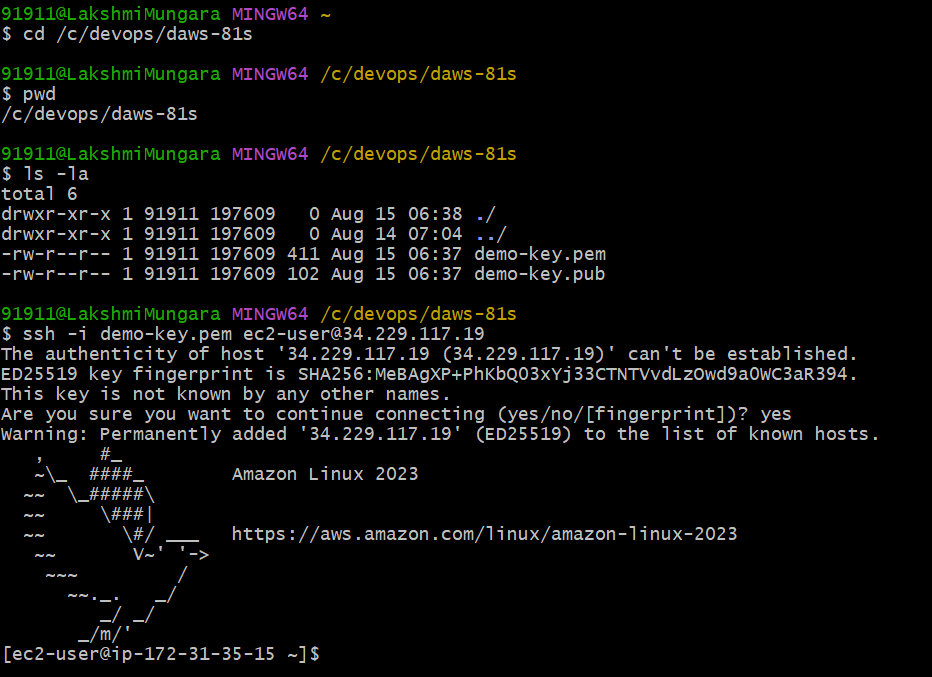
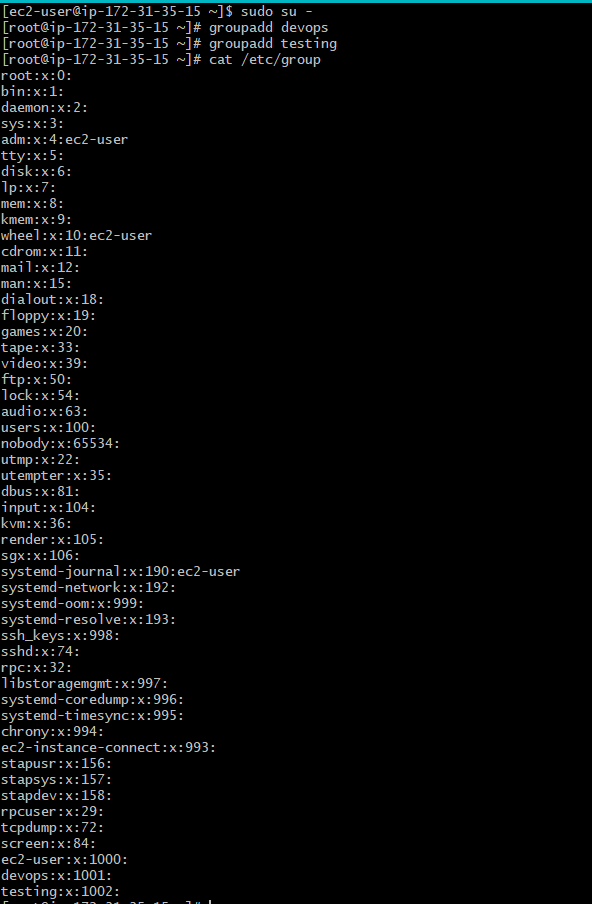
**Task-2:**

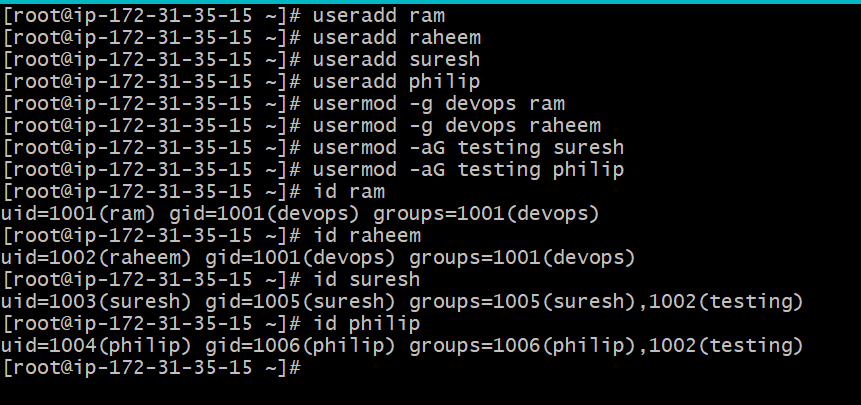
**Step-1: Connecting to the server**



* Creating two groups **devops** and **testing**

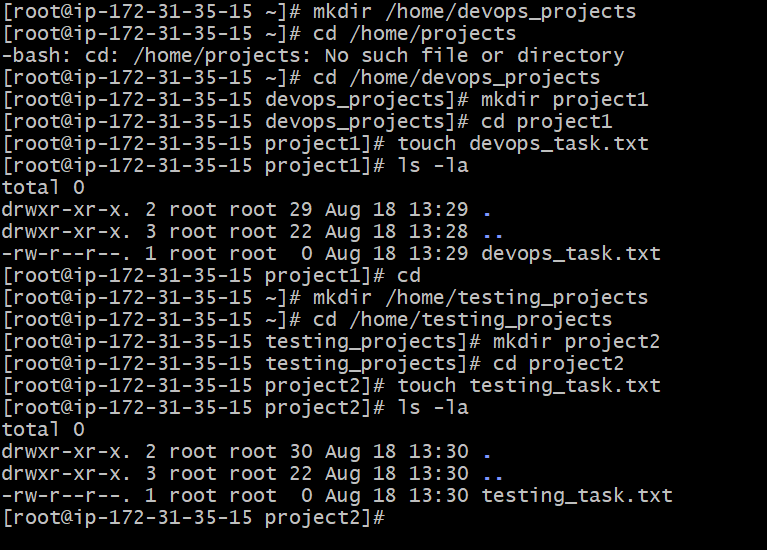


* Creating four users: **ram, raheem, suresh**, and **philip**
* Assigning **ram** and **raheem** to the **devops** group
* Assigning **suresh** and **philip** to the **testing** group



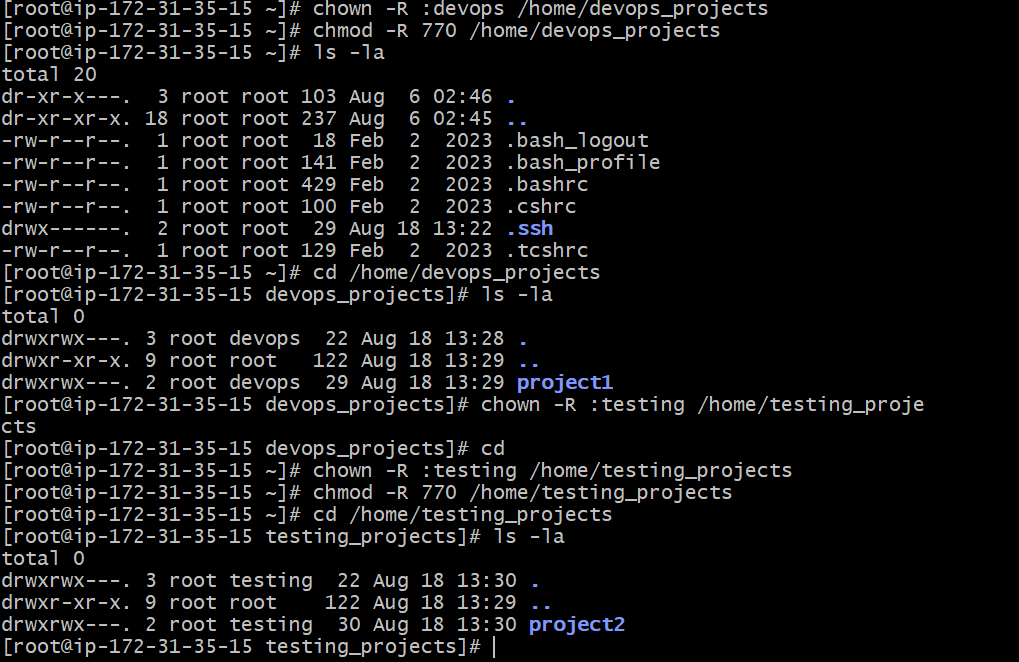
### Step-2: Directory and File Setup

* Creating a directory structure under **/home/devops\_projects** for the **devops** group and **/home/testing\_projects** for the **testing** group
* Inside **/home/devops\_projects**, creating a subdirectory **project1** with a file **devops\_task.txt**
* Inside **/home/testing\_projects**, creating a subdirectory **project2** with a file **testing\_task.txt**

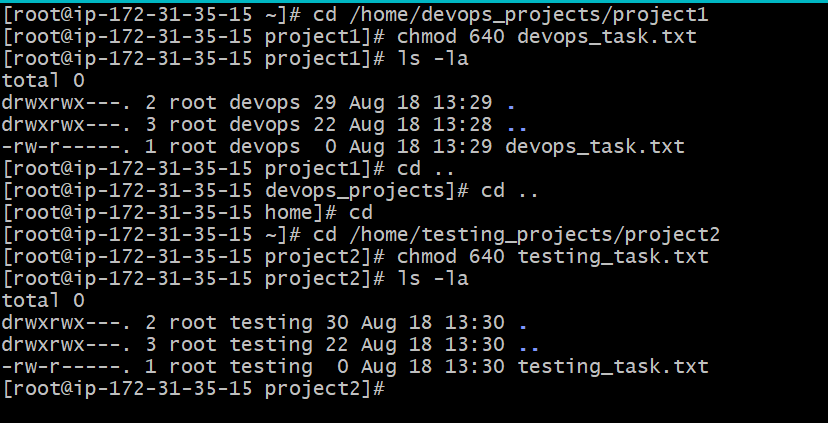


**Step-3**: **Set Permissions**

* Assign ownership of the **devops\_projects**directory and its contents to the **devops** group.
  + Ensure that only members of the **devops** group have read, write, and execute permissions.
* Assign ownership of the **testing\_projects** directory and its contents to the **testing** group.
  + Ensure that only members of the **testing** group have read, write, and execute permissions.



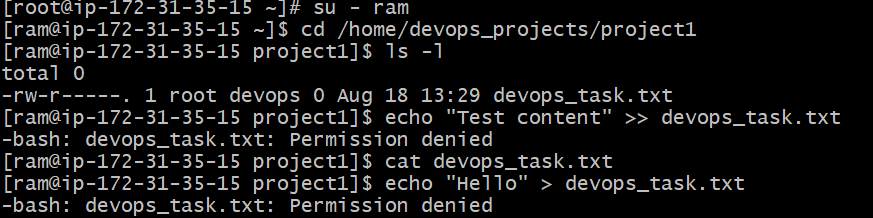
* Ensure that the files **devops\_task.txt** and **testing\_task.txt** are writable only by their respective owners and readable by their respective groups.

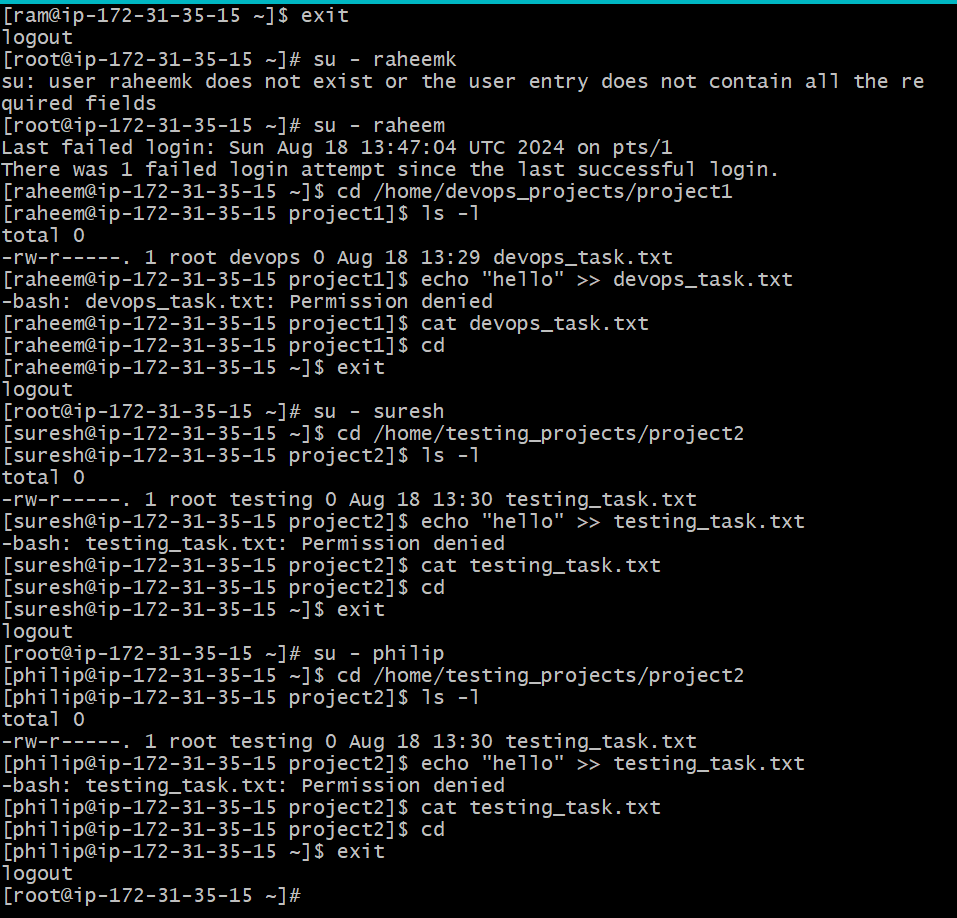


**Step-4: Testing and Verification**

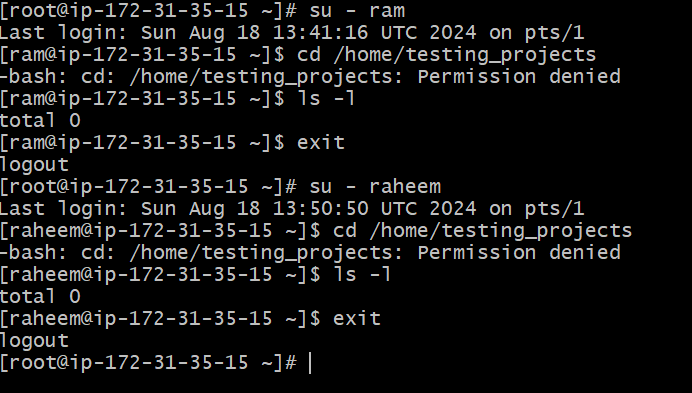
Test access by having each user:

* Verify that **ram** and **raheem** can access and modify files in the **devops\_projects/project1** directory.
* Verify that **suresh** and **philip** can access and modify files in the **testing\_projects/project2** directory.



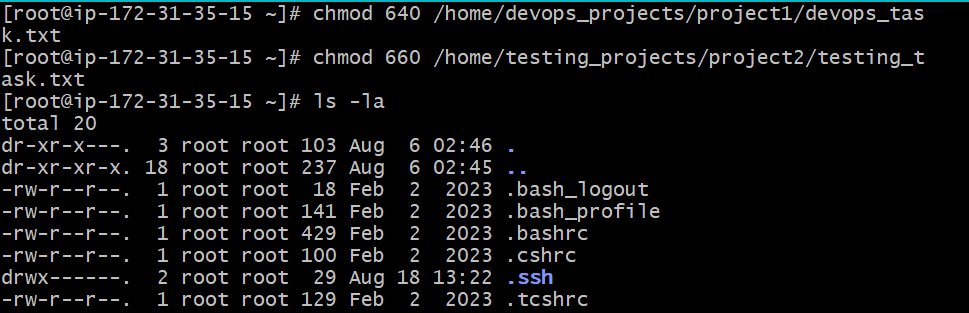


* Confirm that users in the **devops** group cannot access files in the **testing\_projects** directory and vice versa

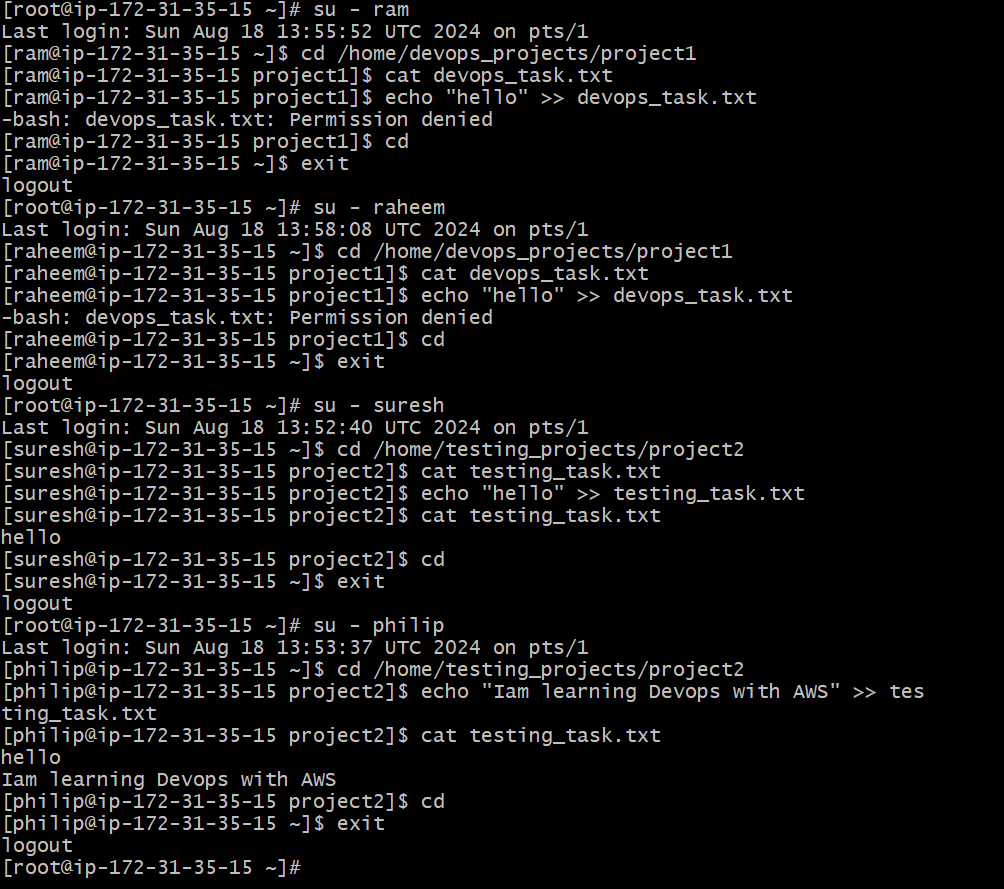


**Step-5: Change Modifications**

* Modify the permissions of the **project1** and **project2** directories
* Change permissions so that the **devops\_task.txt** file is only readable(not writable) by members of the **devops** group
* Change permissions so that the **testing\_task.txt** file is only writable(not readable) by members of the testing group



* Test these changes by having each user attempts to read and write to the modified files and directories



-----------------------------------------------------------**Task Completed**-------------------------------------------------------------