

Assignment 5: User accounts and groups

Part 1: Create group and user accounts

Follow each step and record the commands that accomplishes each task for each step.

Tip: you need to use root account for most of these operations (i.e. sudo).

Tip: Read the output of each command carefully to verify there were no errors or warnings!

1. Create a group called “developers” using “addgroup” command. (Ans 1)
2. Make a directory /projects/bigdeal (Ans 2)
 - a. Hint: `mkdir` has a “-p” option!
3. Make sure /projects/bigdeal is owned by “root” and belongs to “developers” group (Ans 3)
 - a. Hint: you can either use `chgrp` command, or use `chown <user>:<group> </path/to/dir>`
4. The directory must be full access for the owner and the group, with no access for any other users and it must have the **set-group-id** bit turned **on**. (Ans 4)
 - a. Hint: use `chmod -R` command.
 - b. Hint: Look up the numeric values (the #'s) in the two tables from the lecture so you can do everything using one `chmod` command as shown below.
 - i. \$: `sudo chmod -R #### /projects/bigdeal`
5. Create a subdirectory incoming under bigdeal: /projects/bigdeal/incoming, and verify that the “incoming” directory have full access for the owner and the group, with no access for any other users and it must have the **set-group-id** bit turned **on** as well (same as its parent directory).
 - a. Copy the output of `sudo ls -la /projects/bigdeal` as your answer for this step. (Ans 5)
6. Create user accounts for harry, sally, and cupid. (Commands are given below so you don't need to record anything as answers for the steps 6 and 7)
 - a. \$: `sudo adduser harry`
 - b. \$: `sudo adduser sally`
 - c. \$: `sudo adduser cupid`
7. Add all three user accounts to “developers” group:
 - a. \$: `sudo adduser harry developers`
 - b. \$: `sudo adduser sally developers`
 - c. \$: `sudo adduser cupid developers`

Part 2: user collaboration!

Log in to harry account and create a file called myclothes.txt. Add 5 lines of text in this file containing some clothing items. Then copy the file to the projects incoming folder with filename “harry” as shown below.

```
sudo login harry
nano myclothes.txt
cp myclothes.txt /projects/bigdeal/incoming/harry
logout
```

Log in to sally account. Create a file named myfurniture.txt with 5 lines of text containing some furniture items. Then copy the file to the projects incoming folder with filename “sally”. Again, the commands are shown below.

```
sudo login sally
nano myfurniture.txt
cp myfurniture.txt /projects/bigdeal/incoming/sally
logout
```

Log into the cupid account and perform the following tasks:

1. Using the paste command create a file called "when-harry-met-sally.txt" in /projects/bidgeal/
 - a. `$: cd /projects/bigdeal/incoming`
 - b. `$: paste harry sally > ../when-harry-met-sally.txt`
2. Use the cat command to display the contents of the file:
 - a. `$: cd ..`
 - b. `$: cat when-harry-met-sally.txt`
3. Take a screenshot of your console showing the cat command and the output (Screenshot1.png)

Submission of the results to Blackboard

1. Add the text submissions and use the following format for your answers from Part 1. You can copy and paste the cell below in a text editor, insert you commands for each line and then copy and paste into the text submission box on blackboard.

Part1 answers:

Ans 1: (addgroup command)

Ans 2: (mkdir command)

Ans 3: (chown or chgrp command)

Ans 4: (chmod command)

Ans 5: (output of sudo ls -la /projects/bigdeal command)

2. Upload Screenshot1.png file you took at the end of Part 2.