

Ibrahima Diallo
Kura Labs
Instructor: Tyrone Sanderson
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Challenge 1 : Add New User and Group

I tried these commands below, but I got an error.

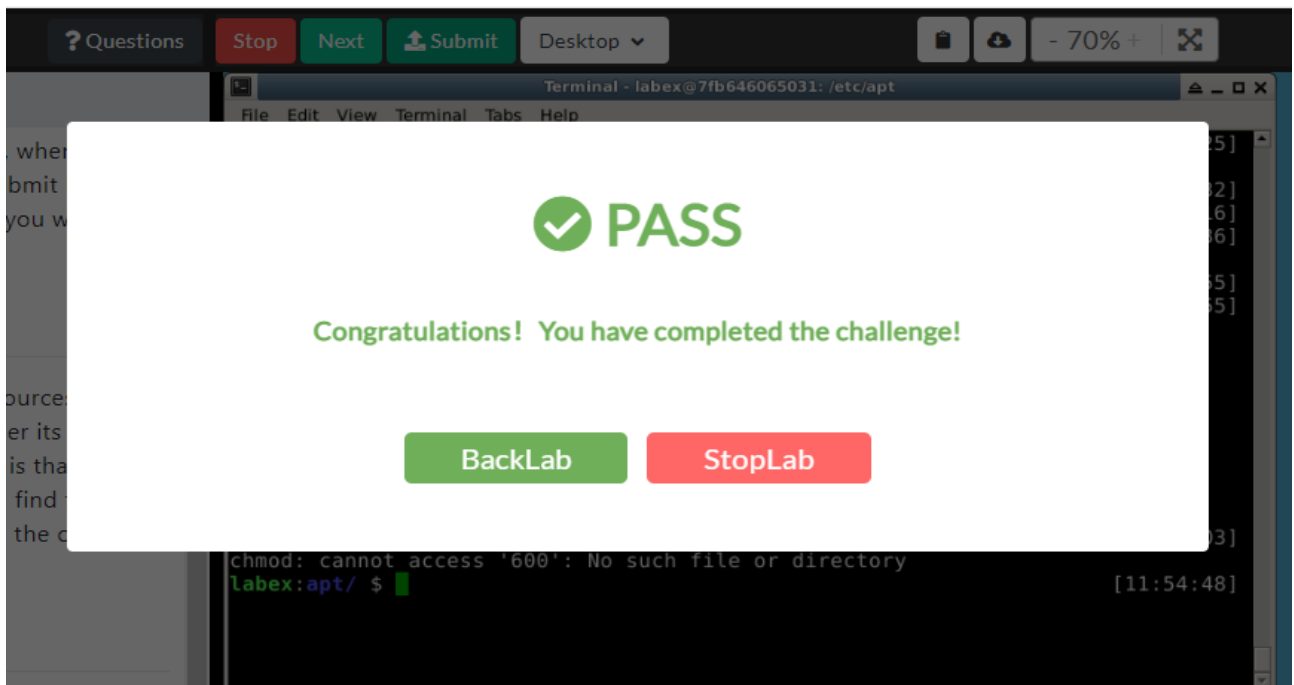
```
Terminal - labex@412dfc62ad9b: ~
File Edit View Terminal Tabs Help

Other []:
Is the information correct? [Y/n]
labex:~/ $ ls jack [0:37:49]
ls: cannot access 'jack': No such file or directory
labex:~/ $ sudo usermod -a -G labex jack [0:38:01]
labex:~/ $ sudo usermod -a -G dev jack [0:39:18]
usermod: group 'dev' does not exist
labex:~/ $ sudo addgroup dev [0:39:33]
Adding group 'dev' (GID 1001) ...
Done.
labex:~/ $ sudo usermod -a -G dev jack [0:39:57]
labex:~/ $ sudo adduser bob [0:40:05]
Adding user 'bob' ...
Adding new group 'bob' (1002) ...
Adding new user 'bob' (1001) with group 'bob' ...
Creating home directory '/home/bob' ...
Copying files from '/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for bob
Enter the new value, or press ENTER for the default
Full Name []:
Room Number []:
Work Phone []:
Home Phone []:
Other []:
Is the information correct? [Y/n] y
labex:~/ $ su bob [0:40:40]
Password:
bob@412dfc62ad9b:/home/labex$
bob@412dfc62ad9b:/home/labex$ cd
bob@412dfc62ad9b:~$ cd ..
bob@412dfc62ad9b:/home$ exit
exit
labex:~/ $ sudo addgroup test [0:44:12]
Adding group 'test' (GID 1003) ...
Done.
labex:~/ $ sudo usermod -a -G labex bob [0:45:23]
labex:~/ $ sudo usermod -a -G test bob [0:45:44]
labex:~/ $ [0:45:58]
```

Challenge 2 : Find a File

This challenge was successful.

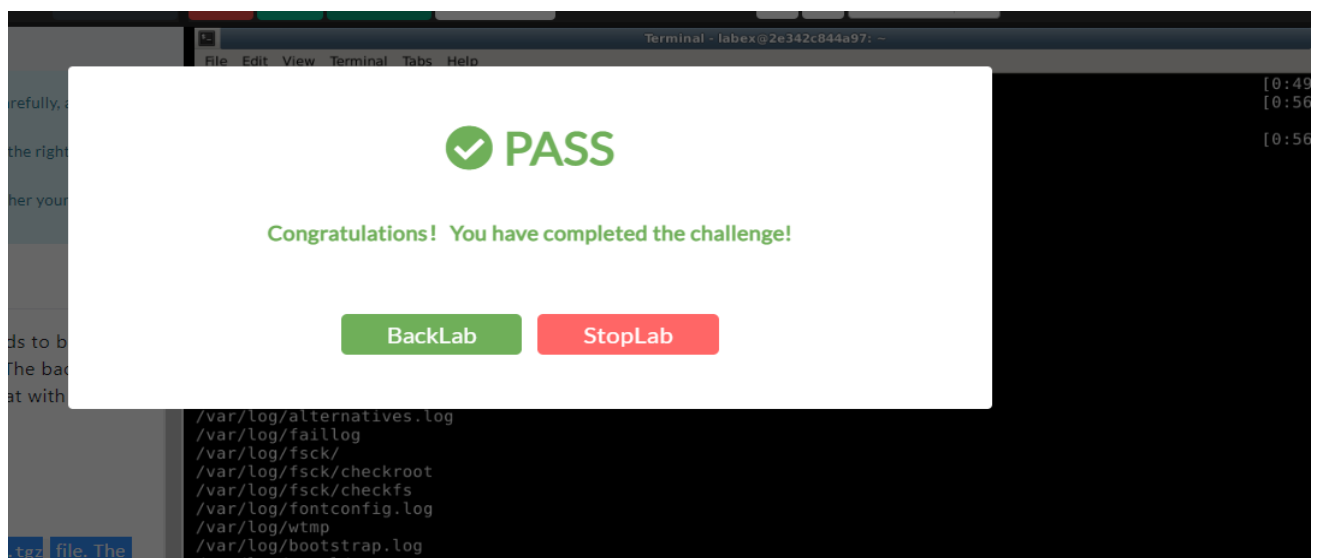
```
File Edit View Terminal Tabs Help
labex:~/ $ sudo find /etc/ -iname *sources.list
/etc/apt/sources.list
labex:~/ $ cd /etc/apt/
labex:apt/ $ sudo chown labex sources.list
labex:apt/ $ ls -l sources.list
-rw-r--r-- 1 labex root 815 Jun  9 2018 sources.list
labex:apt/ $ sudo chmod u=rw sources.list
labex:apt/ $ ls -l
```



Challenge 3 :Backup System Log

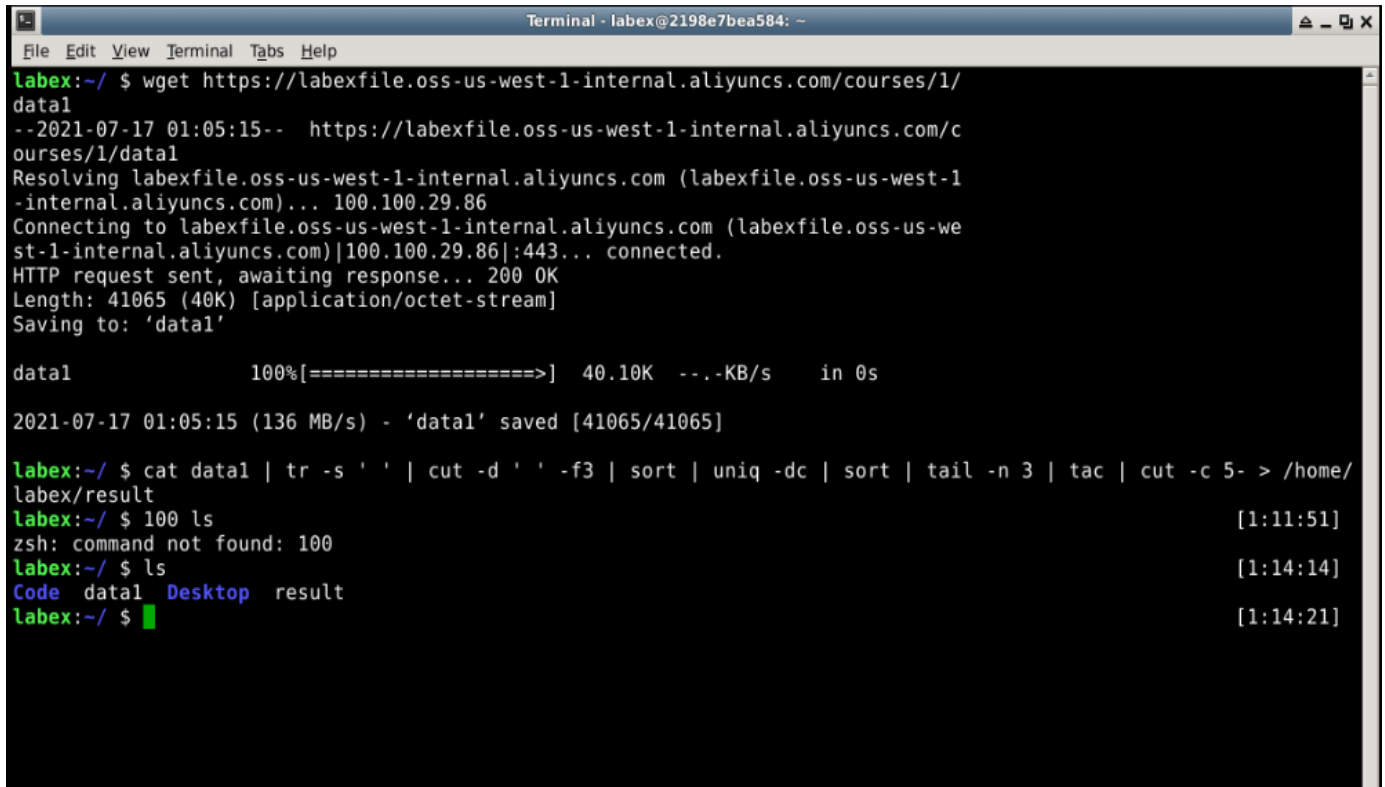
This challenge was successful.

```
File Edit View Terminal Tabs Help
labex:~/ $ mkdir /home/labex/tmp [0:49:56]
labex:~/ $ ls [0:56:18]
Code Desktop tmp
labex:~/ $ sudo tar cvzf /home/labex/tmp/${date +%Y-%m-%d}.tgz /var/log [0:56:27]
tar: Removing leading '/' from member names
/var/log/
/var/log/dmesg
/var/log/redis/
/var/log/dpkg.log
/var/log/apache2/
/var/log/apache2/access.log
/var/log/apache2/other_vhosts_access.log
/var/log/apache2/error.log
/var/log/mongodb/
/var/log/lastlog
/var/log/apt/
/var/log/apt/history.log
/var/log/apt/term.log
/var/log/alternatives.log
/var/log/faillog
/var/log/fsck/
/var/log/fsck/checkroot
/var/log/fsck/checkfs
/var/log/fontconfig.log
/var/log/wtmp
/var/log/bootstrap.log
/var/log/mysql/
/var/log/mysql/error.log
/var/log/supervisor/
/var/log/supervisor/ssh-stdout---supervisor-AYi9JH.log
/var/log/supervisor/supervisord.log
/var/log/supervisor/ssh-stderr---supervisor-3bjLjf.log
/var/log/btmp
/var/log/nginx/
/var/log/nginx/access.log
/var/log/nginx/error.log
/var/log/unattended-upgrades/
labex:~/ $ [0:58:27]
```



Challenge 4 :Analyze Historical Commands

I was able to save the data, but I got an error for the following command.

A terminal window titled "Terminal - labex@2198e7bea584: ~" with a menu bar (File, Edit, View, Terminal, Tabs, Help). The terminal shows a successful wget download of a file named 'data1' from a URL. The download progress is shown as 100% with a speed of 40.10K. After the download, a complex command is executed: 'cat data1 | tr -s ' ' | cut -d ' ' -f3 | sort | uniq -dc | sort | tail -n 3 | tac | cut -c 5- > /home/labex/result'. This is followed by 'ls' commands. The output of the first 'ls' shows 'zsh: command not found: 100'. The second 'ls' shows 'data1 Desktop result'. The terminal also displays timestamps for each command: [1:11:51] for the first 'ls', [1:14:14] for the second 'ls', and [1:14:21] for the final prompt.

```
labex:~/ $ wget https://labexfile.oss-us-west-1-internal.aliyuncs.com/courses/1/
data1
--2021-07-17 01:05:15-- https://labexfile.oss-us-west-1-internal.aliyuncs.com/c
ourses/1/data1
Resolving labexfile.oss-us-west-1-internal.aliyuncs.com (labexfile.oss-us-west-1
-internal.aliyuncs.com)... 100.100.29.86
Connecting to labexfile.oss-us-west-1-internal.aliyuncs.com (labexfile.oss-us-we
st-1-internal.aliyuncs.com)|100.100.29.86|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 41065 (40K) [application/octet-stream]
Saving to: 'data1'

data1          100%[=====>]  40.10K  --.-KB/s   in 0s

2021-07-17 01:05:15 (136 MB/s) - 'data1' saved [41065/41065]

labex:~/ $ cat data1 | tr -s ' ' | cut -d ' ' -f3 | sort | uniq -dc | sort | tail -n 3 | tac | cut -c 5- > /home/
labex/result
labex:~/ $ 100 ls                                     [1:11:51]
zsh: command not found: 100
labex:~/ $ ls                                          [1:14:14]
Code data1 Desktop result
labex:~/ $                                           [1:14:21]
```

Challenge 5 :Data Extraction

For this challenge, I am able to download the data into data2, but I have not been able to find the commands yet.

Sources Visited

<https://www.freecodecamp.org/news/linux-user-groups-explained-how-to-add-a-new-group-a-new-group-member-and-change-groups/>

<https://www.theurbanpenguin.com/32-searching-and-extracting-data-from-files/>