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Extensions

### Add New User and Group

The experimental desktop on the right is our testing server. Please complete all operating steps in the environment and click "Submit" at the bottom when you're finished. You have to meet the requirements in order to get a PASS.

#### Objective

Requirements for the two new accounts:

#### Account 1

1. Username: jack
2. Home directory: /home/jack
3. User jack uses zsh by default.
4. User jack belongs to labex user group as well as dev user group.

#### Account 2

1. Username: bob
2. Home directory: /home/bob
3. User bob uses bash by default.
4. User bob belongs to labex user group as well as test user group

#### Tips

I'm labex. I have sudo authority. I use zsh. I belong to labex user group.

#### Outline

- Linux user creation and configuration
- Linux user group creation and addition

✓ PASS

Congratulations! You have completed the challenge!

BackLab

StopLab

Terminal - labex@8fe7e27085b3: /etc/apt

labex:/etc/ \$ cd apt

labex:apt/ \$ chown labex sources.list

chown: changing ownership of 'sources.list': Operation not permitted

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/ \$ chmod u=rw,og=r sources.list

labex:apt/ \$

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Extensions

### Find a File

Rule of contest

1. Please read the task description below carefully, and finished the task in the environment
2. Please push the Submit Result button on the right after completing the task
3. Our system will check and present whether your results are passed the task or not

#### Find a File

Note: This is a Challenge Lab meaning, when you have finish all the tasks below, click Submit button on the top and the system will inform you whether you PASS or FAIL.

#### Introduction

There is a very important document (sources.list) in your computer, but you don't remember its location. The only thing you vaguely remember is that it's in the /etc/ directory. Now you want to find this file, and set access authority so that you're the only authorized user to access this file.

#### Tasks

1. Find the file (sources.list).
2. Change the file owner to yourself ( labex user).
3. Set access authority so that only you can write/read this file.

#### Tips

- find
- chmod
- chown

✓ PASS

Congratulations! You have completed the challenge!

BackLab

StopLab

Terminal - labex@8fe7e27085b3: /etc/apt

labex:/etc/ \$ cd apt

labex:apt/ \$ chown labex sources.list

chown: changing ownership of 'sources.list': Operation not permitted

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labex:apt/ \$ chmod u=rw,og=r sources.list

labex:apt/ \$

## Backup System Log

### Rule of contest

1. Please read the task description below carefully, and finished the task in the environment
2. Please push the Submit Result button on the right after completing the task
3. Our system will check and present wheather your results are passed the task or not

## Backing Up System Logs

Bob is a server administrator. He needs to back up all the log files in `/var/log/` folder. The backup file name is in `year-month-day.tgz` format with the date of today, such as `2017-11-01.tgz`.

### Tasks

1. Backup `/var/log/` folder to `/home/labex/tmp/year-month-day.tgz` file. The name format is `year-month-day.tgz`. For example, if today is April 1, 2017, then the file name is `2017-04-01.tgz`

### Tips

- date
- mkdir
- tar

```
Terminal - labex@e478a5320548: ~/tmp
File Edit View Terminal Tabs Help
labex:~/ $ ls                                     [10:53:30]
2021-07-16.tgz Code Desktop tmp tmp-2021-07-16.tgz
labex:~/ $ cd tmp                                 [10:53:35]
labex:tmp/ $ ls                                    [10:53:37]
2021-07-16.tgz
labex:tmp/ $ sudo tar -zcf /home/labex/tmp/"$name.tgz" /var/log [10:53:39]
tar: Removing leading '/' from member names
labex:tmp/ $ ls                                    [10:54:23]
2021-07-16.tgz
labex:tmp/ $ ls                                    [10:54:56]
2021-07-16.tgz
labex:tmp/ $ pwd                                   [10:55:33]
/home/labex/tmp
labex:tmp/ $ ls                                    [10:56:40]
2021-07-16.tgz
labex:tmp/ $ █                                     [10:56:48]
```