

NETWORKING & SYSTEM ADMINISTRATION LAB

Combined Experiments

Procedure

Name: ALEN S PHILIP

Roll No: 20

Batch: RMCA- A

Date: 08/04/2022

Experiment 1

1. Login to your home directory
2. List contents of your current working directory
3. List all contents of your current working directory, including hidden files
4. Make a directory called April2022 inside your current working directory
5. Change to the directory April2022
6. Create an empty file name file1
7. Make a copy of file1 to file2
8. Copy file1 from the current working directory and save it as the name file2 in one directory up from the current directory
9. Clear the terminal window

Output

The terminal window shows a session on a host named 'allensphilip@SEC-ROG'. The user runs several commands to copy files from one directory to another:

- \$ cd ~
- \$ ls
- \$ ls -a
- \$ bash history
- \$ BurpSuite
- \$.cache
- \$.config
- \$.dbeaver4
- \$.dmrc
- \$.emacs
- \$.gtkrc-2.0
- \$.icons
- \$.lessht
- \$.local
- \$.mozilla
- \$.msf4
- \$.profile
- \$.vimrc
- \$.vscode-oss
- \$.xauthority
- \$.xsession
- \$.xsession-errors
- \$.xsession-errors.old
- \$.zshrc
- \$ mkdir April2022
- \$ cd April2022/
- \$ touch file1
- \$ ls
- \$ file1
- \$ file1 file2
- \$ scp file1 file2
- \$ ls
- \$ file1 file2
- \$ scp file1 ..//file2
- \$ ls
- \$ cd ..
- \$ ls

Finally, the user runs \$ clear to clear the terminal screen.

Experiment 2

1. Login to your home directory
2. Writes the contents of syslog (located in the /var/log/ directory) onto the screen a page at a time.
3. Read documentation on a command: less

Output

```
mca@U20: ~
File Edit View Search Terminal Help
mca@U20:~/Desktop$ cd ~
mca@U20:~$ more /var/log/syslog > logfile
mca@U20:~$ less logfile
```

```
mca@U20: ~
File Edit View Search Terminal Help
Apr 8 14:06:25 U20 rsyslogd: [origin software="rsyslogd" swVersion="8.32.0" x-pid="887" x-info="http://www.rsyslog.com"] rsyslogd was HUPed
Apr 8 14:06:33 U20 dbus-daemon[891]: [system] Activating via systemd: service name='org.freedesktop.timedate1' unit='dbus-org.freedesktop.timedate1.service' requested by ':1.18' (uid=0 pid=934 comm="/usr/lib/snapd/snapd" label="unconfined")
Apr 8 14:06:33 U20 systemd[1]: Starting Time & Date Service...
Apr 8 14:06:33 U20 dbus-daemon[891]: [system] Successfully activated service 'org.freedesktop.timedate1'
Apr 8 14:06:33 U20 systemd[1]: Started Time & Date Service.
Apr 8 14:06:35 U20 snapd[934]: storehelpers.go:721: cannot refresh: snap has no updates available: "atom", "bare", "core18", "core20", "gnome-3-26-1604", "gnome-3-28-1804", "gnome-3-34-1804", "gnome-calculator", "gnome-characters", "gnome-logs", "gnome-system-monitor", "gtk-common-themes", "notepad-plus-plus", "pycharm-community", "vlc", "wine-platform-3-stable", "wine-platform-6-stable", "wine-platform-runtime"
Apr 8 14:06:42 U20 systemd-timesyncd[775]: Synchronized to time server 91.189.91.157:123 (ntp.ubuntu.com).
Apr 8 14:06:51 U20 systemd[1]: Reloading.
Apr 8 14:06:51 U20 systemd[1]: /etc/systemd/system/rc-local.service:22: Support for option SysVStartPriority= has been removed and it is ignored
Apr 8 14:06:51 U20 systemd[1]: Reloading.
Apr 8 14:06:51 U20 systemd[1]: /etc/systemd/system/rc-local.service:22: Support for option SysVStartPriority= has been removed and it is ignored
Apr 8 14:06:51 U20 systemd[1]: Mounting Mount unit for core, revision 12834...
Apr 8 14:06:51 U20 systemd[1]: Mounted Mount unit for core, revision 12834.
Apr 8 14:06:56 U20 kernel: [ 351.013737] audit: type=1400 audit(1649407016.596:63): apparmor="STATUS" operation="profile_load" profile="unconfined" name="/snap/core/12834/usr/lib/snapd/snap-confine" pid=3519 comm="apparmor_parser"
Apr 8 14:06:56 U20 kernel: [ 351.013852] audit: type=1400 audit(1649407016.596:63): apparmor="STATUS" operation="profile_load" profile="unconfined" name="/snap/core/12834/usr/lib/snapd/snap-confine//mount-namespace-capture-helper" pid=3519 comm="apparmor_parser"
Apr 8 14:06:57 U20 kernel: [ 351.849810] audit: type=1400 audit(1649407017.432:64): apparmor="STATUS" operation="profile_replace" profile="unconfined" name="snap.core.hook.configure" pid=3521 comm="apparmor_parser"
Apr 8 14:06:58 U20 kernel: [ 352.581981] audit: type=1400 audit(1649407018.164:65): apparmor="STATUS" operation="profile_replace" info="same as current profile, skipping" profile="unconfined" name="snap-update-ns.gnome-logs" pid=3524 comm="apparmor_parser"
Apr 8 14:06:58 U20 kernel: [ 352.671308] audit: type=1400 audit(1649407018.256:66): apparmor="STATUS" operation="profile_replace" info="same as current profile, skipping" profile="unconfined" name="snap-update-ns.gnome-characters" pid=3523 comm="apparmor_parser"
Apr 8 14:06:58 U20 kernel: [ 352.672067] audit: type=1400 audit(1649407018.256:67): apparmor="STATUS" operation="profile_replace" info="same as current profile, skipping" profile="unconfined" name="snap-update-ns.gnome-calculator" pid=3522 comm="apparmor_parser"
Apr 8 14:06:58 U20 kernel: [ 352.718749] audit: type=1400 audit(1649407018.300:68): apparmor="STATUS" operation="profile_replace" info="same as current profile, skipping" profile="unconfined" name="snap-update-ns.gnome-system-monitor" pid=3525 comm="apparmor_parser"
Apr 8 14:06:58 U20 kernel: [ 352.748179] audit: type=1400 audit(1649407018.332:69): apparmor="STATUS" operation="profile_replace" info="same as current profile, skipping" profile="unconfined" name="snap-update-ns.notepad-plus-plus" pid=3526 comm="apparmor_parser"
Apr 8 14:06:58 U20 kernel: [ 352.751530] audit: type=1400 audit(1649407018.336:70): apparmor="STATUS" operation="profile_replace" info="same as current profile, skipping" profile="unconfined" name="snap-update-ns.core" pid=3528 comm="apparmor_parser"
logfile
```

Experiment 3

1. Create an untitled document myfile.txt using anyone editor

2. Place the following text in myfile.txt and save it

Neo: What are you trying to tell me? That I can dodge bullets?

Morpheus: No, Neo. I'm trying to tell you that when you're ready, you won't have to.

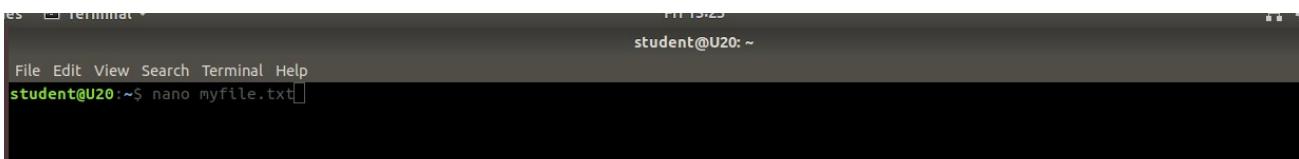
3. Count the number of characters, words, and lines in the file

4. Find the occurrence of the word “tell” in the file

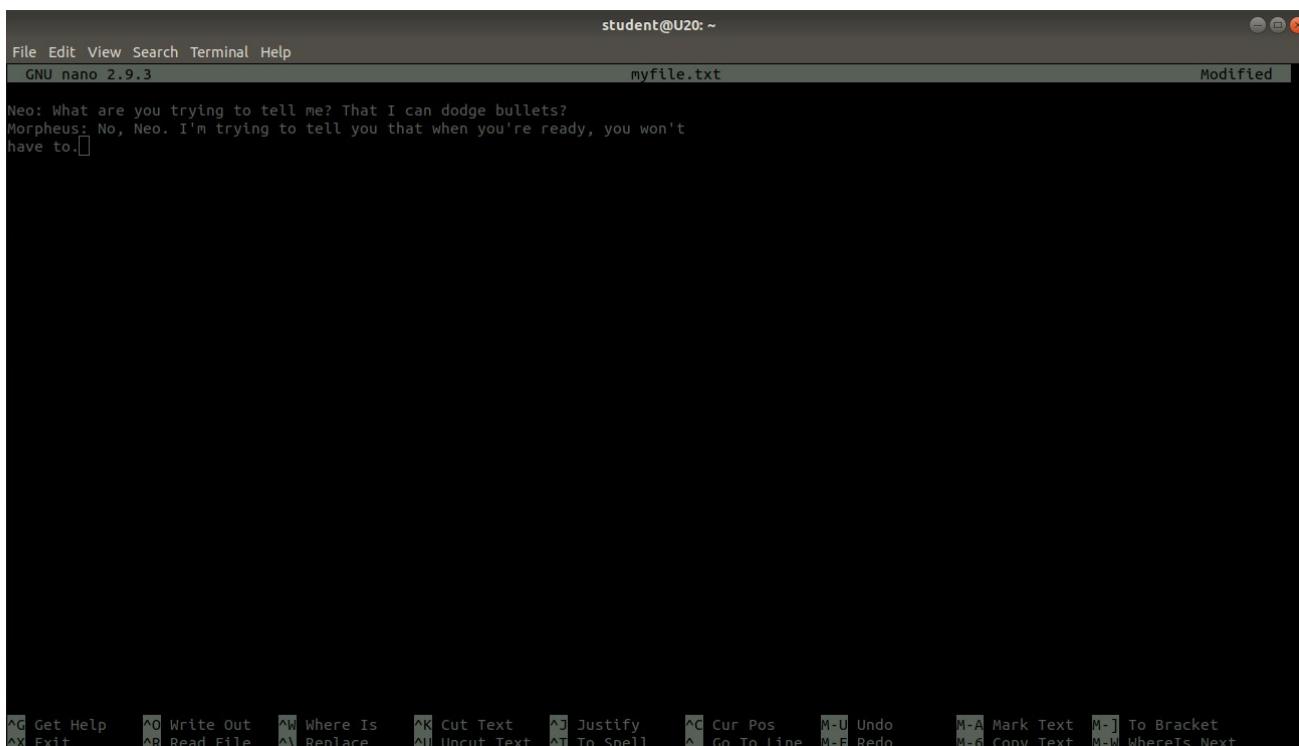
5. Make two copies of myfile.txt with names myfile1.txt and myfile2.txt

6. List all the filenames with the word file in the present working directory.

Output



```
student@U20:~$ nano myfile.txt
```



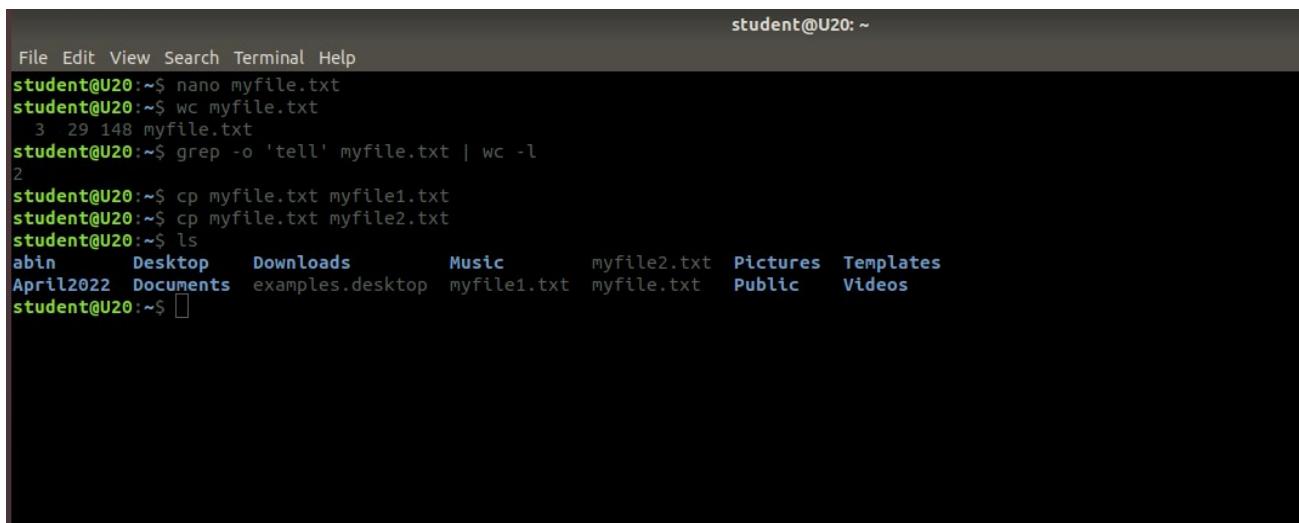
student@U20:~\$

File Edit View Search Terminal Help

GNU nano 2.9.3 myfile.txt Modified

Neo: What are you trying to tell me? That I can dodge bullets?
Morpheus: No, Neo. I'm trying to tell you that when you're ready, you won't have to.

^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos M-U Undo M-A Mark Text M-J To Bracket
^X Exit ^R Read File ^V Replace ^U Uncut Text ^T To Spell ^L Go To Line M-E Redo M-G Copy Text M-W WhereIs Next



```
student@U20:~$ nano myfile.txt
student@U20:~$ wc myfile.txt
 3 29 148 myfile.txt
student@U20:~$ grep -o 'tell' myfile.txt | wc -l
2
student@U20:~$ cp myfile.txt myfile1.txt
student@U20:~$ cp myfile.txt myfile2.txt
student@U20:~$ ls
abin Desktop Downloads Music myfile2.txt Pictures Templates
April2022 Documents examples.desktop myfile1.txt myfile.txt Public Videos
student@U20:~$
```

Experiment 4

1. Add a user named “roger
2. Create a password for the roger
3. Login using the new account.
4. Repeat step 1) to 2) to create 3 other users.
5. Examine the home directory of each user under /home/.
6. Examine the following files and see what’s added for the users/groups you created.

Try to understand the new additions

- i) /etc/passwd
- ii) /etc/shadow
- iii) /etc/group
7. Create two groups: managers, staff
8. Add roger to the “managers” group; add other users you have created to the “staff” group.
9. Add Roger to a new group called “committee”.
10. Check users and groups information and see if they are in the right groups
11. Create a new user: BBrown, Primary group: Faculty, Other groups: web-author, coordinator, Temporary password: bob (the user needs to change it when login for the first time)

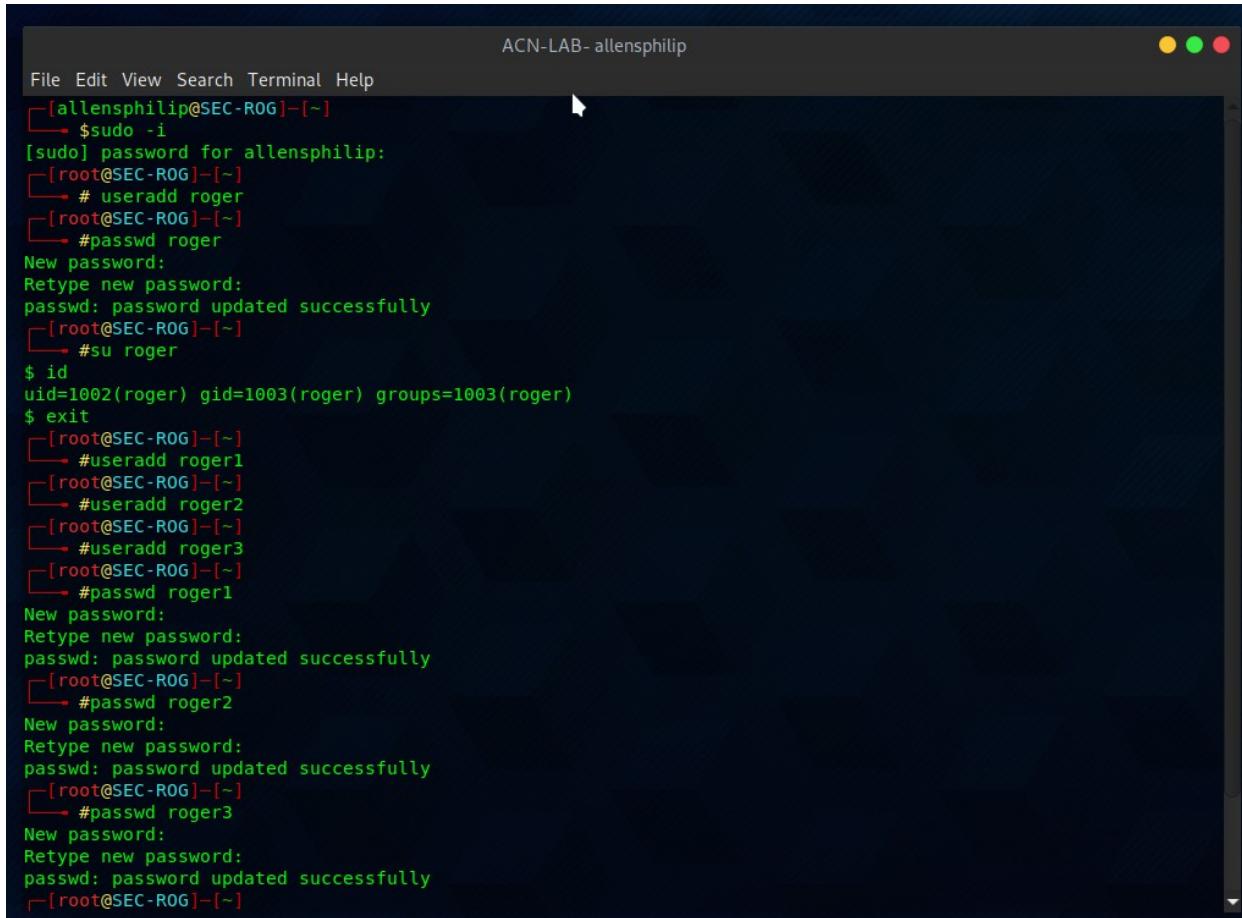
Experiment 5

1. Enable access to the remote system (IP: 192.168.6.94) without entering a password.
2. Create a file in your name in a remote system (IP: 192.168.6.94) using the terminal.
3. Learn scp command using the appropriate command. And download a file named 204Lab.txt from the remote system (IP: 192.168.6.94) to your own

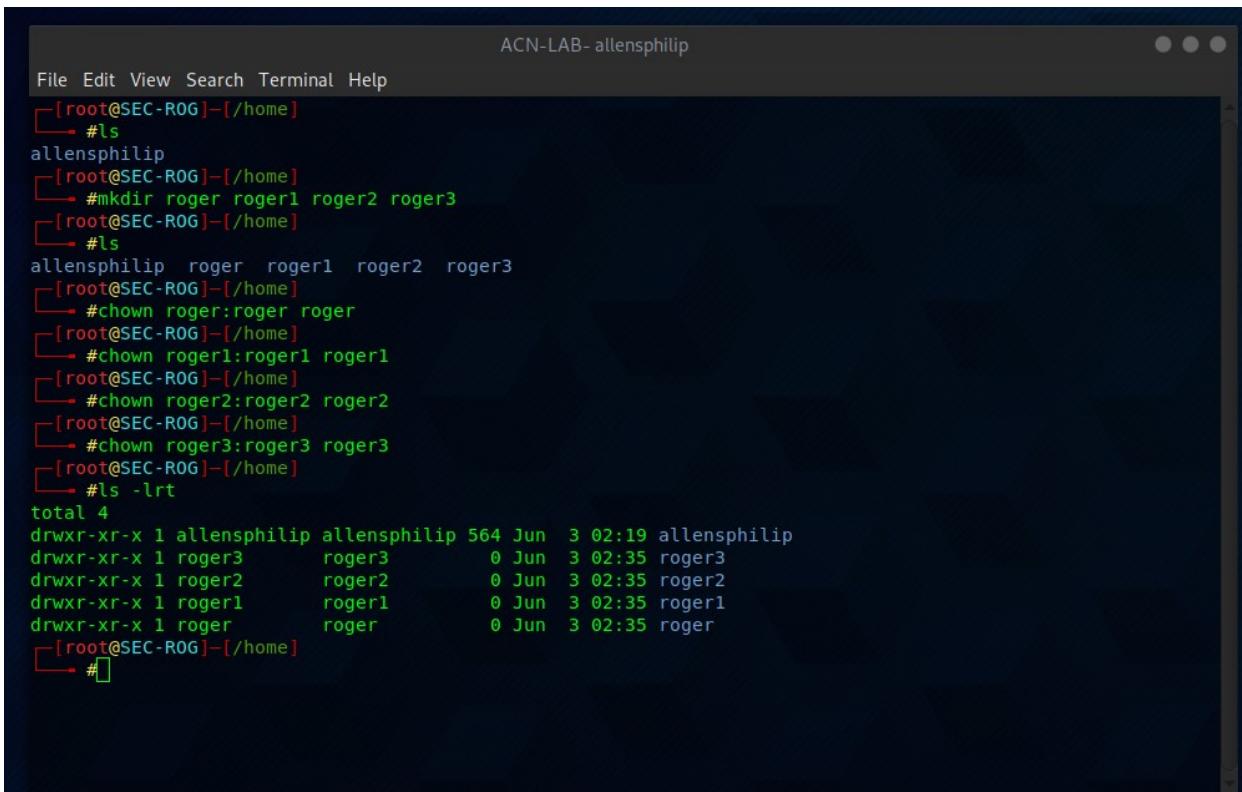
system.

Output

[1-5]



```
ACN-LAB- allensphilip
File Edit View Search Terminal Help
[allensphilip@SEC-ROG]~
└─$ sudo -i
[sudo] password for allensphilip:
[root@SEC-ROG]~
└─# useradd roger
[root@SEC-ROG]~
└─# passwd roger
New password:
Retype new password:
passwd: password updated successfully
[root@SEC-ROG]~
└─# su roger
$ id
uid=1002(roger) gid=1003(roger) groups=1003(roger)
$ exit
[root@SEC-ROG]~
└─# useradd roger1
[root@SEC-ROG]~
└─# useradd roger2
[root@SEC-ROG]~
└─# useradd roger3
[root@SEC-ROG]~
└─# passwd roger1
New password:
Retype new password:
passwd: password updated successfully
[root@SEC-ROG]~
└─# passwd roger2
New password:
Retype new password:
passwd: password updated successfully
[root@SEC-ROG]~
└─# passwd roger3
New password:
Retype new password:
passwd: password updated successfully
[root@SEC-ROG]~
```



```
ACN-LAB- allensphilip
File Edit View Search Terminal Help
[root@SEC-ROG]~/home]
└─# ls
allensphilip
[root@SEC-ROG]~/home]
└─# mkdir roger roger1 roger2 roger3
[root@SEC-ROG]~/home]
└─# ls
allensphilip roger roger1 roger2 roger3
[root@SEC-ROG]~/home]
└─# chown roger:roger roger
[root@SEC-ROG]~/home]
└─# chown roger1:roger1 roger1
[root@SEC-ROG]~/home]
└─# chown roger2:roger2 roger2
[root@SEC-ROG]~/home]
└─# chown roger3:roger3 roger3
[root@SEC-ROG]~/home]
└─# ls -lrt
total 4
drwxr-xr-x 1 allensphilip allensphilip 564 Jun 3 02:19 allensphilip
drwxr-xr-x 1 roger3 roger3 0 Jun 3 02:35 roger3
drwxr-xr-x 1 roger2 roger2 0 Jun 3 02:35 roger2
drwxr-xr-x 1 roger1 roger1 0 Jun 3 02:35 roger1
drwxr-xr-x 1 roger roger 0 Jun 3 02:35 roger
[root@SEC-ROG]~/home]
└─#
```

[6]

```
[root@SEC-ROG ~]# cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin/nologin
bin:x:2:2:bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534:/nonexistent:/usr/sbin/nologin
systemd-network:x:101:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:102:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
tss:x:103:109:TPM software stack,,,:/var/lib/tpm:/bin/false
strongswan:x:104:65534:/var/lib/strongswan:/usr/sbin/nologin
messagebus:x:105:111:/nonexistent:/usr/sbin/nologin
systemd-timesync:x:106:112:system Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
Debian-exim:x:107:113:/var/spool/exim:/usr/sbin/nologin
uuid:x:108:114:/run/uuid:/usr/sbin/nologin
debian-tor:x:109:115:/var/lib/tor:/bin/false
usbmux:x:110:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
rtkit:x:111:118:RealtimeKit,,,:/proc:/usr/sbin/nologin
xrdp:x:112:119:/run/xrdp:/usr/sbin/nologin
dnsmasq:x:113:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
avahi:x:114:121:Avahi-Daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
nm-openvpn:x:115:122:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
nm-openconnect:x:116:123:NetworkManager OpenConnect plugin,,,:/var/lib/NetworkManager:/usr/sbin/nologin
speech-dispatcher:x:117:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
pulse:x:118:125:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
saned:x:119:128:/var/lib/saned:/usr/sbin/nologin
colord:x:120:129:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:121:130:/var/lib/geoclue:/usr/sbin/nologin
lightdm:x:122:131:Light Display Manager:/var/lib/lightdm:/bin/false
allensphilip:x:123:65534:/run/sshd:/usr/sbin/nologin
sshd:x:123:65534:/run/sshd:/usr/sbin/nologin
roger:x:1002:1003::/home/roger:/bin/sh
roger1:x:1003:1004::/home/roger1:/bin/sh
roger2:x:1004:1005::/home/roger2:/bin/sh
roger3:x:1005:1006::/home/roger3:/bin/sh
```

```
[root@SEC-ROG ~]# cat /etc/shadow
root::19115:0:99999:7:::
daemon::19115:0:99999:7:::
bin::19115:0:99999:7:::
sync::19115:0:99999:7:::
games::19115:0:99999:7:::
man::19115:0:99999:7:::
lp::19115:0:99999:7:::
mail::19115:0:99999:7:::
news::19115:0:99999:7:::
uucp::19115:0:99999:7:::
proxy::19115:0:99999:7:::
www-data::19115:0:99999:7:::
backup::19115:0:99999:7:::
list::19115:0:99999:7:::
irc::19115:0:99999:7:::
gnats::19115:0:99999:7:::
nobody::19115:0:99999:7:::
_apt::19115:0:99999:7:::
systemd-network::19115:0:99999:7:::
systemd-resolve::19115:0:99999:7:::
tss::19115:0:99999:7:::
strongswan::19115:0:99999:7:::
messagebus::19115:0:99999:7:::
systemd-timesync::19115:0:99999:7:::
Debian-exim::19115:0:99999:7:::
uuid::19115:0:99999:7:::
debian-tor::19115:0:99999:7:::
usbmux::19115:0:99999:7:::
rtkit::19115:0:99999:7:::
xrdp::19115:0:99999:7:::
dnsmasq::19115:0:99999:7:::
avahi::19115:0:99999:7:::
nm-openvpn::19115:0:99999:7:::
nm-openconnect::19115:0:99999:7:::
speech-dispatcher::19115:0:99999:7:::
pulse::19115:0:99999:7:::
saned::19115:0:99999:7:::
colord::19115:0:99999:7:::
geoclue::19115:0:99999:7:::
lightdm::19115:0:99999:7:::
allensphilip::sys$9TbHAAkU89PDNToe9BgvyBs1KdPQ2r81R6cyawP0EoD1MKPkdVVJW.nf0BGc/AE6:19134:0:99999:7:::
sshd::19135:0:99999:7:::
roger:$y$9Tg$BXQBFGNa.HzXE0gVOY/$0d.HVYkRzJNlPK6tmICuTVqElirwBz08ex0SRo.x1oB:19145:0:99999:7:::
roger1:$y$9T0hCgfylxL10y053a9A05008bzAPzfHydbE/tHcm8eAzkwR/d76cpdwCe1fF9knQk/3:19145:0:99999:7:::
roger2:$y$9T1l04iyWUv.TjMthnglw3K0$8TBibeoPuZ9k.euUfZRUaQ/rAvxF0t4XfrTCGlnvgPB:19145:0:99999:7:::
roger3:$y$9Tgyc8bvDy3vcgBoCGIhtF3$cqacbymey3zKavlwed7K50NtzngVCUP08NnjUFEVrD:19145:0:99999:7:::
```

The screenshot shows a terminal window titled "ACN-LAB- allensphilip". The window has a dark theme with red, green, and yellow window control buttons at the top right. The title bar also contains the window name. The menu bar includes "File", "Edit", "View", "Search", "Terminal", and "Help". The main terminal area displays the output of the command "cat /etc/group". The output lists numerous group entries, each consisting of a name followed by a colon, a numerical ID, and a list of users separated by commas. Some groups have a leading "x" character, indicating they are not part of the main system. The user "allensphilip" appears in many of the groups. The terminal prompt at the bottom is "[root@SEC-ROG ~]#".

```
[root@SEC-ROG ~]# cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:allensphilip
tty:x:5:
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:allensphilip
fax:x:21:allensphilip
voice:x:22:
cdrom:x:24:allensphilip
floppy:x:25:allensphilip
tape:x:26:allensphilip
sudo:x:27:allensphilip
audio:x:29:pulse,allensphilip
dip:x:30:allensphilip
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:
gnats:x:41:
shadow:x:42:
utmp:x:43:
video:x:44:allensphilip
sasl:x:45:
plugdev:x:46:allensphilip
staff:x:50:
games:x:60:
users:x:100:
nogroup:x:65534:
systemd-journal:x:101:
systemd-network:x:102:
systemd-resolve:x:103:
input:x:104:
kvm:x:105:
render:x:106:
crontab:x:107:
netdev:x:108:allensphilip
tss:x:109:
ssl-cert:x:110:
messagebus:x:111:
systemd-timesync:x:112:
Debian-exim:x:113:
uuidd:x:114:
debian-tor:x:115:
ssh:x:116:
bluetooth:x:117:
rtkit:x:118:
xrdp:x:119:
vboxsf:x:120:
avahi:x:121:
nm-openvpn:x:122:
nm-openconnect:x:123:
lpadmin:x:124:allensphilip
pulse:x:125:
pulse-access:x:126:
scanner:x:127:saned,allensphilip
saned:x:128:
colord:x:129:
geoclue:x:130:
lightdm:x:131:
sgx:x:132:
docker:x:1000:allensphilip
allensphilip:x:1002:
roger:x:1003:
roger1:x:1004:
roger2:x:1005:
roger3:x:1006:
[root@SEC-ROG ~]#
```

[7]

```
ACN-LAB- allensphilip
File Edit View Search Terminal Help
[root@SEC-ROG ~]
→ #groupadd managers
[root@SEC-ROG ~]
→ #groupadd staff
[root@SEC-ROG ~]
→ #cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:allensphilip
tty:x:5:
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:allensphilip
fax:x:21:allensphilip
voice:x:22:
cdrom:x:24:allensphilip
floppy:x:25:allensphilip
tape:x:26:allensphilip
sudo:x:27:allensphilip
audio:x:29:pulse,allensphilip
dip:x:30:allensphilip
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:
gnats:x:41:
shadow:x:42:
utmp:x:43:
video:x:44:allensphilip
sasl:x:45:
```

```
ACN-LAB- allensphilip
File Edit View Search Terminal Help
systemd-resolve:x:103:
input:x:104:
kvm:x:105:
render:x:106:
crontab:x:107:
netdev:x:108:allensphilip
tss:x:109:
ssl-cert:x:110:
messagebus:x:111:
systemd-timesync:x:112:
Debian-exim:x:113:
uuidd:x:114:
debian-tor:x:115:
ssh:x:116:
bluetooth:x:117:
rtkit:x:118:
xrdp:x:119:
vboxsf:x:120:
avahi:x:121:
nm-openvpn:x:122:
nm-opencconnect:x:123:
ipadmin:x:124:allensphilip
pulse:x:125:
pulse-access:x:126:
scanner:x:127:saned,allensphilip
saned:x:128:
colord:x:129:
geoclue:x:130:
lightdm:x:131:
sgx:x:132:
docker:x:1000:allensphilip
allensphilip:x:1002:
roger:x:1003:
roger1:x:1004:
roger2:x:1005:
roger3:x:1006:
managers:x:1007:
staff:x:1008:
[root@SEC-ROG ~]
→ #
```

[8-10]

```
ACN-LAB- allensphilip
File Edit View Search Terminal Help
[root@SEC-ROG:~]# usermod -aG managers roger
[root@SEC-ROG:~]# cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:allensphilip
tty:x:5:
disk:x:6:
lxd:x:7:

render:x:100:
crontab:x:107:
netdev:x:108:allensphilip
tss:x:109:
ssl-cert:x:110:
messagebus:x:111:
systemd-timesync:x:112:
Debian-exim:x:113:
uid0d:x:114:
debian-tor:x:115:
ssh:x:116:
bluetooth:x:117:
rtkit:x:118:
xrdp:x:119:
vboxsf:x:120:
avahi:x:121:
nm-openvpn:x:122:
nm-openconnect:x:123:
lpadmin:x:124:allensphilip
pulse:x:125:
pulse-access:x:126:
scanner:x:127:saned,allensphilip
saned:x:128:
colord:x:129:
geoclue:x:130:
lightdm:x:131:
sgx:x:132:
docker:x:1000:allensphilip
allensphilip:x:1002:
roger:x:1003:
roger1:x:1004:
roger2:x:1005:
roger3:x:1006:
managers:x:1007:roger
staff:x:1008:
[root@SEC-ROG:~]# id roger
uid=1002(roger) gid=1003(roger) groups=1003(roger),1007(managers)
[root@SEC-ROG:~]#
```

```
ACN-LAB- allensphilip
File Edit View Search Terminal Help
[root@SEC-ROG:~]# usermod -aG staff roger1
[root@SEC-ROG:~]# usermod -aG staff roger2
[root@SEC-ROG:~]# usermod -aG staff roger3
[root@SEC-ROG:~]# id roger1
uid=1003(roger1) gid=1004(roger1) groups=1004(roger1),1008(staff)
[root@SEC-ROG:~]# id roger2
uid=1004(roger2) gid=1005(roger2) groups=1005(roger2),1008(staff)
[root@SEC-ROG:~]# id roger3
uid=1005(roger3) gid=1006(roger3) groups=1006(roger3),1008(staff)
[root@SEC-ROG:~]# groupadd committee
[root@SEC-ROG:~]# usermod -aG committee roger
[root@SEC-ROG:~]# id roger
uid=1002(roger) gid=1003(roger) groups=1003(roger),1007(managers),1009(committee)
```

[_11_]

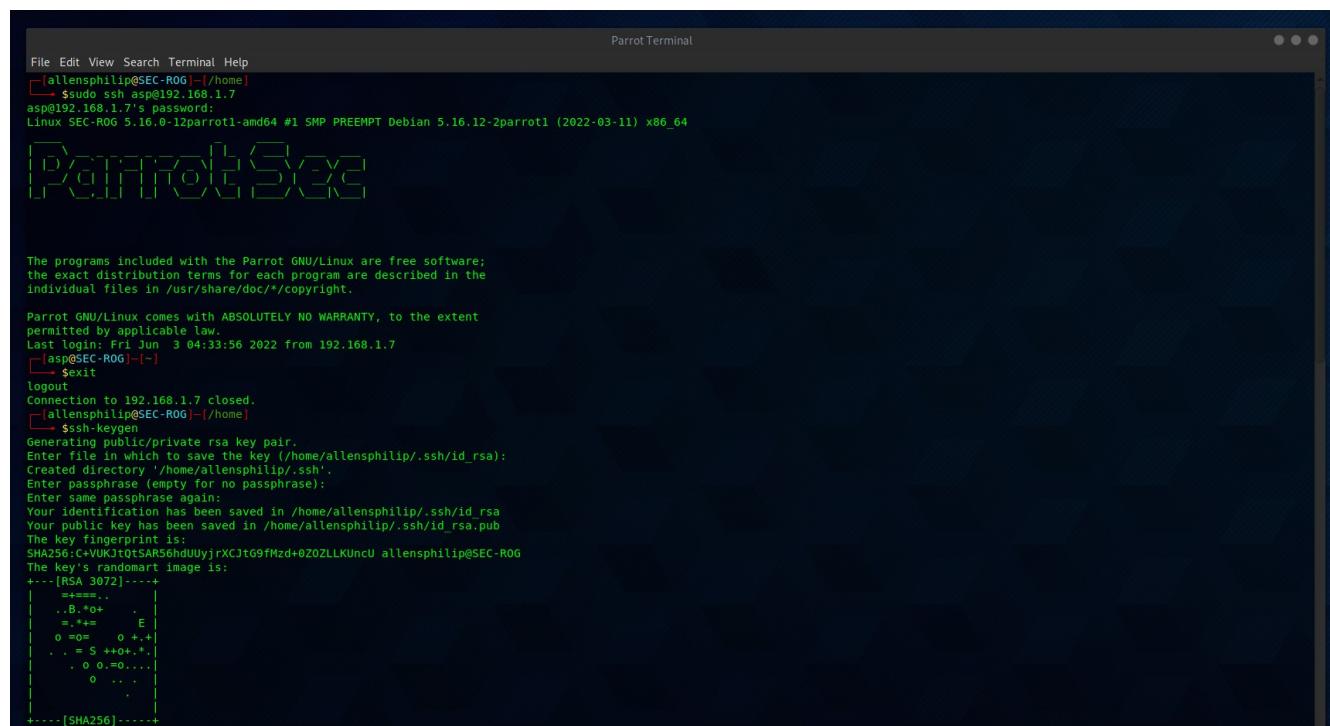
```
ACN- LAB- allensphilip
File Edit View Search Terminal Help
[root@SEC-ROG]~
└─#useradd BBrown
[root@SEC-ROG]~
└─#groupadd Faculty
[root@SEC-ROG]~
└─#groupadd web-author
[root@SEC-ROG]~
└─#groupadd coordinator
[root@SEC-ROG]~
└─#usermod -g Faculty BBrown
[root@SEC-ROG]~
└─#usermod -aG web-author BBrown
[root@SEC-ROG]~
└─#usermod -aG coordinator BBrown
[root@SEC-ROG]~
└─#id BBrown
uid=1006(BBrown) gid=1011(Faculty) groups=1011(Faculty),1012(web-author),1013(coordinator)
[root@SEC-ROG]~
└─#passwd BBrown
New password:
Retype new password:
passwd: password updated successfully
[root@SEC-ROG]~
└─#chage -d 0 BBrown
[root@SEC-ROG]~
└─#su BBrown
You are required to change your password immediately (administrator enforced).
Changing password for BBrown.
Current password:
New password:
Retype new password:
You must choose a longer password.
New password:
Retype new password:
$ id
uid=1006(BBrown) gid=1011(Faculty) groups=1011(Faculty),1012(web-author),1013(coordinator)
$ exit
[root@SEC-ROG]~
└─#
```

Experiment 5

1. Enable access to the remote system (IP: 192.168.1.7) without entering a password.
2. Create a file in your name in a remote system (IP: 192.168.1.7) using the terminal.
3. Learn scp command using the appropriate command. And download a file named 204Lab.txt from the remote system (IP: 192.168.6.94) to your own system.

Output

[1]



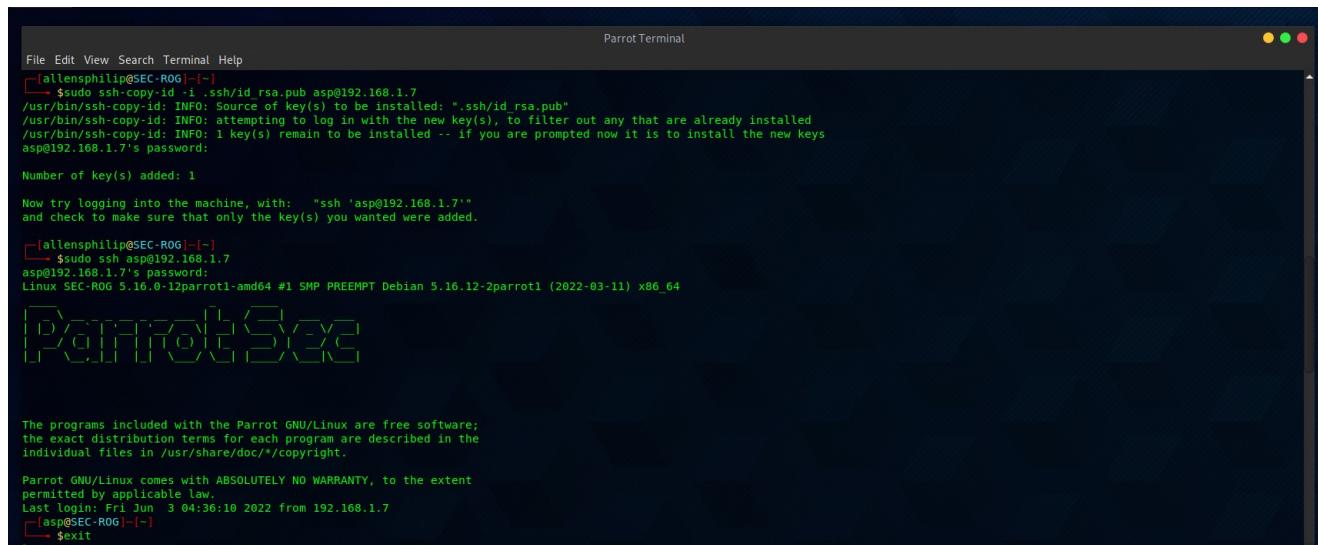
```

File Edit View Search Terminal Help
[allensphilip@SEC-ROG ~]/
└─$ sudo ssh asp@192.168.1.7
asp@192.168.1.7's password:
Linux SEC-ROG 5.16.0-12parrot1-amd64 #1 SMP PREEMPT Debian 5.16.12-2parrot1 (2022-03-11) x86_64

The programs included with the Parrot GNU/Linux are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Parrot GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Fri Jun 3 04:33:56 2022 from 192.168.1.7
[asp@SEC-ROG](-)
└─$ exit
logout
Connection to 192.168.1.7 closed.
[allensphilip@SEC-ROG ~]/
└─$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/allensphilip/.ssh/id_rsa):
Created directory '/home/allensphilip/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/allensphilip/.ssh/id_rsa
Your public key has been saved in /home/allensphilip/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:+VUKJtQCSR56hdUyjrxCJtG9fMzd+0Z0ZLLKUncU allensphilip@SEC-ROG
The key's randomart image is:
+---[RSA 3072]---+
=++...
..B.+*
.=+* E
0 -+* 0 +*.
. . = S ++*.*.
. o o.=.....
o ... .
.
+---[SHA256]---+

```



```

File Edit View Search Terminal Help
[allensphilip@SEC-ROG ~]/
└─$ sudo ssh-copy-id -i .ssh/id_rsa.pub asp@192.168.1.7
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: ".ssh/id_rsa.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
asp@192.168.1.7's password:

Number of key(s) added: 1

Now try logging into the machine, with: "ssh 'asp@192.168.1.7'"
and check to make sure that only the key(s) you wanted were added.

[allensphilip@SEC-ROG](-)
└─$ sudo ssh asp@192.168.1.7
asp@192.168.1.7's password:
Linux SEC-ROG 5.16.0-12parrot1-amd64 #1 SMP PREEMPT Debian 5.16.12-2parrot1 (2022-03-11) x86_64

The programs included with the Parrot GNU/Linux are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Parrot GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Fri Jun 3 04:36:10 2022 from 192.168.1.7
[asp@SEC-ROG](-)
└─$ exit
logout

```

```

Parrot Terminal
File Edit View Search Terminal Help
[allensphilip@SEC-ROG] ~
└─$ ssh asp@192.168.1.7
The authenticity of host '192.168.1.7 (192.168.1.7)' can't be established.
ECDSA key fingerprint is SHA256:knTFKL7KyLsazYDyFJpdWDrbygZPeB/jrgbtF6uMPjY.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.1.7' (ECDSA) to the list of known hosts.
Linux SEC-ROG 5.16.0-12parrot1-amd64 #1 SMP PREEMPT Debian 5.16.12-2parrot1 (2022-03-11) x86_64
[allensphilip@SEC-ROG] ~
└─$ 

```

The programs included with the Parrot GNU/Linux are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*copyright.

Parrot GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

Last login: Fri Jun 3 04:39:21 2022 from 192.168.1.7

[2]

```

Parrot Terminal
File Edit View Search Terminal Help
[allensphilip@SEC-ROG] ~
└─$ ssh asp@192.168.1.7
Linux SEC-ROG 5.16.0-12parrot1-amd64 #1 SMP PREEMPT Debian 5.16.12-2parrot1 (2022-03-11) x86_64
[allensphilip@SEC-ROG] ~
└─$ 

```

The programs included with the Parrot GNU/Linux are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*copyright.

Parrot GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

Last login: Fri Jun 3 04:51:25 2022 from 192.168.1.7

```

[asp@SEC-ROG] ~
└─$ ls
204Lab.txt Desktop Templates
[asp@SEC-ROG] ~
└─$ touch allensphilip
[asp@SEC-ROG] ~
└─$ ls
204Lab.txt allensphilip Desktop Templates
[asp@SEC-ROG] ~
└─$ exit
logout
Connection to 192.168.1.7 closed.
[allensphilip@SEC-ROG] ~
└─$ 

```

[3]

The screenshot shows a terminal window titled "Parrot Terminal". The terminal output is as follows:

```
File Edit View Search Terminal Help
[allensphilip@SEC-ROG]~
└─$ ssh asp@192.168.1.7
Linux SEC-ROG 5.16.0-12parrot1-amd64 #1 SMP PREEMPT Debian 5.16.12-2parrot1 (2022-03-11) x86_64

The programs included with the Parrot GNU/Linux are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Parrot GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Fri Jun  3 04:39:50 2022 from 192.168.1.7
[asp@SEC-ROG]~
└─$ ls
204Lab.txt  Desktop  Templates
[asp@SEC-ROG]~
└─$ exit
logout
Connection to 192.168.1.7 closed.
[allensphilip@SEC-ROG]~
└─$ scp asp@192.168.1.7:204Lab.txt /home/allensphilip
204Lab.txt
          100%   0     0.0KB/s  00:00
[allensphilip@SEC-ROG]~
└─$ ls
204Lab.txt  April2022  Desktop  Documents  Downloads  file2  logfile  MCA  Music  Pictures  Public  Templates
  Videos  website
[allensphilip@SEC-ROG]~
└─$
```