

7.4 Guided Exercise: Linux File Permissions

Resources

Files	None
Machines	Ubuntu Server

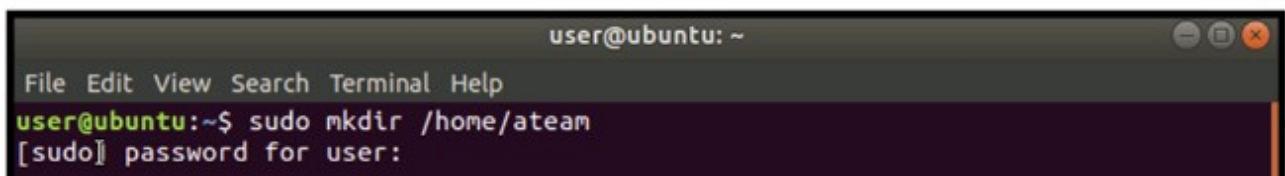
Login to Ubuntu Server with the following credentials:

Username: user

Password: Pa\$\$w0rd

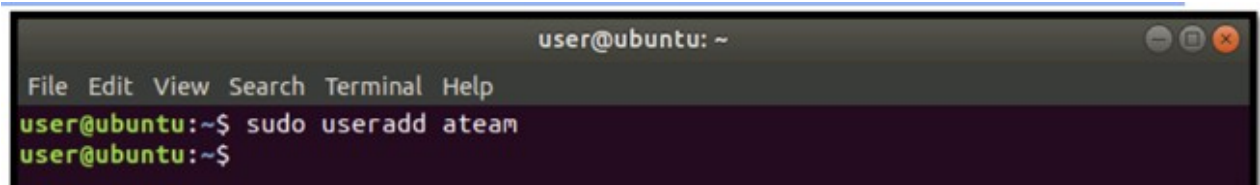
Once logged in click on the terminal icon (last icon) on the left side menu.

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



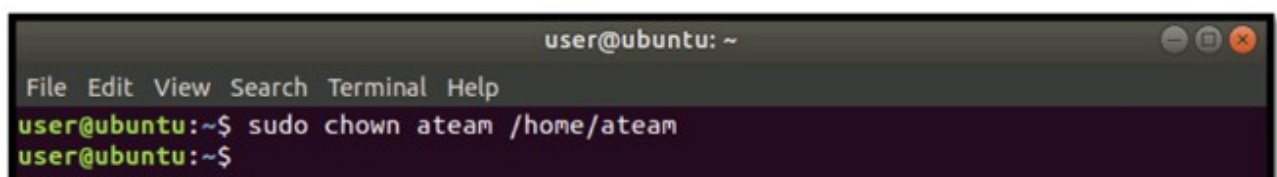
```
user@ubuntu: ~  
File Edit View Search Terminal Help  
user@ubuntu:~$ sudo mkdir /home/ateam  
[sudo] password for user:
```

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



```
user@ubuntu: ~  
File Edit View Search Terminal Help  
user@ubuntu:~$ sudo useradd ateam  
user@ubuntu:~$
```

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



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

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:~$
```

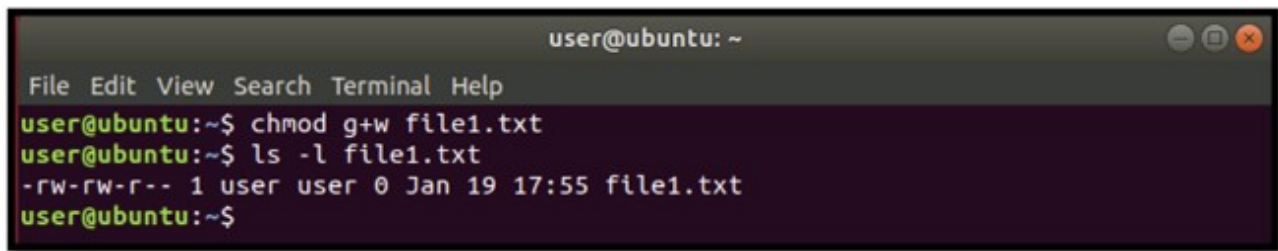
In your home directory create a file named file1.txt using the command `touch file1.txt`

```
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`

A terminal window titled 'user@ubuntu: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following commands and output:

```
user@ubuntu:~$ chmod g+w file1.txt
user@ubuntu:~$ ls -l file1.txt
-rw-rw-r-- 1 user user 0 Jan 19 17:55 file1.txt
user@ubuntu:~$
```

The terminal window has a dark background with light green text. The prompt 'user@ubuntu:~\$' is shown in light green. The output of the 'ls -l' command is shown in white text.