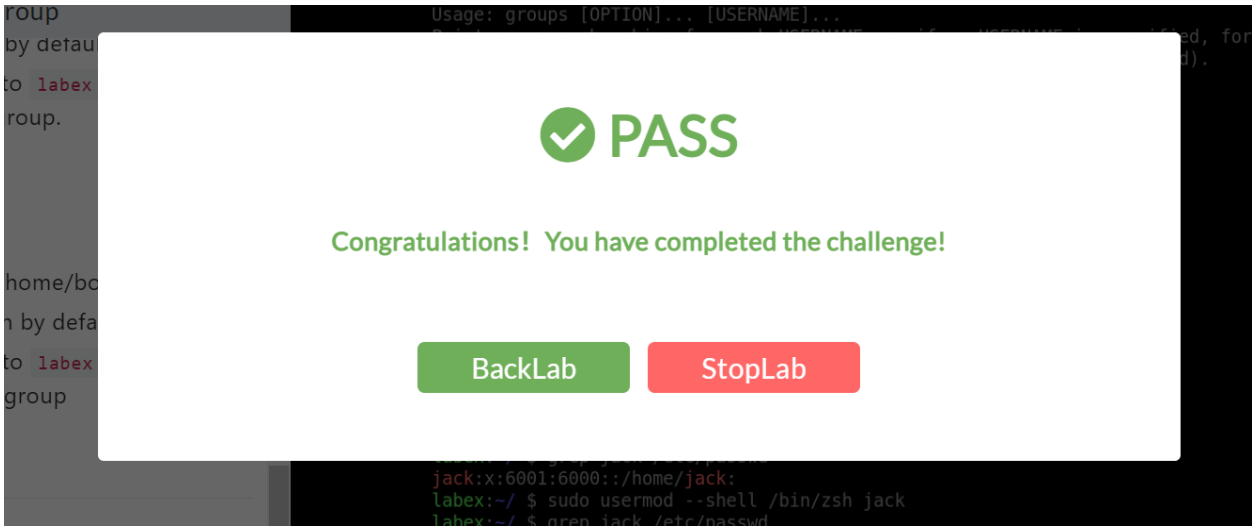
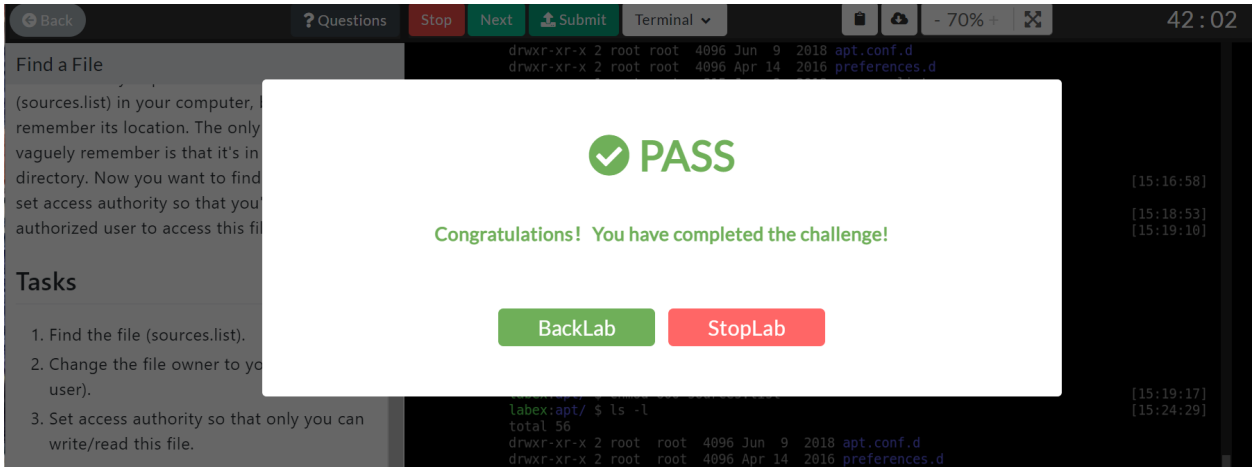
Maisha Ahmed - LabEx Homework

1. Add new user and group



First I looked up how to create a new user in linux, which led me to a website detailing all of the scenarios a System Admin could face with new users. I checked to see which groups were already made (labex), and created two new groups: dev and test. I created a new username ‘jack’ and gave him a home directory by adding -m to the useradd command. Then, I assigned him to his primary group, labex, and secondary group, dev. Then, I changed his default shell to zsh. I created the second username ‘bob’ and gave him a home directory, assigned him to his groups, and changed his shell to bash.

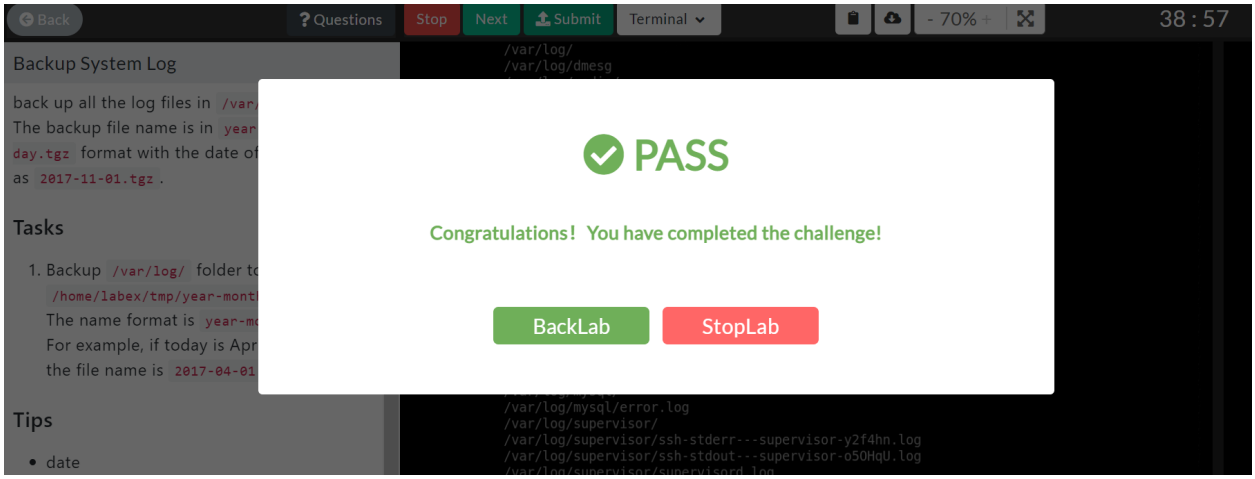
Find a File



First, I cd into /etc/. Then I used ls to see the contents of the /etc/ directory. I didn’t find the text file directly inside so I went back to the home directory. I used the fine command

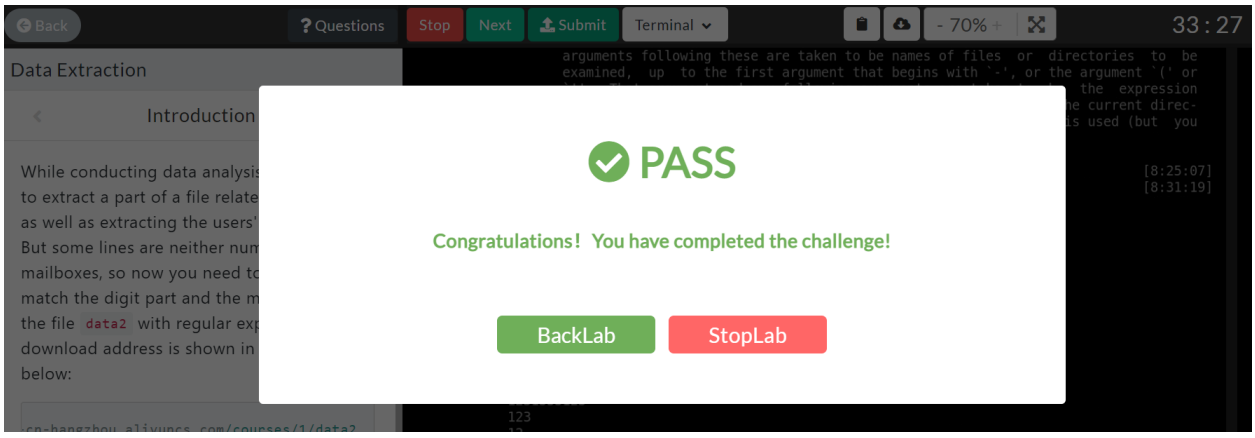
to search for the text file but permission was denied. I used sudo find and was able to locate the text file inside the apt directory. I cd into the apt directory and found the file. I used the ls -l command to see the permissions and ownership of the file. Then I used the sudo chown command to change the ownership to labex and chmod 600 command to change the permissions to read and write only.

Backup System Log



This challenge was harder than the last two. I looked up the date command and displayed the date on the terminal. Then I made a tmp directory in the home directory and made the backup file. Inside the tmp directory, I used the tar -cvfz command to make a backup of the /var/logs/ folder into the new backup file.

5. Data Extraction



First, I downloaded the data2 file. Next, I made two files, num and mail. I used the grep command to search for email addresses using the “@” sign and stored them in the mail file. Then I used a second grep command with options -Eo, a numeric range [0-4\.]+, and

stored them in the num file. Even though using the cat num command outputs a bunch of miscellaneous numbers along with the test data numbers, the labex system accepted it as correct.