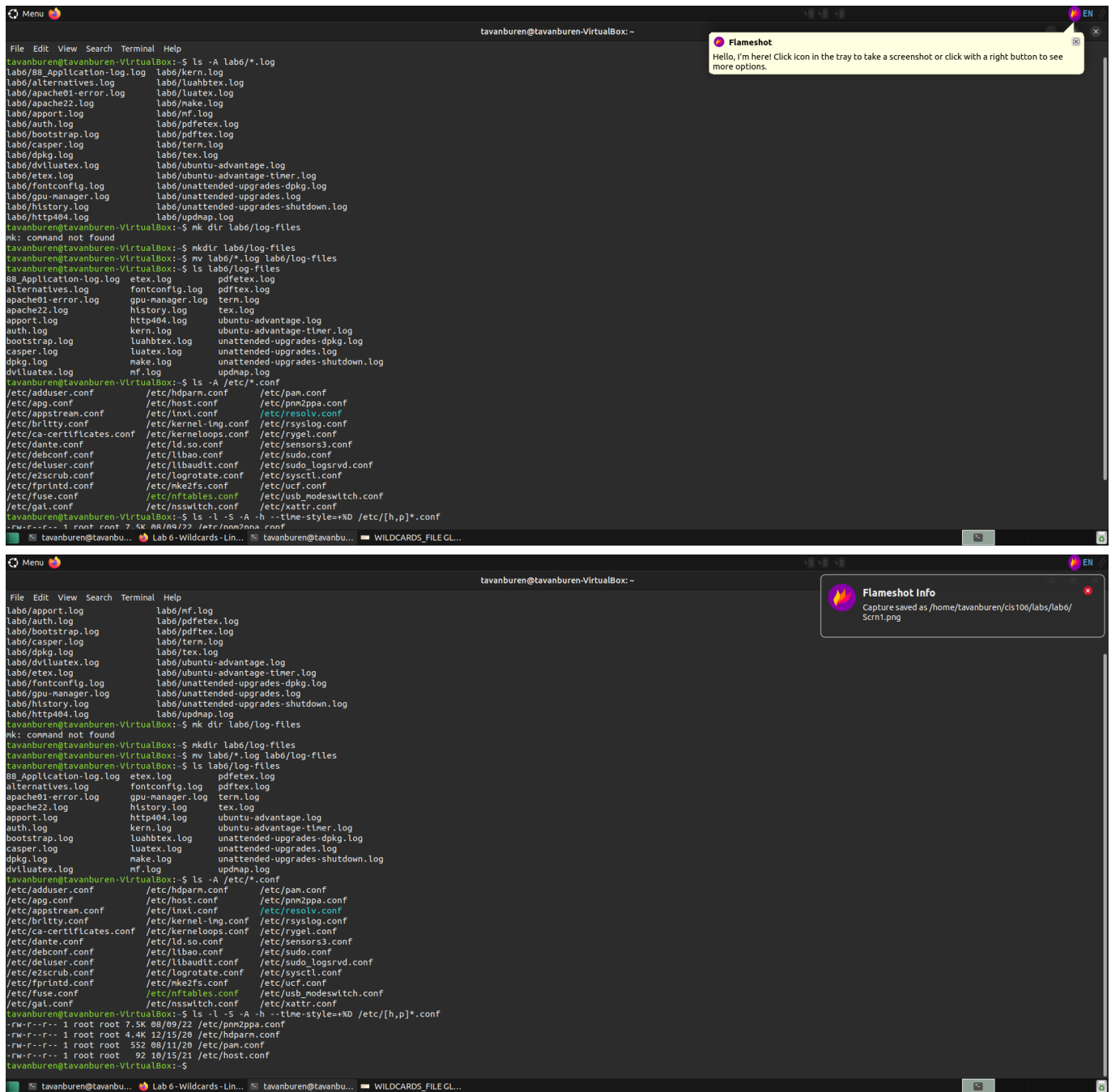


Lab 6

Question 1



The image shows two screenshots of a terminal window in a virtual machine. The terminal is titled 'tavanburen@tavanburen-VirtualBox: ~'. The first screenshot shows the user creating a directory 'lab6/log-files' and listing its contents. The second screenshot shows the user listing the contents of the '/etc' directory.

```
tavanburen@tavanburen-VirtualBox:~$ ls -A lab6/*.log
lab6/88-Application-log.log
lab6/alternatives.log
lab6/apache22.log
lab6/apport.log
lab6/auth.log
lab6/bootstrap.log
lab6/casper.log
lab6/dpkg.log
lab6/dvluatex.log
lab6/etex.log
lab6/fontconfig.log
lab6/gpu-manager.log
lab6/history.log
lab6/http404.log
lab6/luahbtex.log
lab6/luatex.log
lab6/make.log
lab6/mf.log
lab6/pdfetex.log
lab6/term.log
lab6/tex.log
lab6/ubuntu-advantage.log
lab6/ubuntu-advantage-timer.log
lab6/unattended-upgrades-dpkg.log
lab6/unattended-upgrades.log
lab6/unattended-upgrades-shutdown.log
lab6/updmap.log

tavanburen@tavanburen-VirtualBox:~$ mkdir lab6/log-files
tavanburen@tavanburen-VirtualBox:~$ mv lab6/*.log lab6/log-files
tavanburen@tavanburen-VirtualBox:~$ ls lab6/log-files
88-Application-log.log
alternatives.log
apache22.log
apport.log
auth.log
bootstrap.log
casper.log
dpkg.log
dvluatex.log
etex.log
fontconfig.log
gpu-manager.log
history.log
http404.log
kern.log
luahbtex.log
luatex.log
make.log
mf.log
pdfetex.log
term.log
tex.log
ubuntu-advantage.log
ubuntu-advantage-timer.log
unattended-upgrades-dpkg.log
unattended-upgrades.log
unattended-upgrades-shutdown.log
updmap.log

tavanburen@tavanburen-VirtualBox:~$ ls -A /etc/*.conf
/etc/adduser.conf
/etc/agg.conf
/etc/appstream.conf
/etc/brltty.conf
/etc/ca-certificates.conf
/etc/dante.conf
/etc/debconf.conf
/etc/deluser.conf
/etc/e2scrub.conf
/etc/fprind.conf
/etc/fuse.conf
/etc/gai.conf
/etc/hdparm.conf
/etc/host.conf
/etc/inxi.conf
/etc/kernel-lng.conf
/etc/kernelloops.conf
/etc/ld.so.conf
/etc/libao.conf
/etc/libaudit.conf
/etc/logrotate.conf
/etc/mke2fs.conf
/etc/nftables.conf
/etc/nsswitch.conf
/etc/pan.conf
/etc/pnm2ppa.conf
/etc/resolv.conf
/etc/rsyslog.conf
/etc/rygel.conf
/etc/sensors3.conf
/etc/sudo.conf
/etc/sudo_logsrvd.conf
/etc/sysctl.conf
/etc/ucf.conf
/etc/usb_modeswitch.conf
/etc/xattr.conf

tavanburen@tavanburen-VirtualBox:~$ ls -l -S -A -h --time-style=+%D /etc/[h,p]*.conf
-rw-r--r-- 1 root root 7.5K 08/09/22 /etc/pnm2ppa.conf
-rw-r--r-- 1 root root 4.4K 12/15/20 /etc/hdparm.conf
-rw-r--r-- 1 root root 552 08/11/20 /etc/pan.conf
-rw-r--r-- 1 root root 92 10/15/21 /etc/host.conf

tavanburen@tavanburen-VirtualBox:~$
```

Question 2

```
tavanburen@tavanburen-VirtualBox:~$ ls lab6/.*?*
lab6/.appveyor.yml      lab6/.jshintsrc
lab6/.auto-changelog    lab6/.keep
lab6/.babelrc           lab6/.last_revision
lab6/.bash_history      lab6/.lessht
lab6/.bash_logout       lab6/.lint
lab6/.bashrc            lab6/.lock
lab6/.browse.VC.db      lab6/.metadata-v2
lab6/.browse.VC.db-shm  lab6/.meta.isrunning
lab6/.browse.VC.db-wal  lab6/.min-wd
lab6/.changed           lab6/.npmignore
lab6/.coveralls.yml     lab6/.nycrc
lab6/.dir-locals.el     lab6/.padding
lab6/.editorconfig      lab6/.parentlock
lab6/.envrc             lab6/.prettierignore
lab6/.eslintignore      lab6/.prettierrc.yaml
lab6/.eslintrc          lab6/.profile
lab6/.eslintrc.js       lab6/.sudo_as_admin_successful
lab6/.eslintrc.json     lab6/.swp
lab6/.eslintrc.yml      lab6/.templdir.cache
lab6/.face              lab6/.tern-project
lab6/.gitattributes     lab6/.testignore
lab6/.gitconfig         lab6/.tm_properties
lab6/.gitignore         lab6/.tonic_example.js
lab6/.gitkeep           lab6/.travis.yml
lab6/.gitmodules        lab6/.uuid
lab6/.gsd-keyboard.settings-ported lab6/.vboxclient-clipboard.pid
lab6/.hidden            lab6/.vboxclient-display-svg-x11.pid
lab6/.htaccess          lab6/.vboxclient-draganddrop.pid
lab6/.istanbul.yml      lab6/.vboxclient-seamless.pid
lab6/.jscs.json         lab6/.viminfo
lab6/.jscsrc            lab6/.vsixmanifest
lab6/.jshintignore

tavanburen@tavanburen-VirtualBox:~$ ls lab6/*.??
lab6/file_00.sh lab6/file_02.sh lab6/file_04.sh
lab6/file_01.sh lab6/file_03.sh lab6/file_05.sh
tavanburen@tavanburen-VirtualBox:~$ ls lab6/l?*st*
lab6/last.txt lab6/list.txt lab6/lost.txt
tavanburen@tavanburen-VirtualBox:~$ ls lab6/*_??.*
lab6/file_00.sh lab6/file_02.sh lab6/file_04.sh
lab6/file_01.sh lab6/file_03.sh lab6/file_05.sh
tavanburen@tavanburen-VirtualBox:~$
```

Question 3

```
tavanburen@tavanburen-VirtualBox: ~  
File Edit View Search Terminal Help  
tavanburen@tavanburen-VirtualBox:~$ ls lab6/[A-Z]*  
lab6/Document.doc lab6/Expenses.xls  
tavanburen@tavanburen-VirtualBox:~$ ls lab6/[A-Z,0-9]*  
lab6/25Games.lst lab6/Document.doc lab6/Expenses.xls  
tavanburen@tavanburen-VirtualBox:~$ ls lab6/*[0-9]*  
lab6/25Games.lst lab6/file_01.sh lab6/file_04.sh  
lab6/apache03.err lab6/file_02.sh lab6/file_05.sh  
lab6/file_00.sh lab6/file_03.sh lab6/trip22-info.doc  
tavanburen@tavanburen-VirtualBox:~$ ls lab6/[a-z]*[0-9].*  
lab6/apache03.err lab6/file_01.sh lab6/file_03.sh lab6/file_05.sh  
lab6/file_00.sh lab6/file_02.sh lab6/file_04.sh  
tavanburen@tavanburen-VirtualBox:~$
```

Question 4

```
tavanburen@tavanburen-VirtualBox:~$ mkdir -p lab6/wallpapers/cars/{1080p,2k,4k}
tavanburen@tavanburen-VirtualBox:~$ tree lab6/wallpapers
lab6/wallpapers
├── cars
│   ├── 1080p
│   ├── 2k
│   └── 4k
```

```
tavanburen@tavanburen-VirtualBox: ~
File Edit View Search Terminal Help
tavanburen@tavanburen-VirtualBox:~$ mkdir -p lab6/assets/{imgs/{large,small},video/{large,small}}
tavanburen@tavanburen-VirtualBox:~$ tree lab6/assets
lab6/assets
├── imgs
│   ├── large
│   └── small
└── video
    ├── large
    └── small

6 directories, 0 files
tavanburen@tavanburen-VirtualBox:~$
```

```
tavanburen@tavanburen-VirtualBox: ~
File Edit View Search Terminal Help
tavanburen@tavanburen-VirtualBox:~$ mkdir -p lab6/docs/books/{history/{fall/book
.pdf,spring/book.pdf},math/{fall/book.pdf,spring/book.pdf}}
tavanburen@tavanburen-VirtualBox:~$ tree lab6/docs
lab6/docs
├── books
│   ├── history
│   │   ├── fall
│   │   │   └── book.pdf
│   │   └── spring
│   │       └── book.pdf
│   └── math
│       ├── fall
│       │   └── book.pdf
│       └── spring
│           └── book.pdf
└── 11 directories, 0 files
tavanburen@tavanburen-VirtualBox:~$
```

```
tavanburen@tavanburen-VirtualBox: /
File Edit View Search Terminal Help
tavanburen@tavanburen-VirtualBox:~$ mkdir lab6-q5
tavanburen@tavanburen-VirtualBox:~$ cd /
tavanburen@tavanburen-VirtualBox:/$ touch ~/lab6-q5/{program.py,people.csv,data.
xls}
tavanburen@tavanburen-VirtualBox:/$ mkdir ~/lab6-q5/movies
tavanburen@tavanburen-VirtualBox:/$ touch ~/lab6-q5/movies/{movies.lst,mарvel.tx
t,disney.doc}
tavanburen@tavanburen-VirtualBox:/$ rm ~/lab6-q5/{program.py,people.csv,movies/{
disney.doc,mарvel.txt}}
tavanburen@tavanburen-VirtualBox:/$
```

Challenge

```
Menu
File Edit View Search Terminal Help
tavanburen@tavanburen-VirtualBox: ~
% Total % Received % Xferd Average Speed Time Time Current
Dload Upload Total Spent Left Speed
100 165 100 165 0 0 811 0 --:--:-- --:--:-- 812
tavanburen@tavanburen-VirtualBox:~$ curl https://ctf106.com/assets/lab6cq.sh | bash
tavanburen@tavanburen-VirtualBox:~$ mkdir -p challenge-Lab6/{audio/{aac/all-aac-files-here,np3/all-mp3-files-here},docs/{docx/all-docs-files-here,pdf/all-pdf-files-here,xls/all-xls-files-here},images/{jpg/all-jpg-files-here,png/all-png-files-here}}
tavanburen@tavanburen-VirtualBox:~$ tree challenge-Lab6/
challenge-Lab6/
├── audio
│   ├── aac
│   │   └── all-aac-files-here
│   └── np3
│       └── all-mp3-files-here
├── docs
│   ├── docx
│   │   └── all-docs-files-here
│   ├── pdf
│   │   └── all-pdf-files-here
│   └── xls
│       └── all-xls-files-here
├── docs1.docx
├── docs1.pdf
├── docs2.docx
├── docs2.pdf
├── image1.gif
├── image1.jpg
├── image1.png
├── image2.gif
├── image2.jpg
├── image2.png
├── images
│   ├── jpg
│   │   └── all-jpg-files-here
│   └── png
│       └── all-png-files-here
├── program.go
├── program.py
├── program.rb
├── program.sh
├── song1.aac
├── song1.mp3
├── song2.aac
└── song2.mp3

17 directories, 18 files
tavanburen@tavanburen-VirtualBox:~$ mv challenge-Lab6/*.* challenge-Lab6/audio/aac/all-aac-files-here/
```

```
Menu
File Edit View Search Terminal Help
tavanburen@tavanburen-VirtualBox: ~
├── program.rb
└── program.sh

17 directories, 18 files
tavanburen@tavanburen-VirtualBox:~$ mv challenge-Lab6/*.png challenge-Lab6/images/png/all-png-files-here/
tavanburen@tavanburen-VirtualBox:~$ tree challenge-Lab6/
challenge-Lab6/
├── audio
│   ├── aac
│   │   ├── all-aac-files-here
│   │   ├── song1.aac
│   │   └── song2.aac
│   └── np3
│       ├── all-mp3-files-here
│       ├── song1.mp3
│       └── song2.mp3
├── docs
│   ├── docx
│   │   ├── all-docs-files-here
│   │   ├── docs1.docx
│   │   └── docs2.docx
│   ├── pdf
│   │   ├── all-pdf-files-here
│   │   ├── docs1.pdf
│   │   └── docs2.pdf
│   └── xls
│       └── all-xls-files-here
├── image1.gif
├── image2.gif
├── images
│   ├── jpg
│   │   └── all-jpg-files-here
│   │   ├── image1.jpg
│   │   └── image2.jpg
│   └── png
│       ├── all-png-files-here
│       ├── image1.png
│       └── image2.png
├── program.go
├── program.py
├── program.rb
└── program.sh

17 directories, 18 files
tavanburen@tavanburen-VirtualBox:~$
```