# Lab 3, Week 4

**Due date:** Friday, February 03 23:30

See the lab partners file included with this weeks notes.

Make sure that you work with your lab partners. If a team member is absent contact them and work with them remotely via discord, zoom, ravens...

**Don't divide up the work, work on each question together.** It is important that you all learn the material in every lab.

Lab must be completed as a regular user, not the root user.

**Instructions**

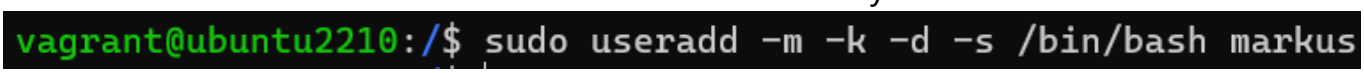
**Part one: 2 points**

Create a new regular user with the `useradd` utility. Your new users should have:

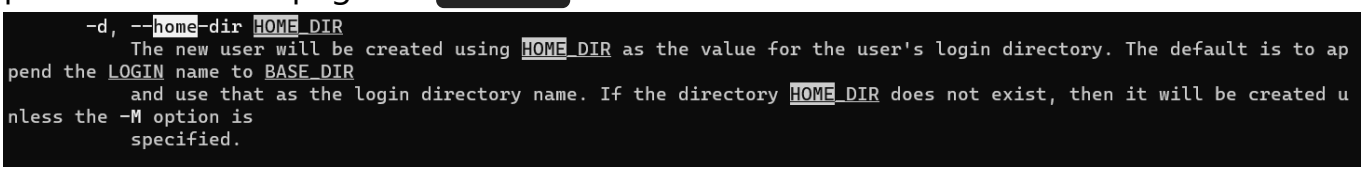
- a home directory /home/user-name
  - config files from /etc/skel should be copied to the new user's home directory
- use bash as their login shell

Include 4 screenshots for this.

Include 1 screenshot that demonstrates the command you used.




Include 2 screenshots that show where you found how to do both of the above bullet points in the man page for `useradd`



```
      -k, --skel SKEL_DIR
          The skeleton directory, which contains files and directories to be copied in the user's home directory, when
the home directory is created by
          useradd.

          This option is only valid if the -m (or --create-home) option is specified.

          If this option is not set, the skeleton directory is defined by the SKEL variable in /etc/default/useradd or,
 by default, /etc/skel.

          If possible, the ACLs and extended attributes are copied.
```

```
-s, --shell SHELL
    The name of the user's login shell. The default is to leave this field blank, which causes the system to
    select the default login shell specified by the SHELL variable in /etc/default/useradd, or an empty string
    by default.
```

Include a screenshot that demonstrates you succeeded in creating a new user by finding the new line created in a file that contains information about users. We have looked at this file a few times.

```
vagrant@ubuntu2210:/$ grep markus /etc/passwd
markus:x:1001:1001::/home/markus:/bin/bash
```

**Part two: 1 point**

Give your new user a password.

Submit a screenshot of the command that you used.

```
vagrant@ubuntu2210:/$ sudo passwd markus
New password:
Retype new password:
passwd: password updated successfully
```

**Part three: 1 point**

Give your new user permission to use sudo.

```
 -a, --append
     Add the user to the supplementary group(s). Use only with the -G option.
```

Submit a screenshot of the command you used.

```
vagrant@ubuntu2210:/$ sudo usermod -aG sudo markus
```

**Part four: 1 point**

Create a new system user with the name “weekfour”

Submit a screenshot of the command you used.

```
vagrant@ubuntu2210:/$ sudo useradd -r weekfour
```

**Part five: 2 points**

create a new week4 directory in `/var`

Make the weekfour user and group the owner of the week4 directory

Submit a screenshot of the command you used to change the ownership of the directory.

```
vagrant@ubuntu2210:/var$ sudo chown weekfour:weekfour week4
```

**Part six: 2 points**

create a new file in the week4 directory (file name is up to you)

Change the file's permission to match the following.

`rwxr---wx`

Submit a screenshot of the command you used to change the file's permission.

```
vagrant@ubuntu2210:/var/week4$ sudo chmod 743 week4.txt
```

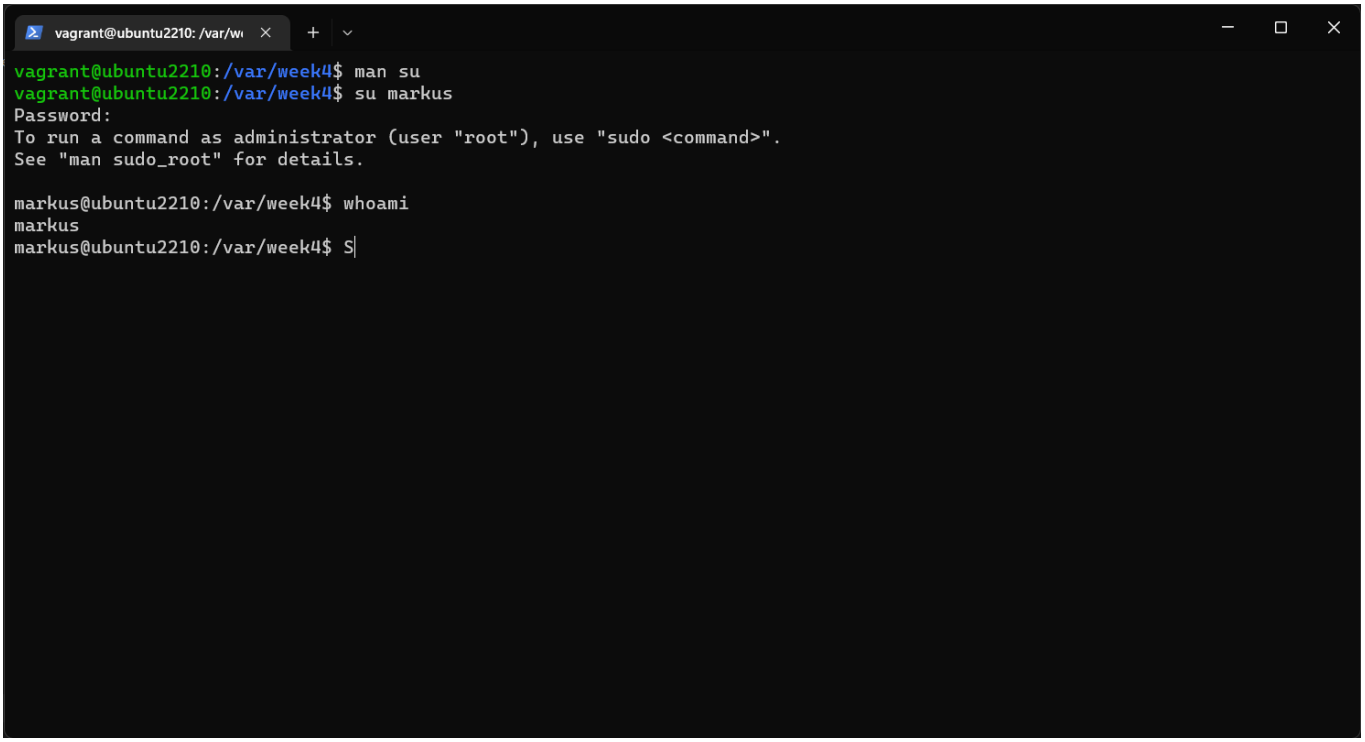
Include a note on why you think these permissions are odd.
This only needs to be 1-2 sentences.

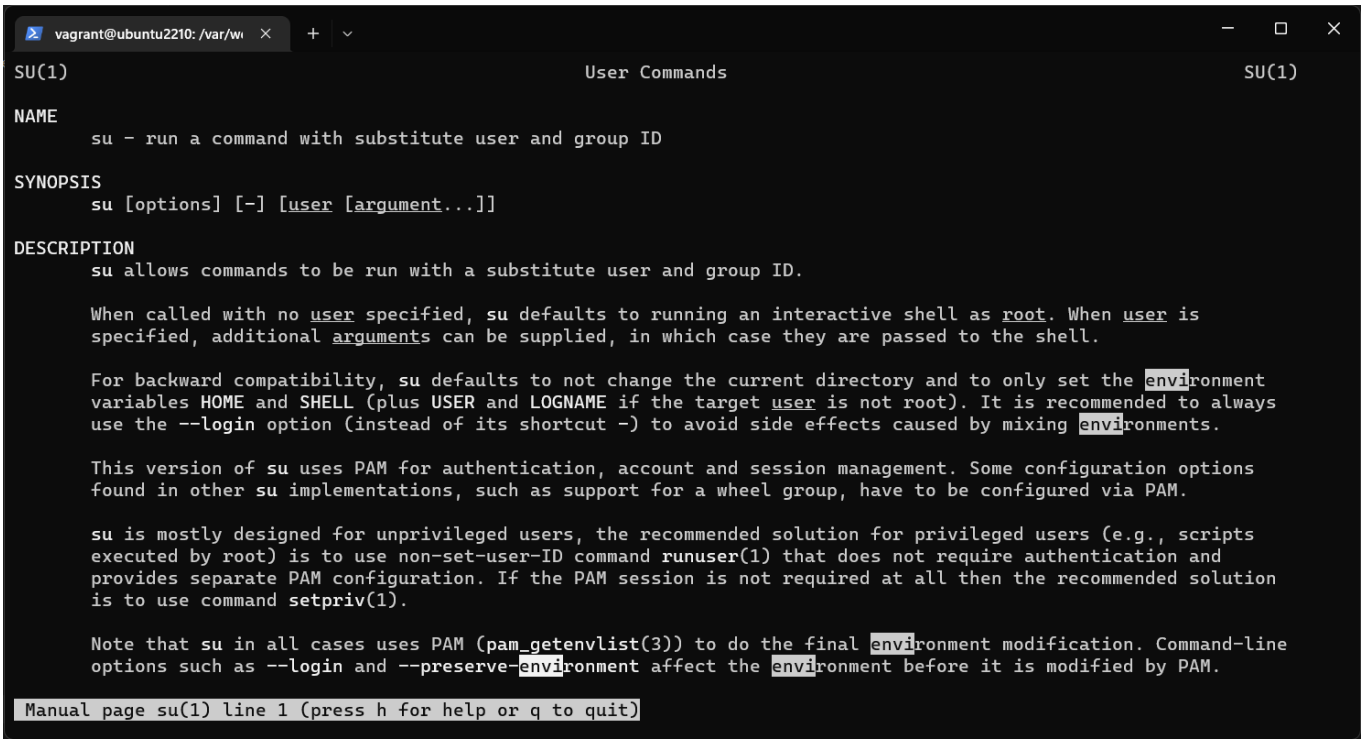
`I think these permission are odd because`

**Part seven: 2 points**

How could you change to your new regular user created in part one? Without logging out and logging back in again. In addition to becoming the new user, you want to inherit their environment variables and shell configuration.

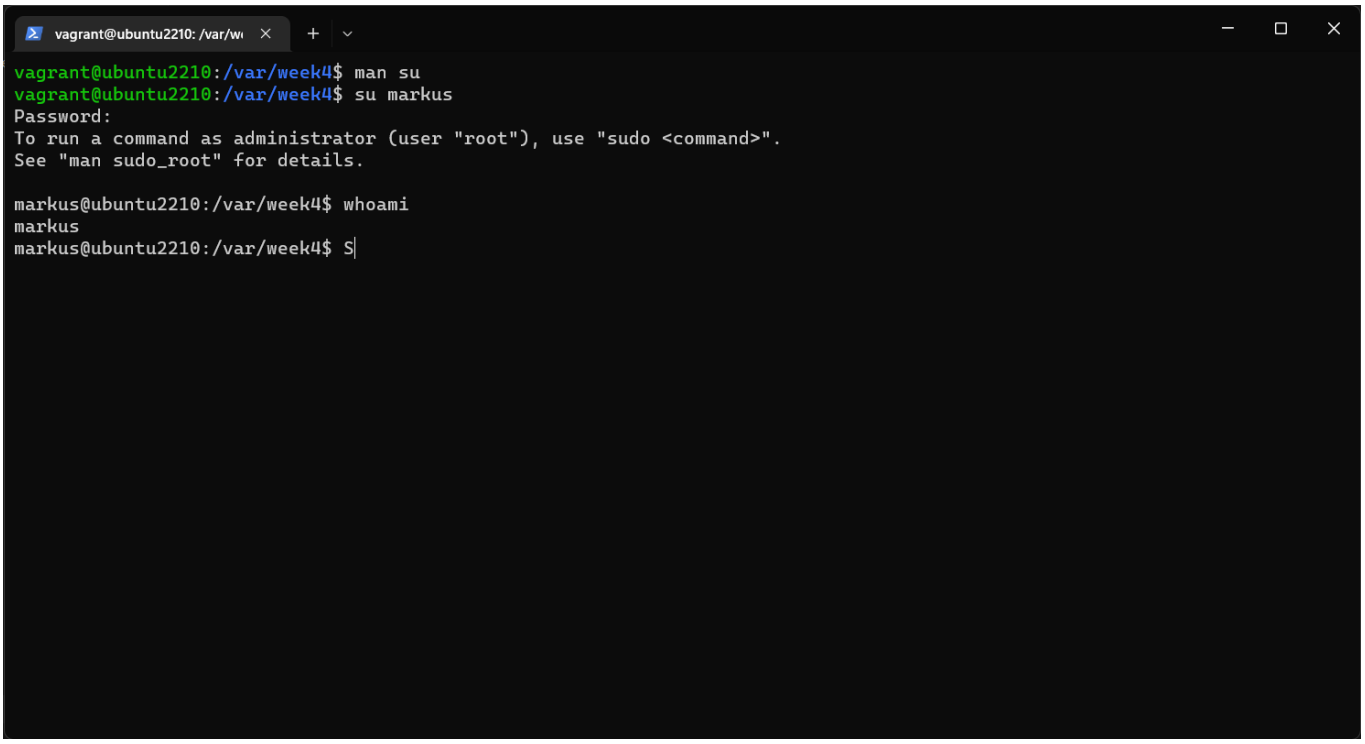
Include the command you found and citations to any resources you used.




You don't need to format your citation using any specific style guide.

A man page can be a resource.




**Total: 11 Points**

**Submission Instructions**

Submit a .pdf using the dropbox on D2L

Title your pdf “your-name-lab3.pdf” ie "nathan-mcninch-lab3.pdf”

File must be a .pdf.
Only one submission per team, make sure that all team members names are on the file.