

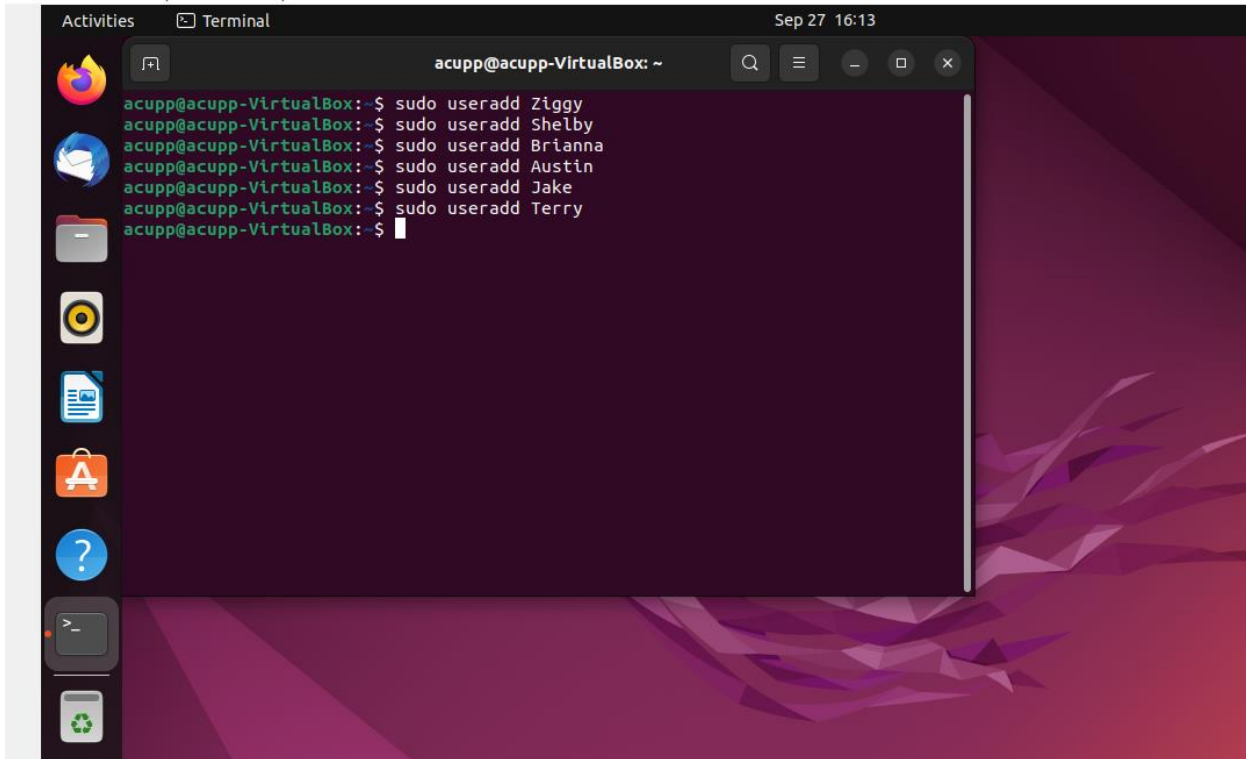
Austin Cupp

10/02/2023

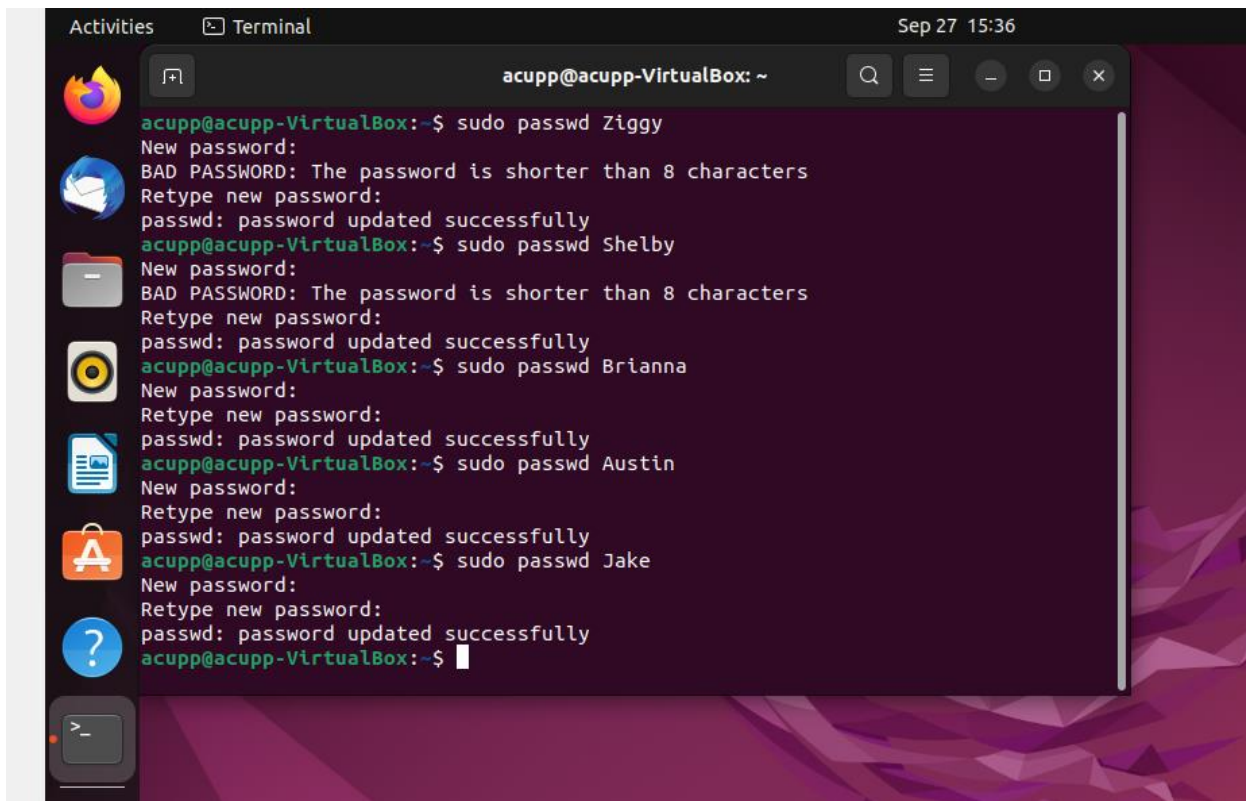
Professor Vatsa

CYSE 270

### Assignment #5



Step 1: used sudo useradd to add 6 users.



Step 1 continued: used sudopasswd USER to add a password to each account. The passwords are

Ziggy: love

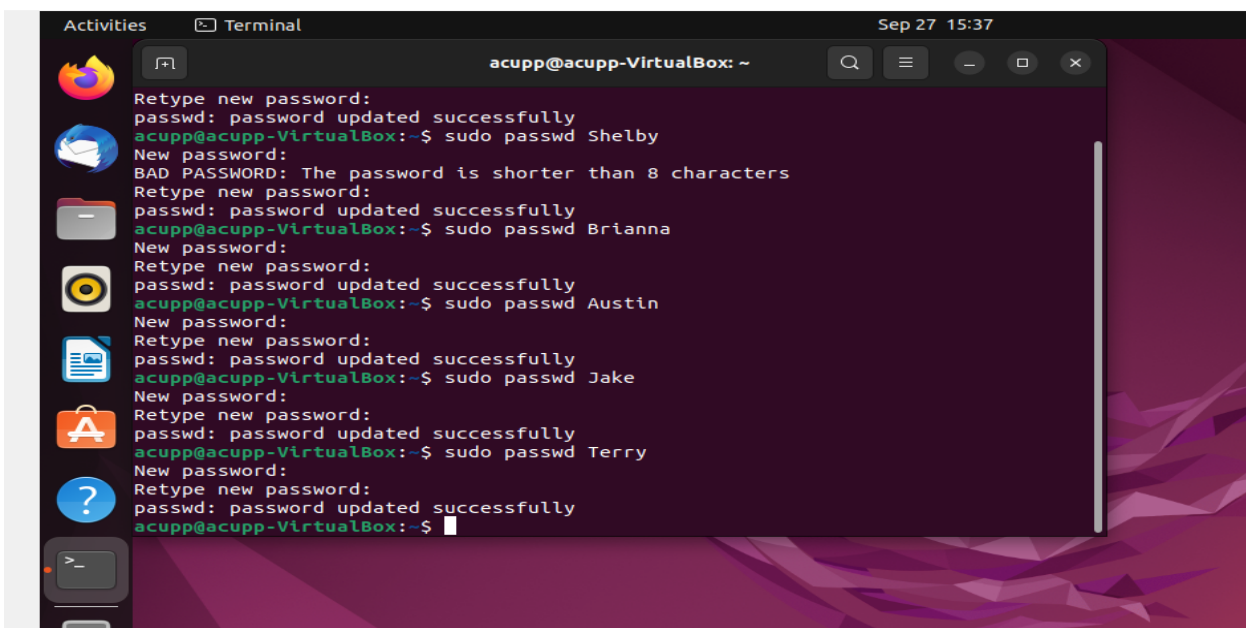
Shelby: 2019

Brianna: iloveyou2017

Austin: nova\$1969

Jake: kitten2009

Terry: Ar!Z0nA1971



```
Activities Terminal Sep 27 16:29
acupp@acupp-VirtualBox: ~
passwd: password updated successfully
acupp@acupp-VirtualBox:~$ sudo passwd Austin
New password:
Retype new password:
passwd: password updated successfully
acupp@acupp-VirtualBox:~$ sudo passwd Jake
New password:
Retype new password:
passwd: password updated successfully
acupp@acupp-VirtualBox:~$ sudo passwd Terry
New password:
Retype new password:
passwd: password updated successfully
acupp@acupp-VirtualBox:~$ sudo tail -6 /etc/shadow > acupp001.hash
acupp@acupp-VirtualBox:~$ ls
acupp001.hash Desktop Hob0Rules Pictures snap
copyright_cyse270 Documents home Public Templates
data Downloads Music rockyou.txt Videos
```

Step 2: used `sudo tail -6 /etc/shadow > acupp001.hash` to export the users hashes into a file named `acupp001.hash`

```
Activities Terminal Sep 27 15:55
acupp@acupp-VirtualBox: ~
acupp@acupp-VirtualBox:~$ gunzip rockyou.txt.gz
acupp@acupp-VirtualBox:~$ ls
acupp001.hash Desktop Hob0Rules Pictures snap
copyright_cyse270 Documents home Public Templates
data Downloads Music rockyou.txt Videos
```

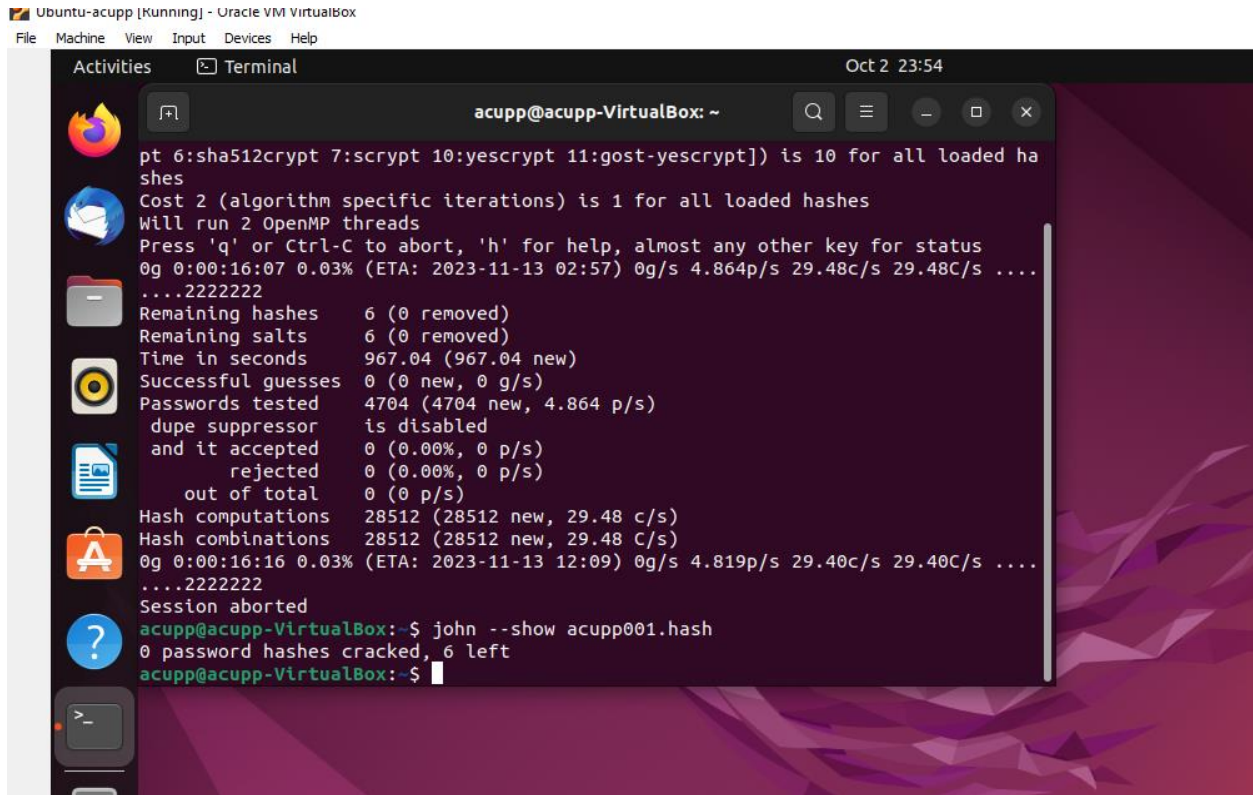
Downloading john the ripper

```
Activities Terminal Sep 27 16:31
acupp@acupp-VirtualBox: ~
acupp@acupp-VirtualBox:~$ cat acupp001.hash
Ziggy:$y$j9T$CIid50p4HiUu9Mi5mJy/D1$cl3Nv4.dV/yJWZTqY0G8GRBgpKGWMMRQT8CdQ5u8an4:
19627:0:99999:7:::
Shelby:$y$j9T$Hc41nRTgZWM26ZQtjGKMG.$N0Uz7dBz2VhLE6pYxM84Rdhuv9E9LEj2C.0ZGxrc3cC
:19627:0:99999:7:::
Brianna:$y$j9T$WHB4/VUuwdZeB3MhkUmyD.$Xcn0Vwumv2FEwVpGeMY02sLVRQwunufNdfT31FggpL
A:19627:0:99999:7:::
Austin:$y$j9T$9rJS0Jl8D9c1ZjNDCCP3U0$dL9Uuo8BCFDWEoHYa/s7woPGLjpkU28E5m.fQZAZCl0
:19627:0:99999:7:::
Jake:$y$j9T$JLop.4mMw0ipn2TnsAPON0$fL7rgTa2doCY/uJq4f8tQp0THuML/9wVg5HeLNJX9y6:1
9627:0:99999:7:::
Terry:$y$j9T$IDLIIW3UuoJfJ1snRTU.$t5KcXTFuLLzvzbPpwgid8uVQFXVEWmkHaQadPHKCE93:
19627:0:99999:7:::
acupp@acupp-VirtualBox:~$
```

Hashes present in file

```
Activities Terminal Oct 1 13:13
acupp@acupp-VirtualBox: ~
Session aborted
acupp@acupp-VirtualBox:~$ cat acupp001.hash
Ziggy:$y$j9T$CIid50p4HiUu9Mi5mJy/D1$cl3Nv4.dV/yJWZTqY0G8GRBgpKGWMMRQT8CdQ5u8an4:
19627:0:99999:7:::
Shelby:$y$j9T$Hc41nRTgZWM26ZQtjGKMG.$N0Uz7dBz2VhLE6pYxM84Rdhuv9E9LEj2C.0ZGxrc3cC
:19627:0:99999:7:::
Brianna:$y$j9T$WHB4/VUuwdZeB3MhkUmyD.$Xcn0Vwumv2FEwVpGeMY02sLVRQwunufNdfT31FggpL
A:19627:0:99999:7:::
Austin:$y$j9T$9rJS0Jl8D9c1ZjNDCCP3U0$dL9Uuo8BCFDWEoHYa/s7woPGLjpkU28E5m.fQZAZCl0
:19627:0:99999:7:::
Jake:$y$j9T$JLop.4mMw0ipn2TnsAPON0$fL7rgTa2doCY/uJq4f8tQp0THuML/9wVg5HeLNJX9y6:1
9627:0:99999:7:::
Terry:$y$j9T$IDLIIW3UuoJfJ1snRTU.$t5KcXTFuLLzvzbPpwgid8uVQFXVEWmkHaQadPHKCE93:
19627:0:99999:7:::
acupp@acupp-VirtualBox:~$ john --wordlist=rockyou.txt acupp001.hash
Using default input encoding: UTF-8
Loaded 6 password hashes with 6 different salts (crypt, generic crypt(3) [?/64])
Cost 1 (algorithm [0:unknown 1:descript 2:md5crypt 3:sunmd5 4:bcrypt 5:sha256cry
pt 6:sha512crypt 7:scrypt 10:yescrypt 11:gost-yescrypt]) is 10 for all loaded ha
shes
Cost 2 (algorithm specific iterations) is 1 for all loaded hashes
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, 'h' for help, almost any other key for status
```

Step 2 continued: used john the ripper tool to attempt to crack the passwords in wordlist mode



Step 3: Unfortunately, despite loading 6 hashes, and keeping john the ripper open for over 10 minutes the passwords were not cracked.