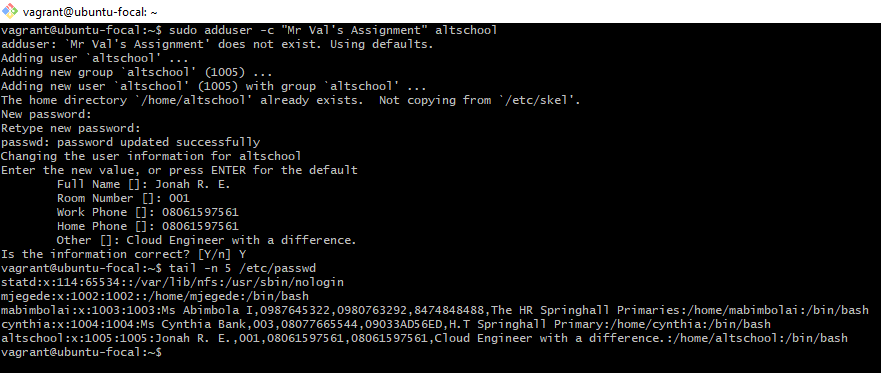
This is creating a user ‘altschool’ as my login. Since using sudo cmds returns error I decided to run it using the root user.

****

**Login user created:**

vagrant@ubuntu-focal:~$ sudo adduser -c "Mr Val's Assignment" altschool

adduser: `Mr Val's Assignment' does not exist. Using defaults.

Adding user `altschool' ...

Adding new group `altschool' (1005) ...

Adding new user `altschool' (1005) with group `altschool' ...

The home directory `/home/altschool' already exists. Not copying from `/etc/skel'.

New password:

Retype new password:

passwd: password updated successfully

Changing the user information for altschool

Enter the new value, or press ENTER for the default

Full Name []: Jonah R. E.

Room Number []: 001

Work Phone []: 08061597561

Home Phone []: 08061597561

Other []: Cloud Engineer with a difference.

Is the information correct? [Y/n] Y

vagrant@ubuntu-focal:~$ tail -n 5 /etc/passwd

statd:x:114:65534::/var/lib/nfs:/usr/sbin/nologin

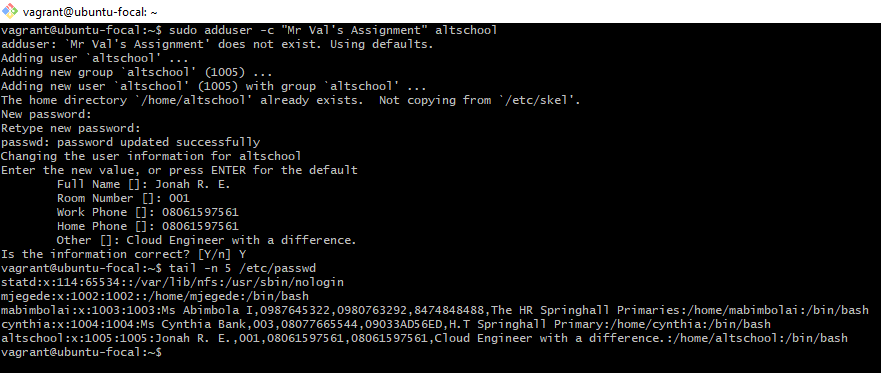
mjegede:x:1002:1002::/home/mjegede:/bin/bash

mabimbolai:x:1003:1003:Ms Abimbola I,0987645322,0980763292,8474848488,The HR Springhall Primaries:/home/mabimbolai:/bin/bash

cynthia:x:1004:1004:Ms Cynthia Bank,003,08077665544,09033AD56ED,H.T Springhall Primary:/home/cynthia:/bin/bash

altschool:x:1005:1005:Jonah R. E.,001,08061597561,08061597561,Cloud Engineer with a difference.:/home/altschool:/bin/bash

vagrant@ubuntu-focal:~$



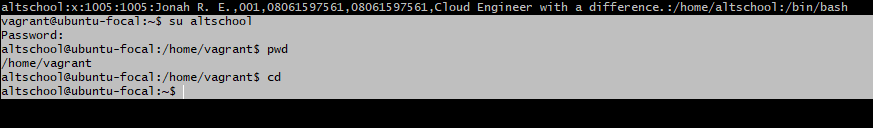
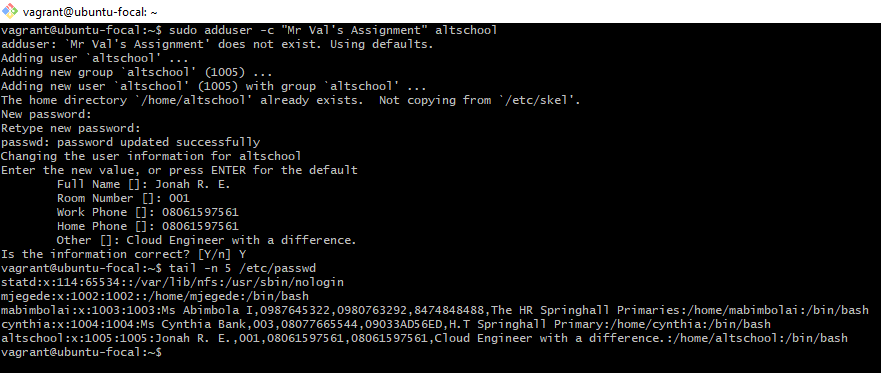
**View User Added**

vagrant@ubuntu-focal:~$ tail -n 2 /etc/passwd

cynthia:x:1004:1004:Ms Cynthia Bank,003,08077665544,09033AD56ED,H.T:/home/cynthia:/bin/bash

altschool:x:1005:1005:Jonah R. E.,001,08061597561,08061597561,Cloud Engineer with a difference.:/home/altschool:/bin/bash

vagrant@ubuntu-focal:~$

****

**Switching To Added user**

vagrant@ubuntu-focal:~$ su altschool

Password:

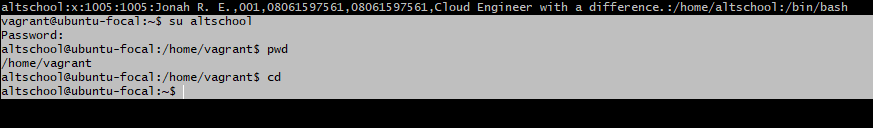
altschool@ubuntu-focal:/home/vagrant$ cd /

altschool@ubuntu-focal:/$ cd

altschool@ubuntu-focal:~$ pwd

/home/altschool

altschool@ubuntu-focal:~$

****

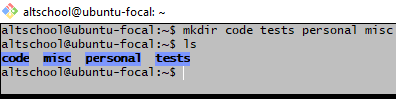
**Making Directories**

altschool@ubuntu-focal:~$ mkdir code tests personal misc

altschool@ubuntu-focal:~$ ls

code misc personal tests

altschool@ubuntu-focal:~$



1. **Change directory to the tests directory using absolute pathname**

altschool@ubuntu-focal:~$ ls

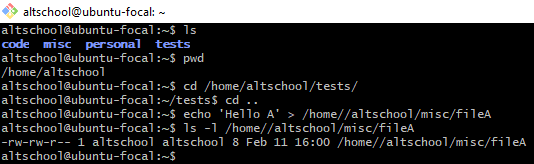
code misc personal tests

altschool@ubuntu-focal:~$ pwd

/home/altschool

altschool@ubuntu-focal:~$ cd /home/altschool/tests/

altschool@ubuntu-focal:~/tests$

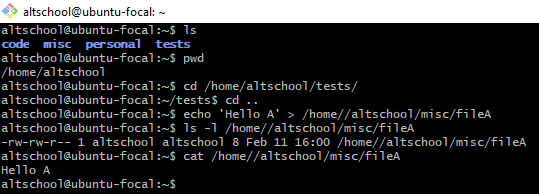


1. **Change directory to the tests directory using relative pathname**

altschool@ubuntu-focal:~$ cd /home/altschool/tests/

altschool@ubuntu-focal:~/tests$ cd ..

altschool@ubuntu-focal:~$



1. **Use echo command to create a file named fileA with text content ‘Hello A’ in the misc directory**

altschool@ubuntu-focal:~/tests$ cd ..

altschool@ubuntu-focal:~$ echo 'Hello A' > /home//altschool/misc/fileA

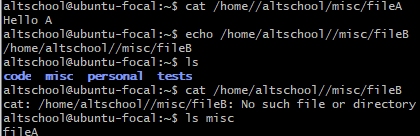
altschool@ubuntu-focal:~$ ls -l /home//altschool/misc/fileA

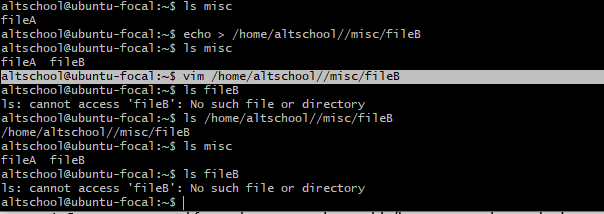
-rw-rw-r-- 1 altschool altschool 8 Feb 11 16:00 /home//altschool/misc/fileA

altschool@ubuntu-focal:~$ cat /home//altschool/misc/fileA

Hello A

altschool@ubuntu-focal:~$





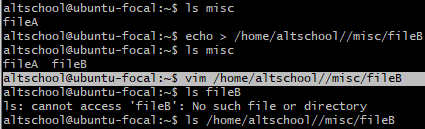
1. **Create an empty file named fileB in the misc directory. Populate the file with a dummy content afterwards**

altschool@ubuntu-focal:~$ echo > /home/altschool//misc/fileB

altschool@ubuntu-focal:~$ ls misc

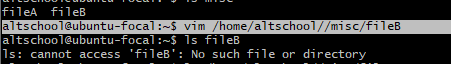
fileA fileB

altschool@ubuntu-focal:~$



**Populate the file with a dummy content afterwards**

altschool@ubuntu-focal:~$ vim /home/altschool//misc/fileB



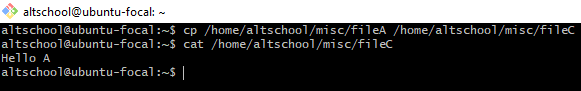
1. **Copy contents of fileA into fileC**

altschool@ubuntu-focal:~$ cp /home/altschool/misc/fileA /home/altschool/misc/fileC

altschool@ubuntu-focal:~$ cat /home/altschool/misc/fileC

Hello A

altschool@ubuntu-focal:~$



1. **Move contents of fileB into fileD**

altschool@ubuntu-focal:~$ mv /home/altschool/misc/fileB /home/altschool/misc/fileD

altschool@ubuntu-focal:~$ cat /home/altschool/misc/fileD

s is a very dummy content just like the Lorem Ipsum

Do not be carried away.

altschool@ubuntu-focal:~$



1. **Create a tar archive called misc.tar for the contents of misc directory**

altschool@ubuntu-focal:~$ tar -cvf misc.tar misc/

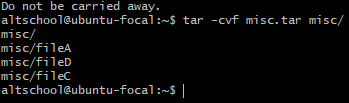
misc/

misc/fileA

misc/fileD

misc/fileC

altschool@ubuntu-focal:~$



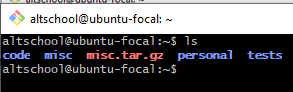
1. **Compress the tar archive to create a misc.tar.gz file**

altschool@ubuntu-focal:~$ gzip misc.tar

altschool@ubuntu-focal:~$ ls

code misc misc.tar.gz personal tests

altschool@ubuntu-focal:~$



1. **Create a user and force the user to change his/her password upon login**

vagrant@ubuntu-focal:~$ sudo useradd jayGreat

vagrant@ubuntu-focal:~$

vagrant@ubuntu-focal:~$ sudo passwd --expire jayGreat

passwd: password expiry information changed.

vagrant@ubuntu-focal:~$

vagrant@ubuntu-focal:~$ passwd jayGreat

passwd: You may not view or modify password information for jayGreat.

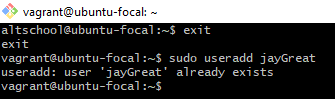
vagrant@ubuntu-focal:~$ sudo passwd jayGreat

New password:

Retype new password:

passwd: password updated successfully

vagrant@ubuntu-focal:~$



1. **Lock a users password**

altschool@ubuntu-focal:~$ sudo usermod -L jayGreat

altschool@ubuntu-focal:~$ sudo tail -n 3 /etc/shadow

altschool:$6$UBzeF.rXdGiN1C5s$266GBhjAILzKjPBpfnNzCcPD6UzvBIv8uMw.JnrPk7E0Vq0XsK

seAc8vLAcNZf4NQXWgnp6LTGKECYLwN.G0e0:19764:0:99999:7:::

jayGreat:!$6$Kz2Ad7Ue/JCyi2kO$N/bccXfJKjOmXdZZ7CcKvn3MkMVINn8cGWh5UBlino7rgfqqlP

8j11ctJ50FGco46RA0xeq4CK0I98vN2ZKgR1:19764:0:99999:7:::

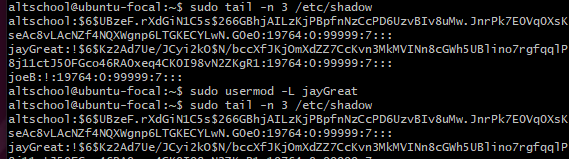
joeB:!:19764:0:99999:7:::

altschool@ubuntu-focal:~$ su jayGreat

Password:

su: Authentication failure

altschool@ubuntu-focal:~$

****

1. **Create a user with no login shell**

altschool@ubuntu-focal:~$ sudo useradd -s /sbin/nologin joeB

[sudo] password for altschool:

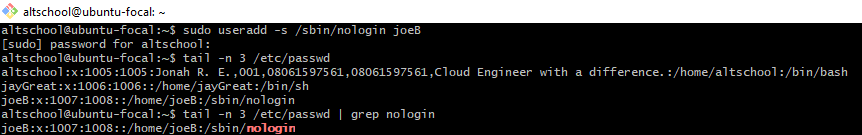
altschool@ubuntu-focal:~$ tail -n 3 /etc/passwd

altschool:x:1005:1005:Jonah R. E.,001,08061597561,08061597561,Cloud Engineer with a difference.:/home/altschool:/bin/bash

jayGreat:x:1006:1006::/home/jayGreat:/bin/sh

joeB:x:1007:1008::/home/joeB:/sbin/nologin

altschool@ubuntu-focal:~$



**L - M Disable password based authentication for ssh and Disable root login for ssh**

altschool@ubuntu-focal:~$ sudo vi /etc/ssh/sshd\_config

:set nu and locate the number where authentication is written and set it to no as below.

#PermitRootLogin no

And also passwordAuthentication no

altschool@ubuntu-focal:~$ sudo vi /etc/passwd

altschool@ubuntu-focal:~$ sudo service sshd restart

altschool@ubuntu-focal:~$

