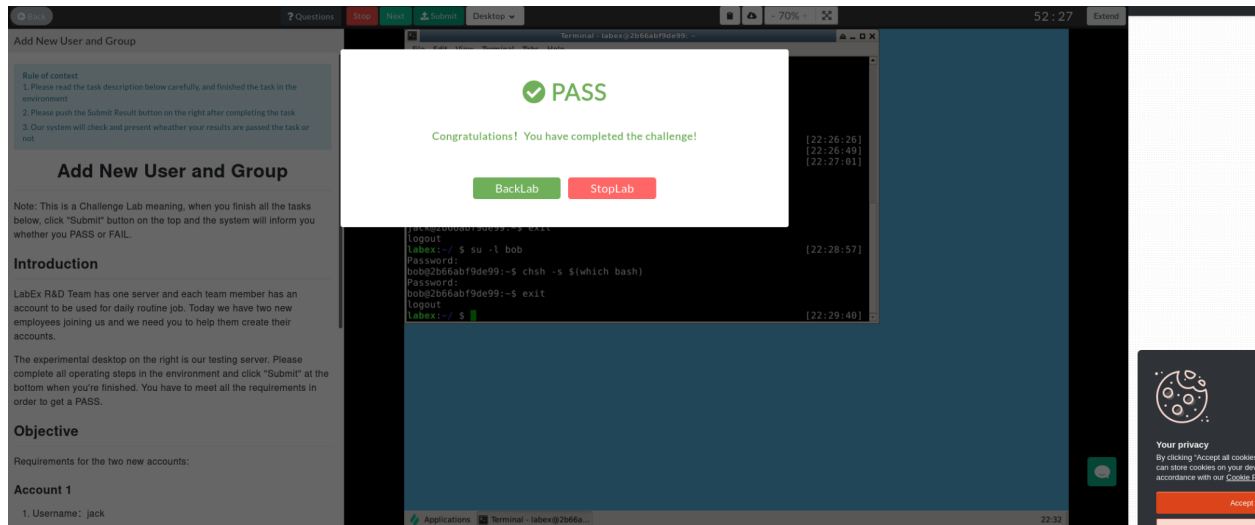


Homework 1: LabEx

Lab 1: Add New User and Group



Commands:

```
cd ..
```

```
sudo groupadd dev
```

```
sudo groupadd test
```

```
sudo adduser jack
```

```
sudo adduser bob
```

```
sudo usermod -a -G labex,dev jack
```

```
sudo usermod -a -G labex,test bob
```

```
su -l jack
```

```
chsh -s $(which zsh)
```

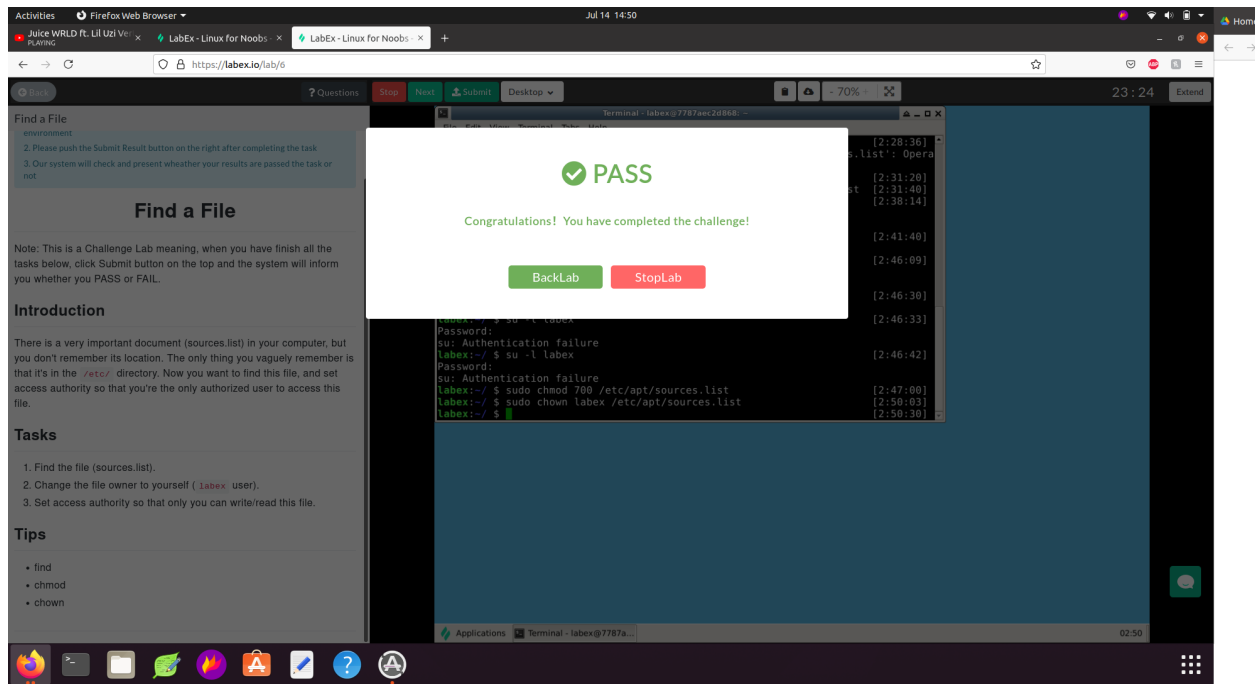
```
exit
```

```
su -l bob
```

```
chsh -s $(which bash)
```

```
exit
```

Lab 2: Find a File



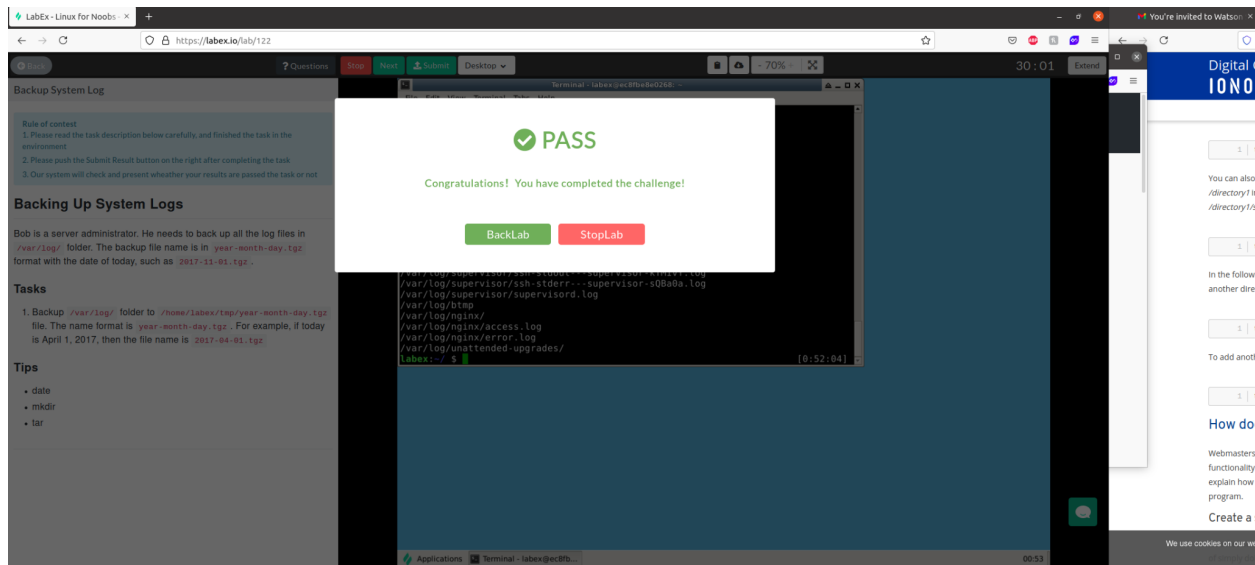
Commands:

```
sudo find / -type f -name "sources.list"
```

```
sudo chmod 700 /etc/apt/sources.list
```

```
sudo chown labex /etc/apt/sources.list
```

Lab 3: Backup System Log



Commands:

ls

mkdir tmp

touch year-month-day.tgz

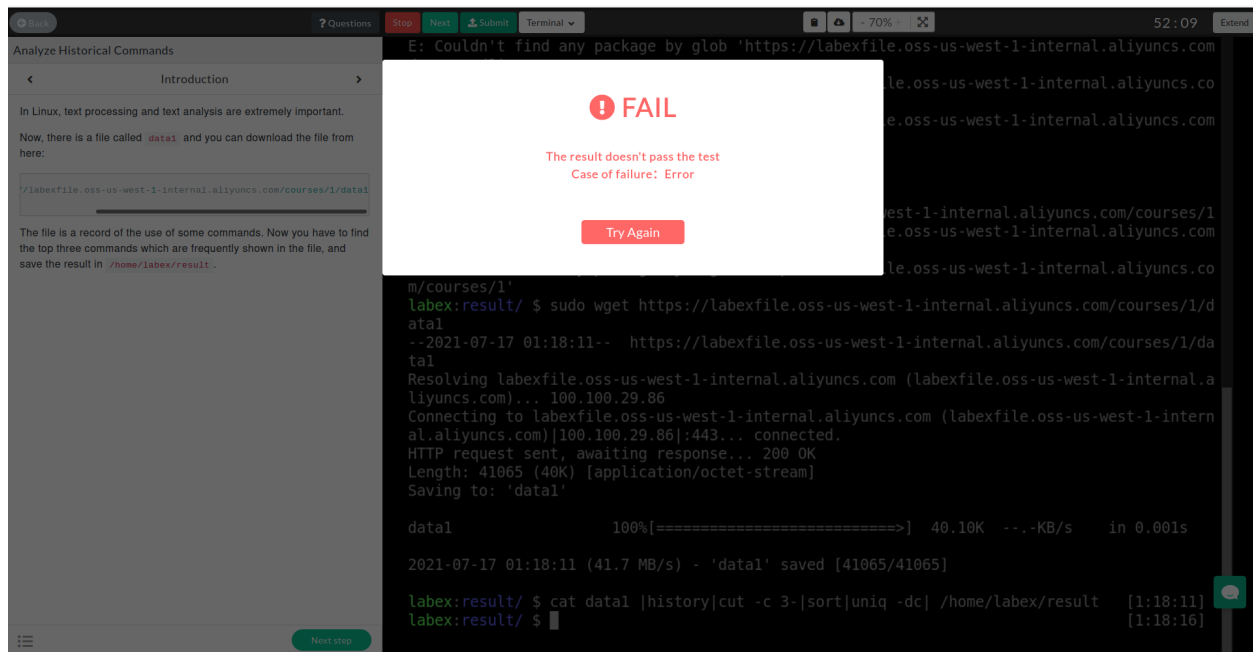
cd tmp

touch year-month-day.tgz

cd ..

sudo tar -cvzf /home/labex/tmp/\$(date +%F).tgz /var/log

Lab 4: Analyze Historical Commands



The screenshot shows a lab interface with a sidebar on the left containing an 'Introduction' section. The main area is a terminal window. A red 'FAIL' message is displayed in the center, stating 'The result doesn't pass the test' and 'Case of failure: Error'. Below the message is a 'Try Again' button. The terminal output shows the user running 'sudo wget' to download a file from a URL. The download is successful, and the file is saved as 'data1'. The user then runs 'cat data1 | history | cut -c 3- | sort | uniq -dc' to analyze the commands. The output of this command is shown at the bottom of the terminal.

```
E: Couldn't find any package by glob 'https://labexfile.oss-us-west-1-internal.aliyuncs.com/courses/1/data1'

! FAIL

The result doesn't pass the test
Case of failure: Error

Try Again

labex:result/ $ sudo wget https://labexfile.oss-us-west-1-internal.aliyuncs.com/courses/1/data1
--2021-07-17 01:18:11-- https://labexfile.oss-us-west-1-internal.aliyuncs.com/courses/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-west-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 0.001s

2021-07-17 01:18:11 (41.7 MB/s) - 'data1' saved [41065/41065]

labex:result/ $ cat data1 | history | cut -c 3- | sort | uniq -dc | /home/labex/result
labex:result/ $
```

Commands:

```
sudo apt-get update
```

```
sudo apt install https://labexfile.oss-us-west-1-internal.aliyuncs.com/courses/1/data1
```

```
sudo apt install wget https://labexfile.oss-us-west-1-internal.aliyuncs.com/courses/1/data1
```

```
sudo wget https://labexfile.oss-us-west-1-internal.aliyuncs.com/courses/1/data1
```

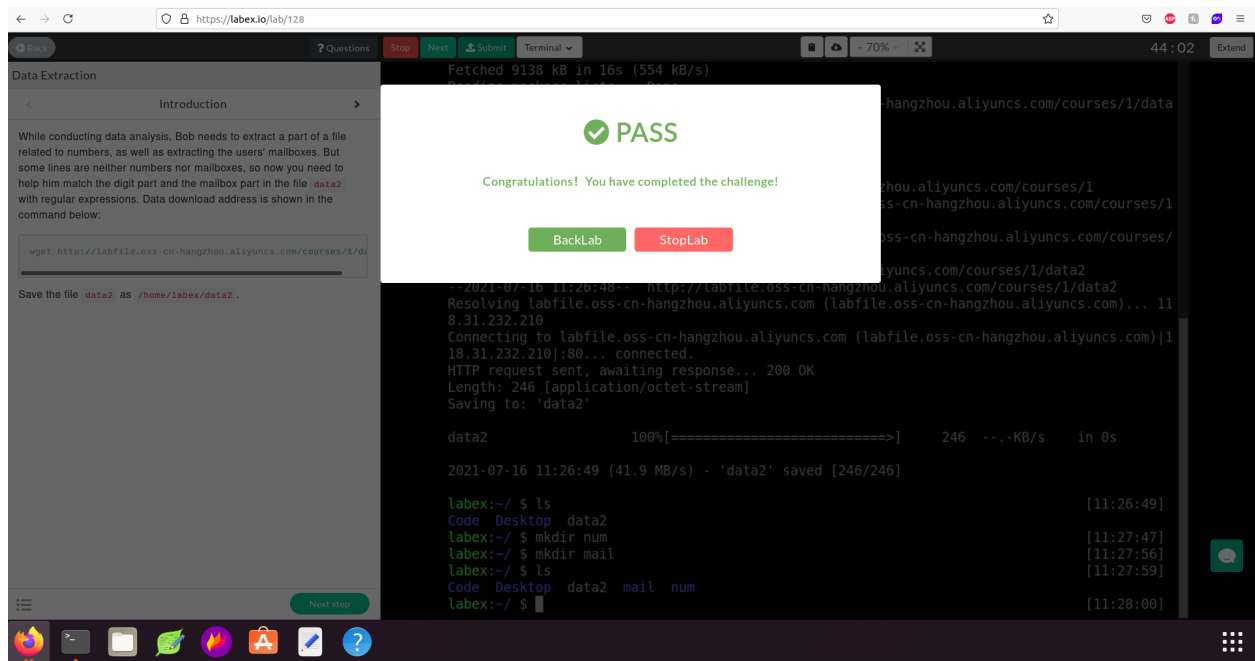
```
ls
```

```
mkdir /home/labex/result
```

```
cp data1 home/labex/result
```

```
cat data1 | history | cut -c 3- | sort | uniq -dc | /home/labex/result
```

Lab 5: Data Extraction



Commands:

sudo apt-get update

sudo apt install wget <http://labfile.oss-cn-hangzhou.aliyuncs.com/courses/1/data2>

sudo apt install <http://labfile.oss-cn-hangzhou.aliyuncs.com/courses/1/data2>

sudo wget <http://labfile.oss-cn-hangzhou.aliyuncs.com/courses/1/data2>

ls

mkdir num

mkdir mail

ls