Introduction to Linux and Bash Scripting

Lab 2

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Track: Data Engineer – Zagazig

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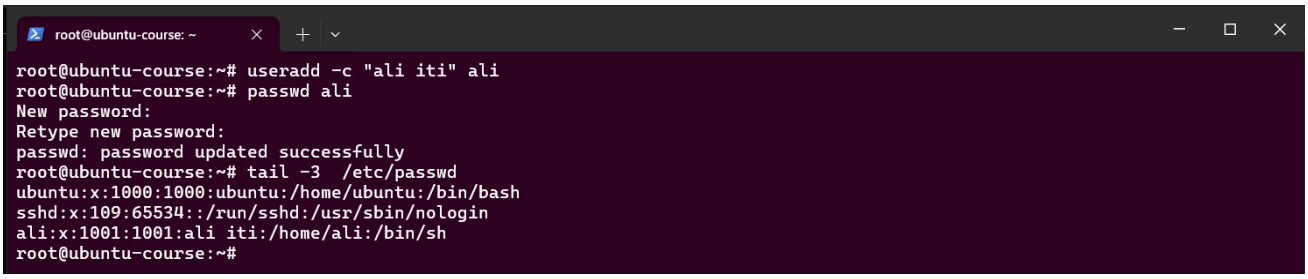
1. **Create a user account with the following attribute**

   Username: ali

   Fullname/comment: ali iti

   Password: ali?



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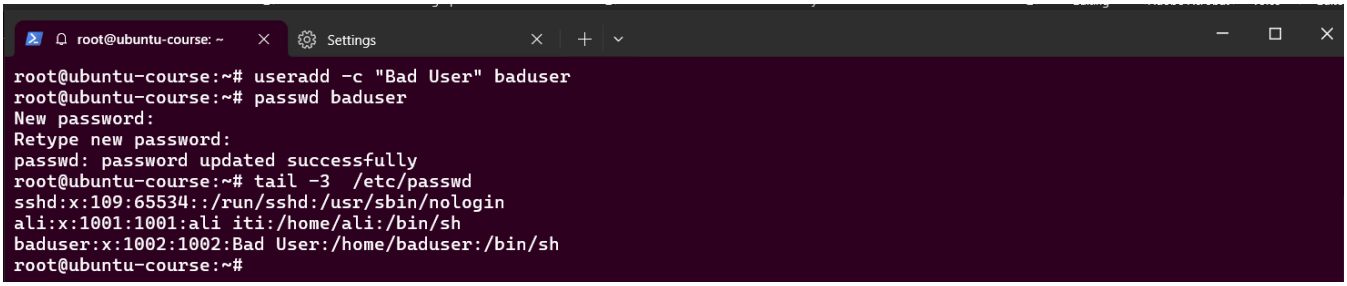
2. **Create a user account with the following attribute**

   Username: baduser

   Fullname/comment: Bad User

   Password: baduser?



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3. **Create a supplementary (Secondary) group called pgroup with group ID of 30000**

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4. Create a supplementary group called badgroup

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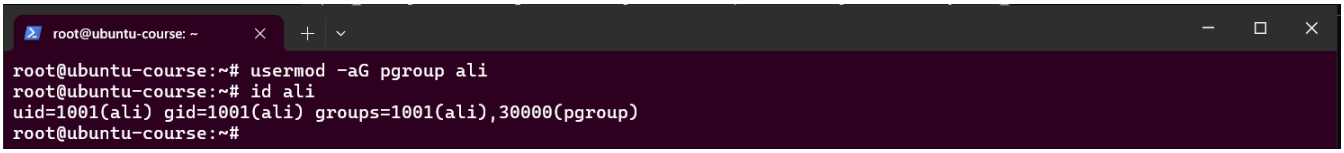
5. Add ali user to the pgroup group as a supplementary group.



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6. Modify the password of ali's account to ***password***.

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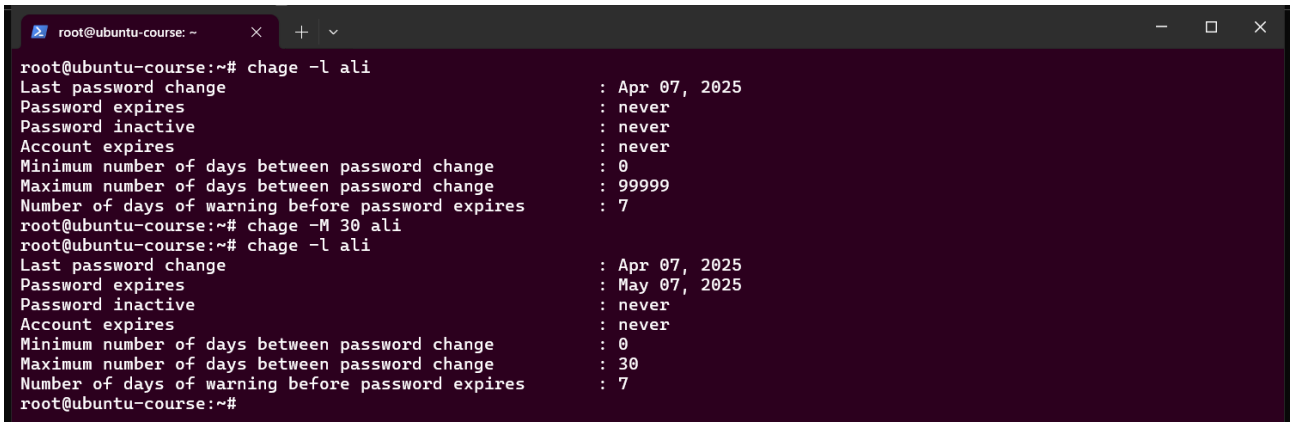
7. Modify ali's account so the password expires after 30 days.



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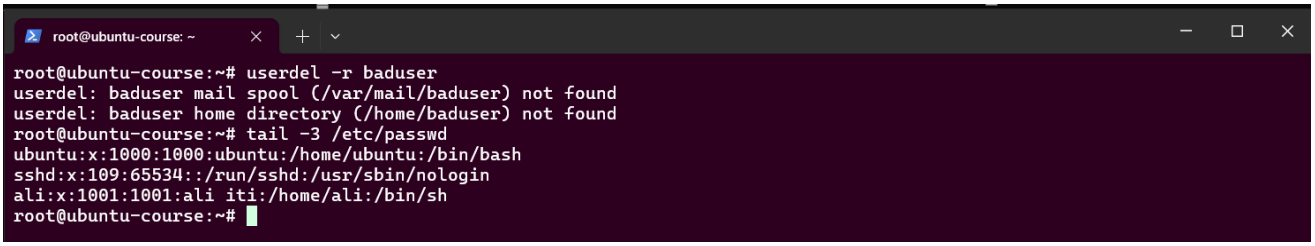
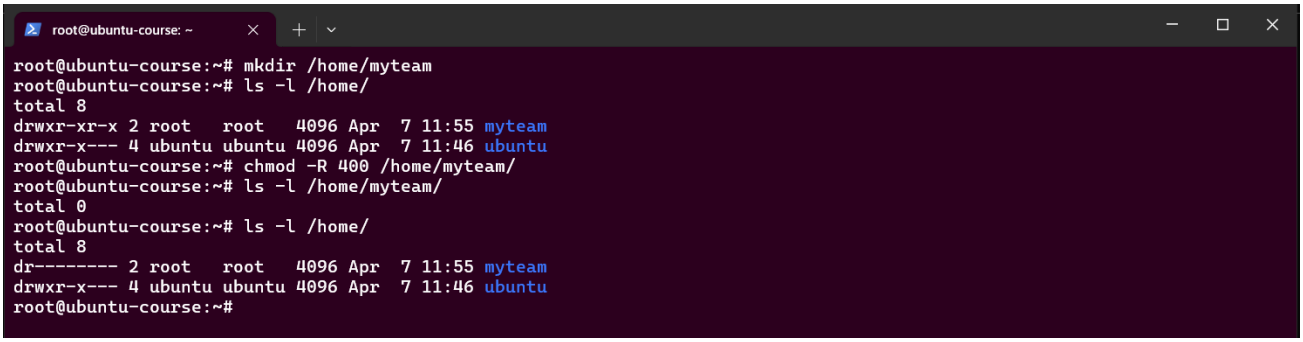
8. Lock bad user account so he can't log in

9. **Delete bad user account**



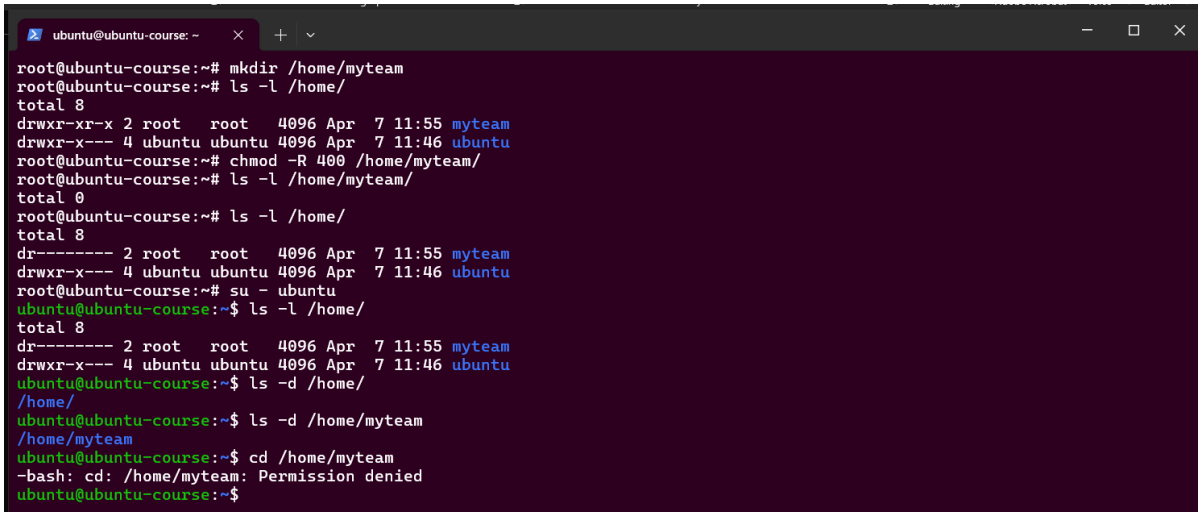
10. **Delete the supplementary group called badgroup.**

11. **Create a folder called myteam in your home directory and change its permissions to read only for the owner.**



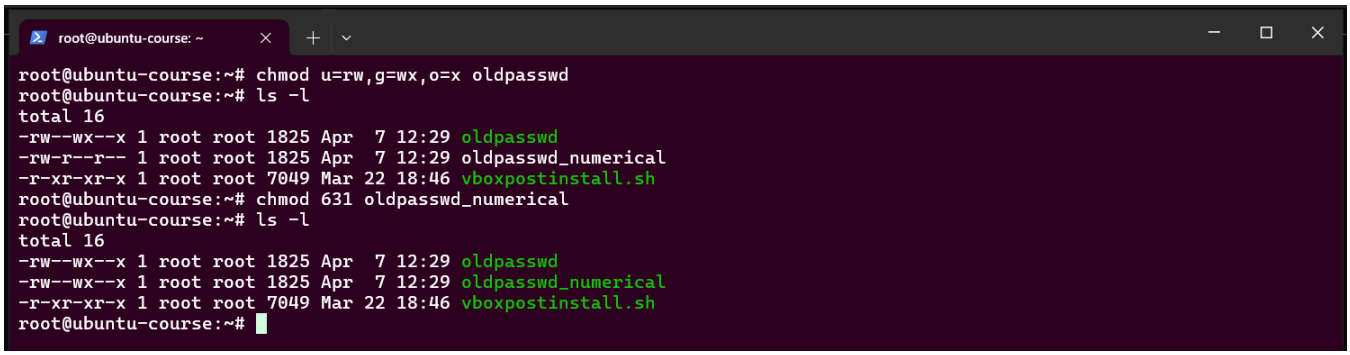
Can use symbolic but here we just want the owner to read and no others I go with numerical way.

12. **Log out and log in by another user**
13. **Try to access (by cd command) the folder (myteam)**



14. **Using the command Line: Change the permissions of oldpasswd file to give owner read and write permissions and for group write and execute and execute only for the others (using chmod in 2 different ways)**

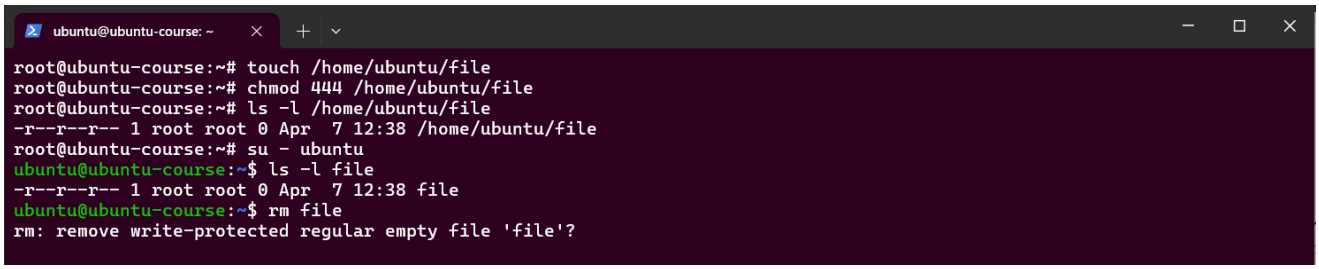
    I created a copy of oldpasswd as oldpasswd_numerical for chmod using numerical method

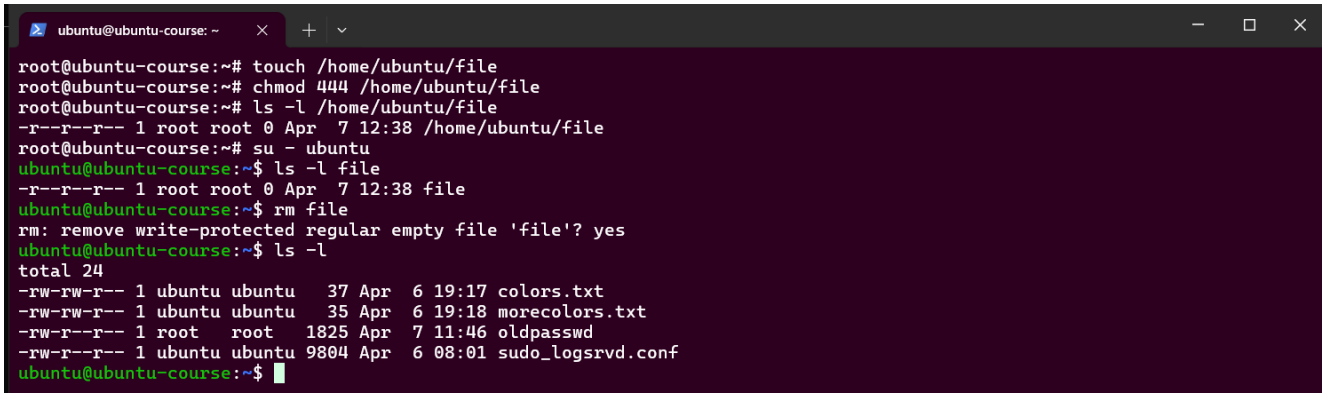


15. **Not required**

16. **Create a file with permission 444. Try to edit in it and to remove it? Note what happened**

when I was a root, I could delete the file without any massage but when I switched to another user I got a warning for deleting write protected





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17. **What is the difference between the "x" permission for a file and for a directory?**

Effect on files: a file can be executed (commands/scripts)
Effect on dir: contents of the dir can be accessed → cd

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18. **What are the minimum permission needed for:**
    a. **Copy a directory (permission for source directory and permissions for target parent directory)**
    read and execute for source directory, *write and execute* for *target* parent directory
    b. **Copy a file (permission for source file and and permission for target parent directory)**
    read for source file, *write and execute* for *target* parent directory
    c. **Delete a file**
    Write and excute (not sure if we need an execute for the parent directory because we need to access it to modify or not!)
    d. **Change to a directory**
    execute

e. **List a directory content (ls command)**
   read and excute.
f. **View a file content (more/cat command))**
   read
g. **Modify a file content**
   write