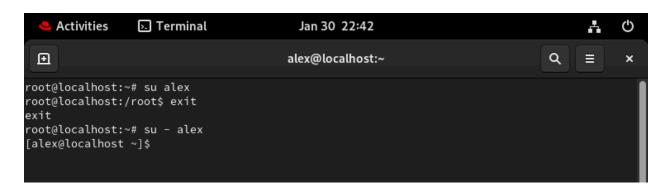
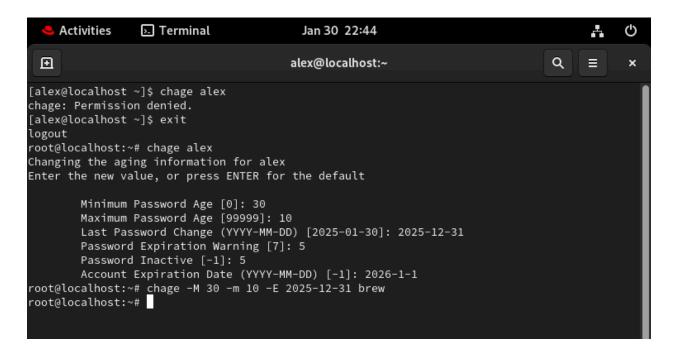
1. Create some users: o Named "alex" with its home directory at /home/user1 and give password "pass1". o Named "brew" with its home directory at /mnt/user 2 and give password "pass2". o Named "nora" without its home directory o Named "panny" with custom UID 2112, and assign password "pass-4" o Named 'texas' without using the useradd or adduser commands. *(Hint: Make changes in the 7 user configuration files)

```
root@localhost:~# useradd -m -d /home/user1 alex
root@localhost:~# passws alex
bash: passws: command not found
root@localhost:~# passwd alex
Changing password for user alex.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
root@localhost:~# useradd -m -d /mnt/user2 brew
root@localhost:~# passwd brew
Changing password for user brew.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
root@localhost:~# useradd -M nora
root@localhost:~# useradd -u 2112 panny
root@localhost:~# passwd panny
Changing password for user panny.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
root@localhost:~# nano /etc/passwd
root@localhost:~# vim /etc/passwd
root@localhost:~# passwd texas
Changing password for user texas.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
root@localhost:~#
```

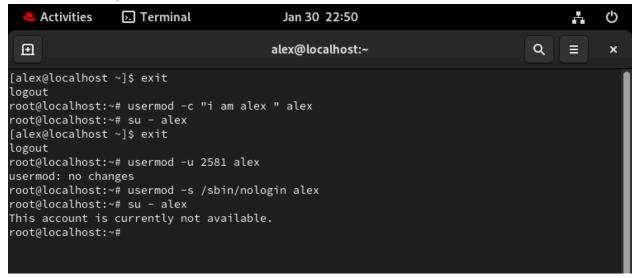
2. Log in as user alex using the su and su - commands, and explain their differences.

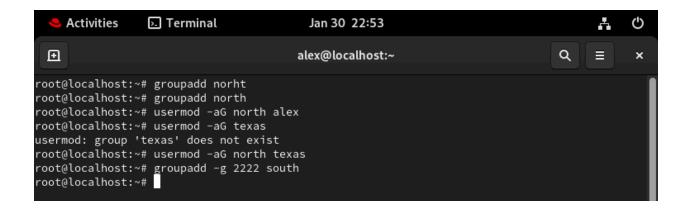


3. Set a password policy for all above users with the following requirements: o The maximum password age should be 30 days, and the minimum password age should be 10 days. o Set the password expiry date for all users to December 31, 2025.

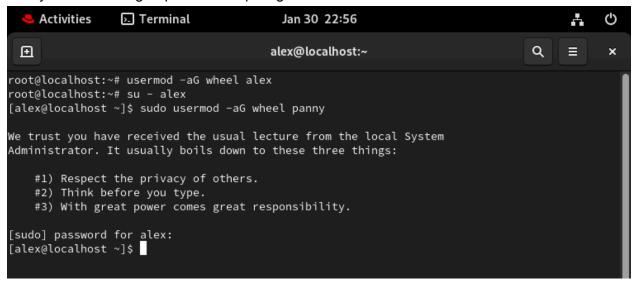


4. Modify the user "alex": ● Add a comment: "I am alex" ● Change the UID to 2581 ● Change the shell to "nologin"

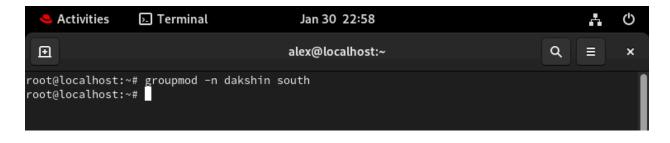




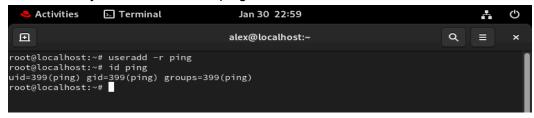
6. Grant user Alex administrative privileges through the wheel group so that Alex can add Panny to the admin group without requiring root access.



7. Change the group name from "south" to "dakshin".



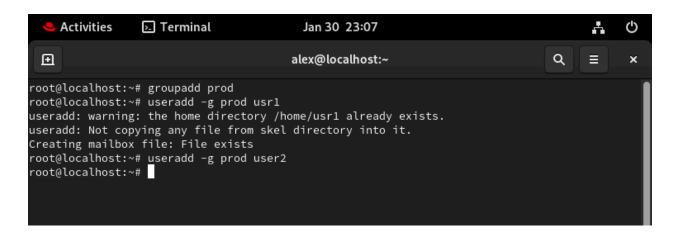
8. Create a system user named "ping" and check its UID.



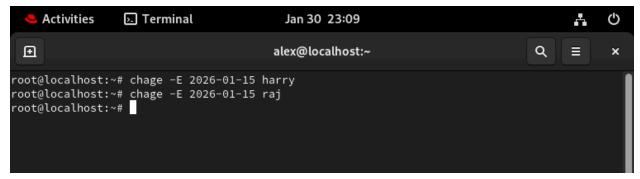
9. Create a group named goa with GID 11000. Set this group as the supplementary group for "brew"



10. Create a group named "prod". Then, create two users, user2 and user1, and set both the user's primary group to prod.



11. Change the password policy for the USER3 and USER4 accounts to expire on 2026-01-15.



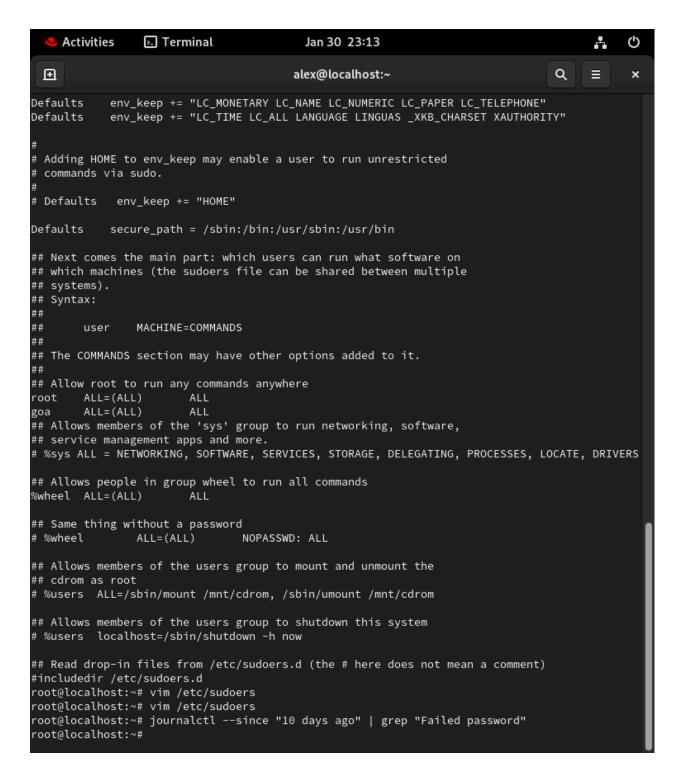
12. Configure administrative rights for all members of the Goa group to execute any command as any user.

```
Activities

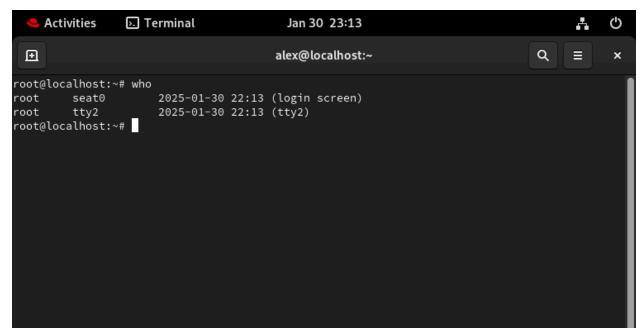
    Terminal
    ■

                                          Jan 30 23:12
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 ⅎ
                                        alex@localhost:~
                                                                                Q
                                                                                      Ħ
                                                                                            ×
Defaults
            env_keep = "COLORS DISPLAY HOSTNAME HISTSIZE KDEDIR LS_COLORS"
            env_keep += "MAIL PS1 PS2 QTDIR USERNAME LANG LC_ADDRESS LC_CTYPE"
Defaults
            env_keep += "LC_COLLATE LC_IDENTIFICATION LC_MEASUREMENT LC_MESSAGES"
Defaults
efaults
            env_keep += "LC_MONETARY LC_NAME LC_NUMERIC LC_PAPER LC_TELEPHONE"
            env_keep += "LC_TIME LC_ALL LANGUAGE LINGUAS _XKB_CHARSET XAUTHORITY"
# Defaults env_keep += "HOME"
           secure_path = /sbin:/bin:/usr/sbin:/usr/bin
## Next comes the main part: which users can run what software on
## which machines (the sudoers file can be shared between multiple
## systems).
## Syntax:
##
##
##
## The COMMANDS section may have other options added to it.
## Allow root to run any commands anywhere
root
        ALL=(ALL)
%goa
## service management apps and more.
## Allows people in group wheel to run all commands
%wheel ALL=(ALL)
## Same thing without a password
# %wheel
                              NOPASSWD: ALL
## Allows members of the users group to mount and unmount the
## cdrom as root
## Allows members of the users group to shutdown this system
## Read drop-in files from /etc/sudoers.d (the # here does not mean a comment)
//etc/sudoers" [readonly] 120L, 4356B
                                                                           104,1
                                                                                         Bot
```

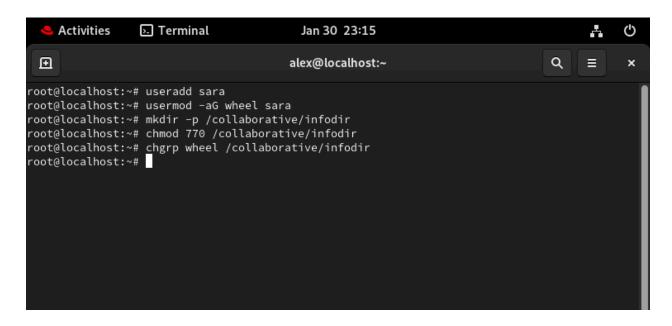
13. How would you check all failed login attempts on the system from the last 10 days? Write the command and display the output.



14. How would you determine how many users are currently logged into the system? Write the command to achieve this.



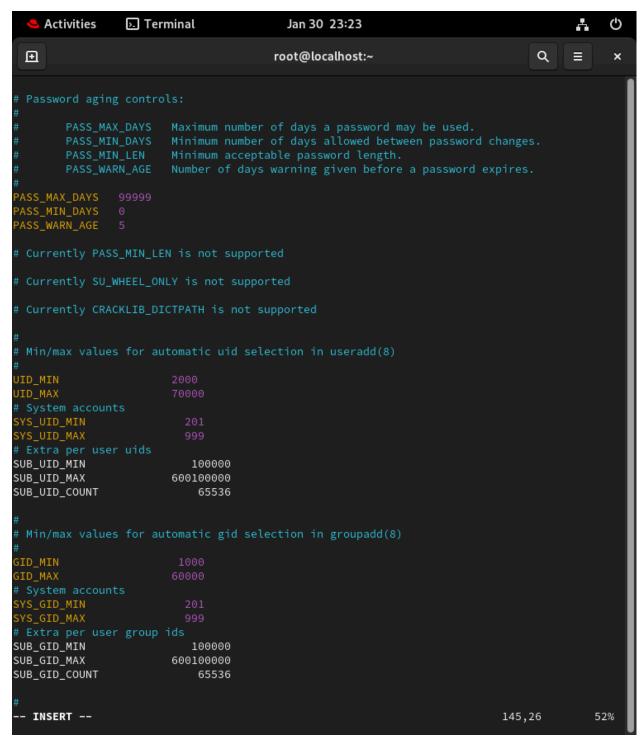
15.Add the user "sara" to the "wheel" group and create a collaborative directory /collaborative/infodir.



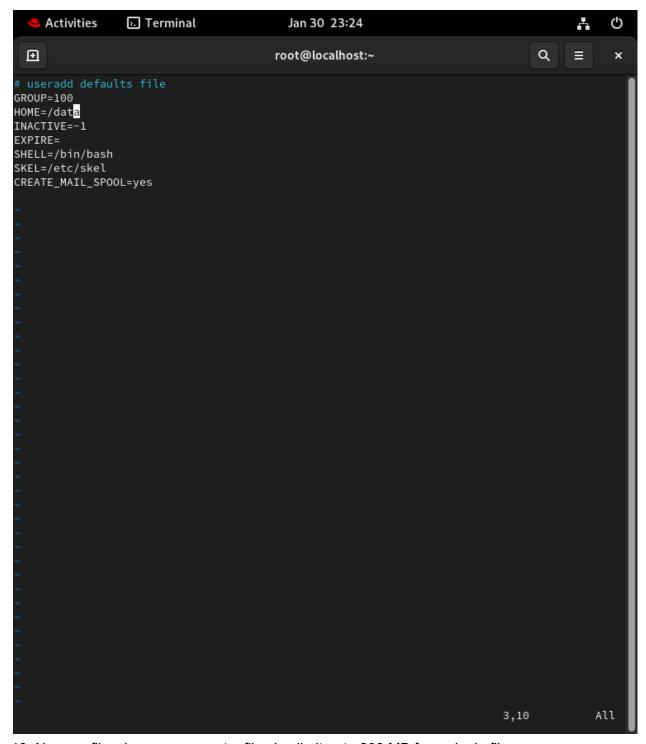
16. Configure login/logout messages: o When you log in with a new user, display a message: "Hello, you are logged in as USER" (where USER is replaced with the logged-in username). o When you log out, display: "You are logged out now".



17. Configure system parameters for newly created users: o Warning period for password expiry: 5 days o Minimum user UID: 2000 o Maximum user UID: 70000



18. Create a directory /data and configure the system so that all newly created users get /data as their home directory by default.



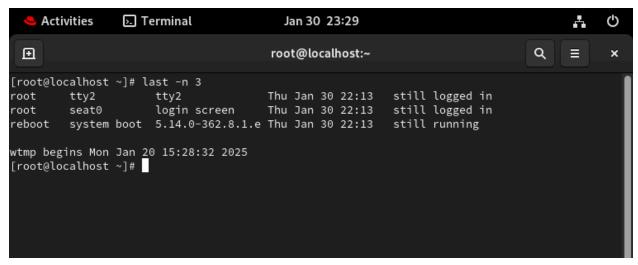
19. Name a file where we can set a file size limit upto 200 MB for a single file.

```
Activities

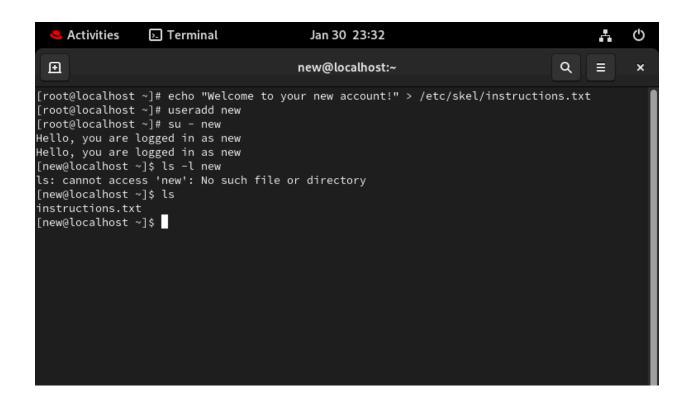
    Terminal
    ■

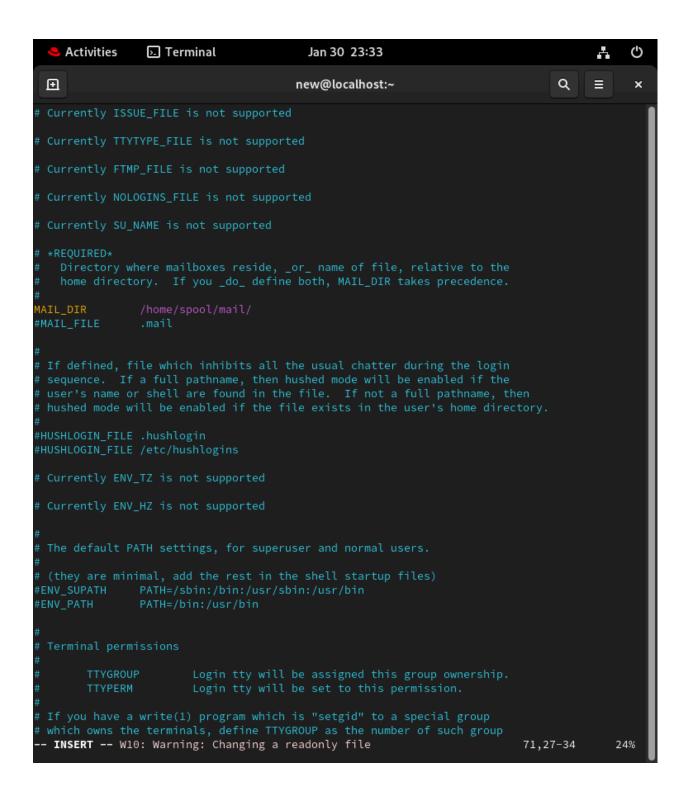
                                             Jan 30 23:28
 oldsymbol{\Theta}
                                                                                       Q
                                           root@localhost:~
#Where:
         - a group name, with @group syntax
         - the wildcard %, can be also used with %group syntax,
         - sigpending - max number of pending signals
         - msgqueue - max memory used by POSIX message queues (bytes)
         - nice - max nice priority allowed to raise to values: [-20, 19]
                                       0
10000
204800
204800
            hard nproc
                soft nproc
hard nproc
hard nproc
# End of file
 - INSERT --
                                                                                 56,48
                                                                                                 Bot
```

20. Check the last three users who logged into your system.



21.As a system administrator, how would you configure the system to ensure that: o Automatically create an instructions.txt file in the home directory of every new user upon account creation. o Ensure that the mail directory for every newly created user is set to /home/spool/mail/ by default?"





22. Delete some users o Named 'alex' and 'brew' with its all data contents including mail data.

