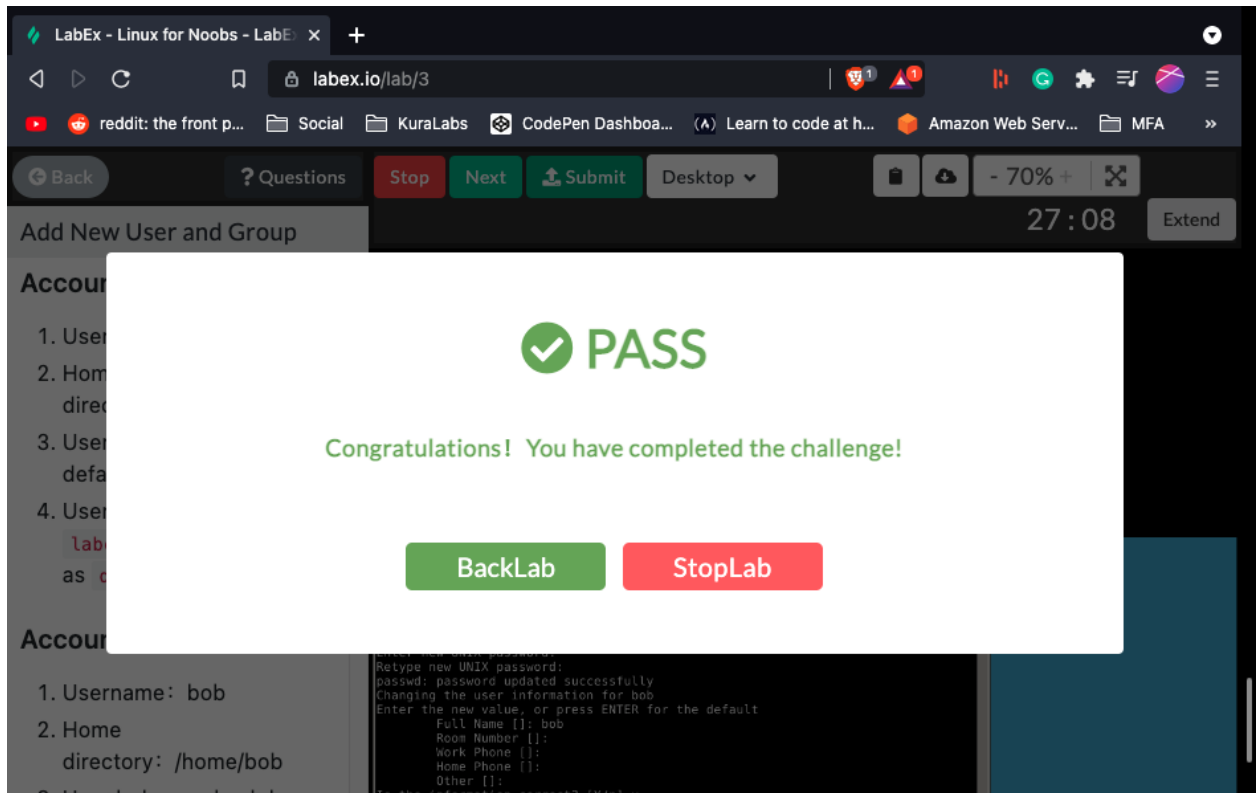


Linux for Noobs Lab Assignment

1. Add New User and Group



a. Create Users

- i. `$ sudo adduser jack`
- ii. `$ sudo adduser bob`

b. Create Groups

- i. `$ sudo groupadd dev && groupadd test`

c. Add Users to appropriate groups

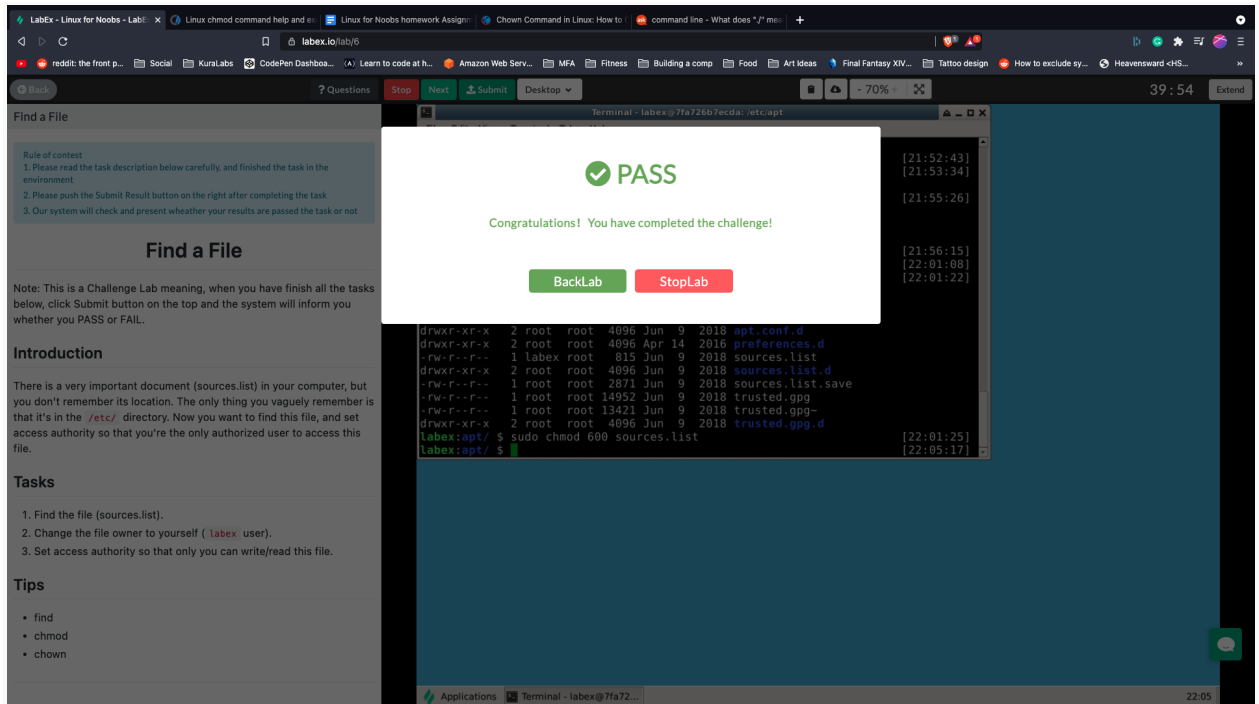
- i. `$ sudo usermod -a -G dev jack`
- ii. `$ sudo usermod -a -G test bob`

d. Change default shell

- i. `$ sudo usermod --shell /bin/zsh jack`

- ii. Default shell is bash so need to change bob's default

2. Find a File



- a. Find the file sources.list within the etc directory
- i. `$ sudo ./ find -name sources.list`
- b. Change file owner to yourself(labex user)
- i. `$ sudo chown labex ./apt/sources.list`
- c. Change access authority so that only you can read/write
- i. `$ sudo chmod 600 sources.list`

3. Backing Up System Logs

The screenshot shows a web browser window with the URL `labex.io/lab/122`. The page title is "Backup System Log". It contains a "Rule of contest" section with three points, a "Backing Up System Logs" section with a description of the task, and a "Tasks" section with a list of instructions. A "Tips" section lists `date`, `mkdir`, and `tar`. On the right side of the browser, there is a terminal window titled "Terminal - labex@90f4722fc83: ~/tmp". The terminal shows the contents of the `/var/log` directory, listing files such as `lastlog`, `apt`, `apt/history.log`, `apt/term.log`, `alternatives.log`, `faillog`, `fsck`, `fsck/checkroot`, `fsck/checkfs`, `fontconfig.log`, `wtmp`, `bootstrap.log`, `mysql/error.log`, `supervisor`, `supervisor/ssh-stderr--supervisor-iwqYCR.log`, `supervisor/ssh-stdout--supervisor-Cv6REY.log`, `supervisor/supervisord.log`, `btm`, `nginx/access.log`, `nginx/error.log`, and `unattended-upgrades/`. The terminal prompt is `labex:tmp/ $`.

- a. Create a new tmp folder for the backup
 - i. `$ mkdir tmp`
 - ii. `$ cd tmp`
- b. Create a backup within the tmp folder
 - i. `$ sudo tar -cvf 2021-07-16.tgz /var/log/`
- c. `>`

4. Analyze Historical Commands

a. Retrieve file called data1

i. `$ wget`

<https://labexfile.oss-us-west-1-internal.aliyuncs.com/courses/1/data1>

b. Make a result directory under the labex directory

i. `$ mkdir result`

c. Move data1 file to result directory(because I messed up)

i. `$ mv data1 result`

d. Currently stuck on attempting to cut the commands by themselves from the line

5. Extracting Data

```
213399394@qq.com
542341312@qq.com
labex:~/ $ cat data2 | grep '^[0-9]' | > num [2:57:14]
labex:~/ $ cat num [2:57:28]
2133131@qq.com
3312313213@qq.com
111111111111
222222222222
4123512313
1232134123
1231333123
129512421@shiyianlou.com
213399394@qq.com
542341312@qq.com
labex:~/ $ [2:57:35]
labex:~/ $ cat data2 | grep -c '^[0-9]' [2:58:37]
10
labex:~/ $ cat data2 | grep -c \".com\" [2:58:46]
zsh: command not found: grep-c
labex:~/ $ cat data2 | grep -c \".com\" [3:04:56]
7
labex:~/ $ cat data2 | grep \".com\" [3:05:03]
2133131@qq.com
3312313213@qq.com
testfile@163.com
chenghaoyang@gmail.com
129512421@shiyianlou.com
213399394@qq.com
542341312@qq.com
labex:~/ $ cat data2 | grep \".com\" | > mail [3:05:31]
labex:~/ $ ls [3:05:49]
Code Desktop data2 mail num
labex:~/ $ [3:05:54]
```

a. Retrieve file called data2

i. `$ wget http://labfile.oss-cn-hangzhou.aliyuncs.com/courses/1/data2`

b. To match the lines beginning with a number and write the result to

`/home/labex/num .`

i. `$ cat data2 | grep "[0-9]" | > num`

c. Match the correct format of the mailbox, and write the result to

`/home/labex/mail.`

i. `$ cat data2 | grep ".com" | > mail`