

(student@kali.example.com)-[~]
$ sudo passwd user3
New password:
Retype new password:
passwd: password updated successfully

(student@kali.example.com)-[~]
$ sudo passwd user4
New password:
Retype new password:
passwd: password updated successfully

(student@kali.example.com)-[~]
$ sudo passwd user5
New password:
Retype new password:
passwd: password updated successfully
```

Part 2

```
Terminal - student@kali.example.com: ~
File Edit View Terminal Tabs Help
(student@kali.example.com)-[~]
$ sudo getent shadow | grep "user[1-6]" > dsmit070.hash

(student@kali.example.com)-[~]
$ cat dsmit070.hash
user1:$y$j9T$N34AMumWx18g86DKxTul41$Yw6IXlbTNm4yt.RX7Xie1ZvaPk0qMuzIAZiUaLpEP5C:20062:0:99999:7:::
user2:$y$j9T$AW6ZAUZOn57DFYrput7BN/$iG6GyMyn115jpEG0B4YK4xjgoUbH28Qt9gVh.iLhWE7:20062:0:99999:7:::
user3:$y$j9T$hs8ccJ2DJUTih0lElqftD/$djISA34np/.wrjjDOLqZ3AtPof.qVpjfppZdnfNB8K9:20062:0:99999:7:::
user4:$y$j9T$1q70SH31VcHL79Fuf/hS4/$h8lJ7z5AY5chQT9vqqSUPJCGxzsZ.5H0VgY.mFqMfW/:20062:0:99999:7:::
user5:$y$j9T$E4viJvOU80Pr1vsulX5bc.$7cAni2AfVxmAzUWMSyGNfp7G2/22HmTq1KwRZutCo7A:20062:0:99999:7:::
user6:$y$j9T$AteewZcsoP7WLPsXysatS0$soyszkcs10b4sKEyalJHmolAjj7B.pn4wNxxqvU2ik.qD:20062:0:99999:7:::

(student@kali.example.com)-[~]
$ locate rockyou.txt.gz
/usr/share/wordlists/rockyou.txt.gz

(student@kali.example.com)-[~]
$ pwd
/home/student
```

```

(student@kali.example.com)-[~]
$ sudo cp /usr/share/wordlists/rockyou.txt.gz /home/student/

(student@kali.example.com)-[~]
$ ls -l
total 188808
drwxr-xr-x 2 student student 4096 Nov 21 17:45 Desktop
drwxr-xr-x 2 student student 4096 Nov 21 17:45 Documents
drwxr-xr-x 2 student student 4096 Nov 21 17:45 Downloads
drwxr-xr-x 2 student student 4096 Nov 21 17:45 Music
drwxr-xr-x 2 student student 4096 Nov 21 17:45 Pictures
drwxr-xr-x 2 student student 4096 Nov 21 17:45 Public
drwxr-xr-x 2 student student 4096 Nov 21 17:45 Templates
drwxr-xr-x 2 student student 4096 Nov 21 17:45 Videos
-rw-r--r-- 1 student student 5183 Dec 3 07:28 copyright_cyse270
drwxrwxr-x 2 student student 4096 Dec 3 05:23 data
-rw-rw-r-- 1 student student 594 Dec 5 08:10 dsmit070.hash
-rw-r--r-- 1 student student 139921507 Dec 5 06:54 rockyou.txt
-rw-r--r-- 1 root root 53357329 Dec 5 08:19 rockyou.txt.gz
-rw-r----- 1 root root 2282 Dec 5 06:58 shadow
-rw-rw-r-- 1 student student 2282 Dec 5 06:59 test.txt
-rw-rw-r-- 1 student 1004 0 Dec 5 05:37 testfile
drwx----- 1 student student 0 Dec 5 08:05 thinclient_drives

```

```

(student@kali.example.com)-[~]
$ sudo cat shadow > test.txt

(student@kali.example.com)-[~]
$ ls -l
total 188808
drwxr-xr-x 2 student student 4096 Nov 21 17:45 Desktop
drwxr-xr-x 2 student student 4096 Nov 21 17:45 Documents
drwxr-xr-x 2 student student 4096 Nov 21 17:45 Downloads
drwxr-xr-x 2 student student 4096 Nov 21 17:45 Music
drwxr-xr-x 2 student student 4096 Nov 21 17:45 Pictures
drwxr-xr-x 2 student student 4096 Nov 21 17:45 Public
drwxr-xr-x 2 student student 4096 Nov 21 17:45 Templates
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-rw-r--r-- 1 student student 5183 Dec 3 07:28 copyright_cyse270
drwxrwxr-x 2 student student 4096 Dec 3 05:23 data
-rw-rw-r-- 1 student student 594 Dec 5 08:10 dsmit070.hash
-rw-r--r-- 1 student student 139921507 Dec 5 06:54 rockyou.txt
-rw-r--r-- 1 root root 53357329 Dec 5 08:19 rockyou.txt.gz
-rw-r----- 1 root root 2282 Dec 5 08:21 shadow
-rw-rw-r-- 1 student student 2282 Dec 5 08:23 test.txt
-rw-rw-r-- 1 student 1004 0 Dec 5 05:37 testfile
drwx----- 1 student student 0 Dec 5 08:05 thinclient_drives

```

```
(student@kali.example.com)-[~]
$ gunzip rockyou.txt.gz
gzip: rockyou.txt already exists; do you wish to overwrite (y or n)? n
not overwritten

(student@kali.example.com)-[~]
$ cat rockyou.txt | head -10
123456
12345
123456789
password
iloveyou
princess
1234567
rockyou
12345678
abc123

(student@kali.example.com)-[~]
$ sudo cp /etc/shadow /home/student/

(student@kali.example.com)-[~]
$ ls -l
total 188808
```

```
Terminal - student@kali.example.com: ~
File Edit View Terminal Tabs Help

(student@kali.example.com)-[~]
$ cat test.txt
root:*:19691:0:99999:7:::
daemon:*:19691:0:99999:7:::
bin:*:19691:0:99999:7:::
sys:*:19691:0:99999:7:::
sync:*:19691:0:99999:7:::
games:*:19691:0:99999:7:::
man:*:19691:0:99999:7:::
lp:*:19691:0:99999:7:::
mail:*:19691:0:99999:7:::
news:*:19691:0:99999:7:::
uucp:*:19691:0:99999:7:::
proxy:*:19691:0:99999:7:::
www-data:*:19691:0:99999:7:::
backup:*:19691:0:99999:7:::
list:*:19691:0:99999:7:::
irc:*:19691:0:99999:7:::
_apt:*:19691:0:99999:7:::
nobody:*:19691:0:99999:7:::
systemd-network:!:19691::::::
messagebus:!:19691::::::
tcpdump:!:19691::::::
```

Part 3

```
(student@kali.example.com)-[~]  
$ sudo john --format=crypt test.txt --wordlist=/home/student/rockyou.txt  
Using default input encoding: UTF-8  
Loaded 9 password hashes with 9 different salts (crypt, generic crypt(3) [?/64])  
Remaining 6 password hashes with 6 different salts  
Cost 1 (algorithm [1:descrypt 2:md5crypt 3:sunmd5 4:bcrypt 5:sha256crypt 6:sha512crypt]) is 0 for all loaded hashes  
Cost 2 (algorithm specific iterations) is 1 for all loaded hashes  
Will run 2 OpenMP threads  
Press 'q' or Ctrl-C to abort, almost any other key for status  
0g 0:00:10:20 0.05% (ETA: 2024-12-19 19:47) 0g/s 13.76p/s 83.20c/s 83.20C/s afonso..brigitte  
Session aborted  
  
(student@kali.example.com)-[~]  
$ john --show dsmit070.hash  
0 password hashes cracked, 0 left
```