7.4 Guided Exercise: Linux File Permissions

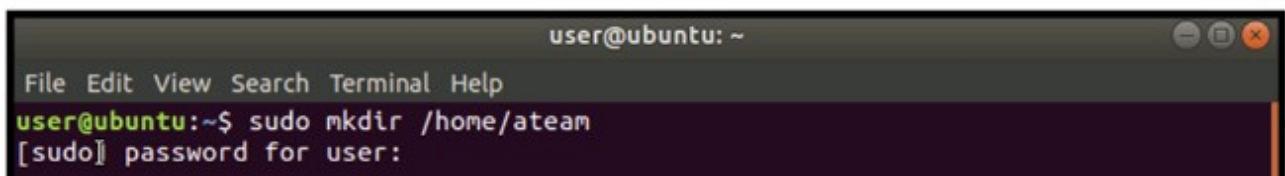| Resources	
Files	None
Machines	Ubuntu Server

Login to Ubuntu Server with the following credentials:

Username: user
Password: Pa$$w0rd

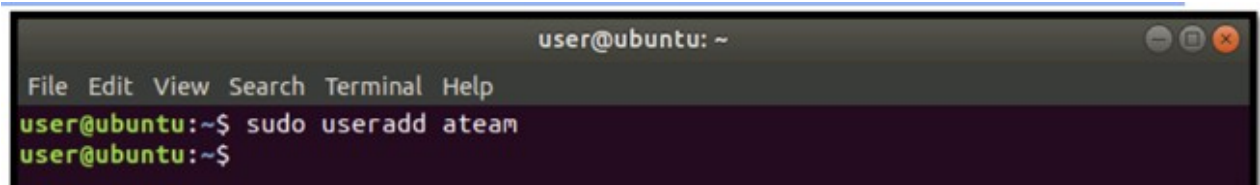Once logged in click on the terminal icon (last icon) on the left side menu.

Create a directory in /home called ateam with the command sudo mkdir /home/ateam. When prompted enter the user password and the press the enter button
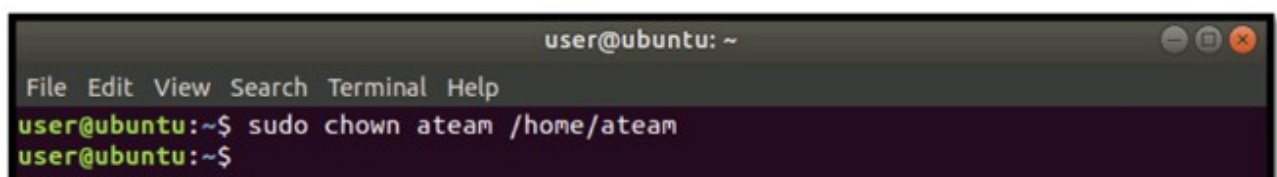

Create a user called ateam with the command sudo useradd ateam.

Change the user ownership of the ateam directory to the user ateam with the command sudo chown ateam /home/ateam

Create a group called admins with the command sudo groupadd admins

```
                        user@ubuntu: ~
File  Edit  View  Search  Terminal  Help
user@ubuntu:~$ sudo groupadd admins
user@ubuntu:~$
```

Ensure on the ateam directory the user ateam and group admins to have full permissions. All other users of the system should not have permissions. Use the command sudo chmod 770 /home/ateam.

```
                        user@ubuntu: ~
File  Edit  View  Search  Terminal  Help
user@ubuntu:~$ sudo chmod 770 /home/ateam/
user@ubuntu:~$
```

Confirm that you have set the correct permissions using the command sudo ls –ld /home/ateam

```
                        user@ubuntu: ~
File  Edit  View  Search  Terminal  Help
user@ubuntu:~$ sudo ls -ld /home/ateam/
drwxrwx--- 2 ateam root 4096 Jan 19 17:44 /home/ateam/
user@ubuntu:~$
```
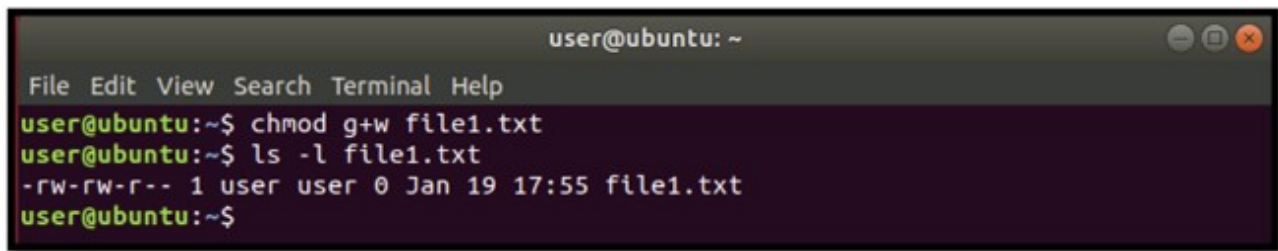
In your home directory create a file named file1.txt using the command touch file1.txt

```
                        user@ubuntu: ~
File  Edit  View  Search  Terminal  Help
user@ubuntu:~$ touch file1.txt
user@ubuntu:~$ 
```

View the permissions of the file using the command ls –l file1.txt

```
                        user@ubuntu: ~
File  Edit  View  Search  Terminal  Help
user@ubuntu:~$ ls -l file1.txt
-rw-r--r-- 1 user user 0 Jan 19 17:55 file1.txt
user@ubuntu:~$ 
```

Give to the group the write permission using the command chmod g+w file1.txt. Then confirm it using the command ls –l file1.txt