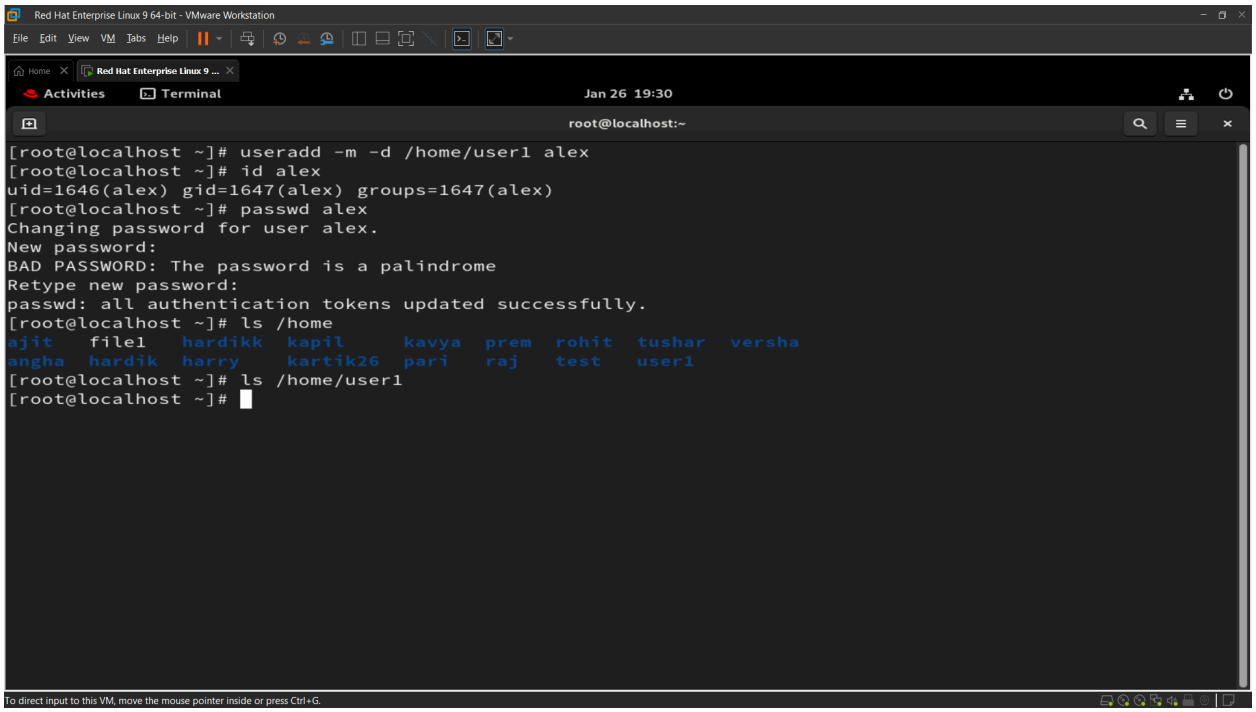
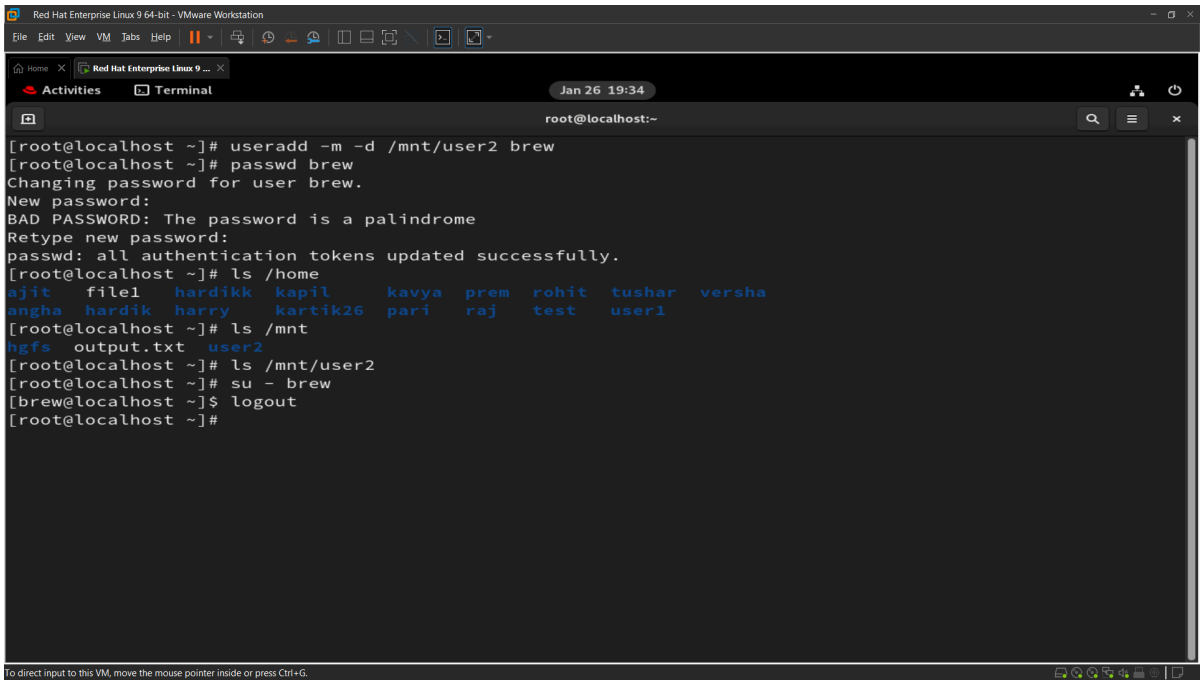
Name : Kartik Jain TR : 2 Assignment No : 2

Q1 : Create some users:

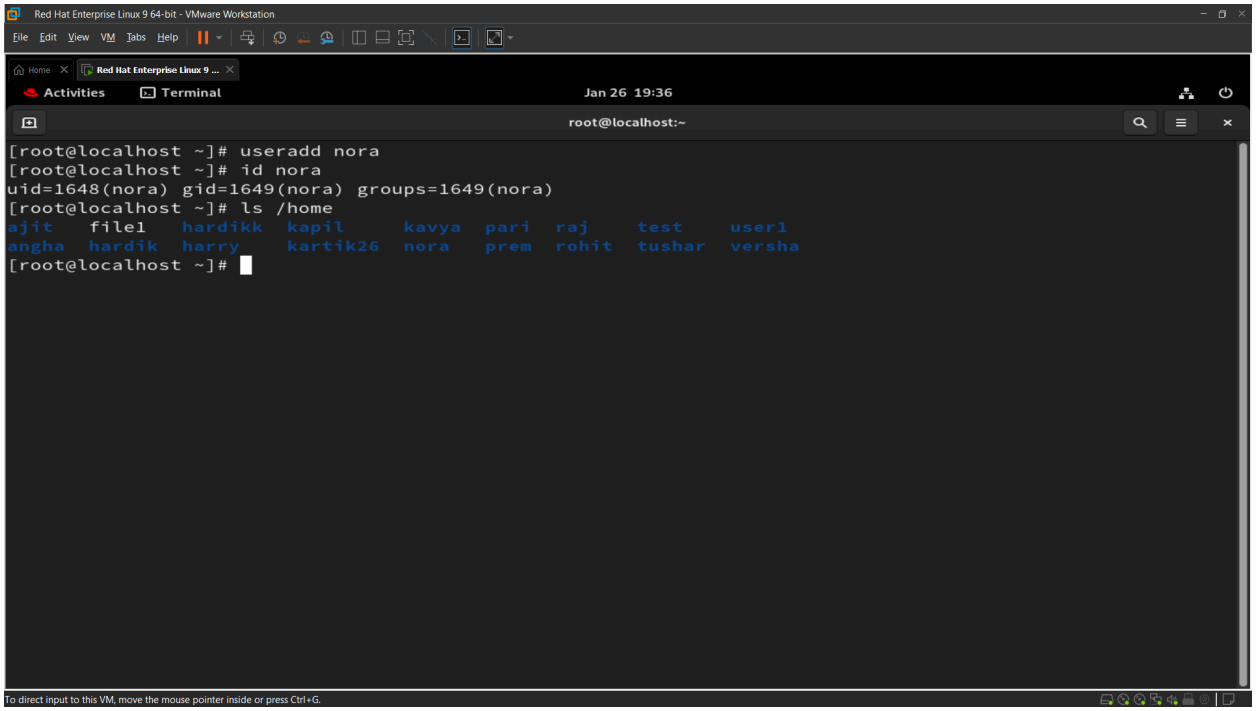
1. Named “alex” with its home directory at /home/user1 and give password “pass1”



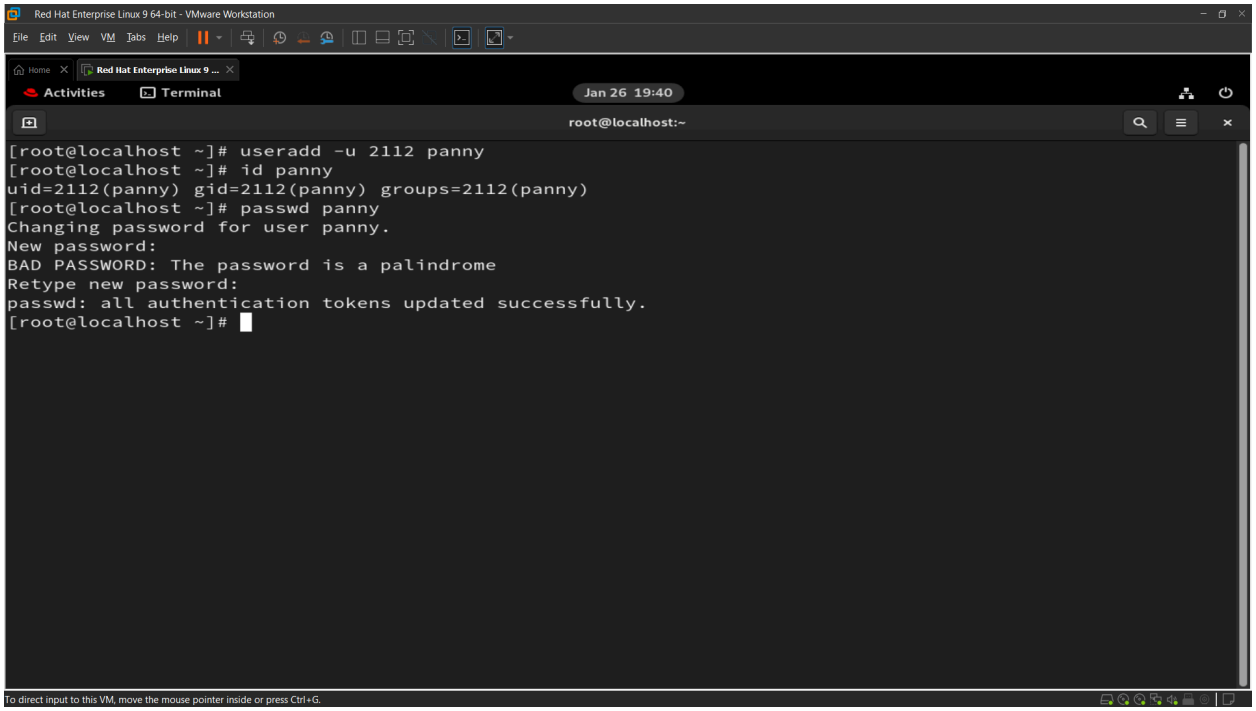
2 Named “brew” with its home directory at /mnt/user2 and give password “pass2”.



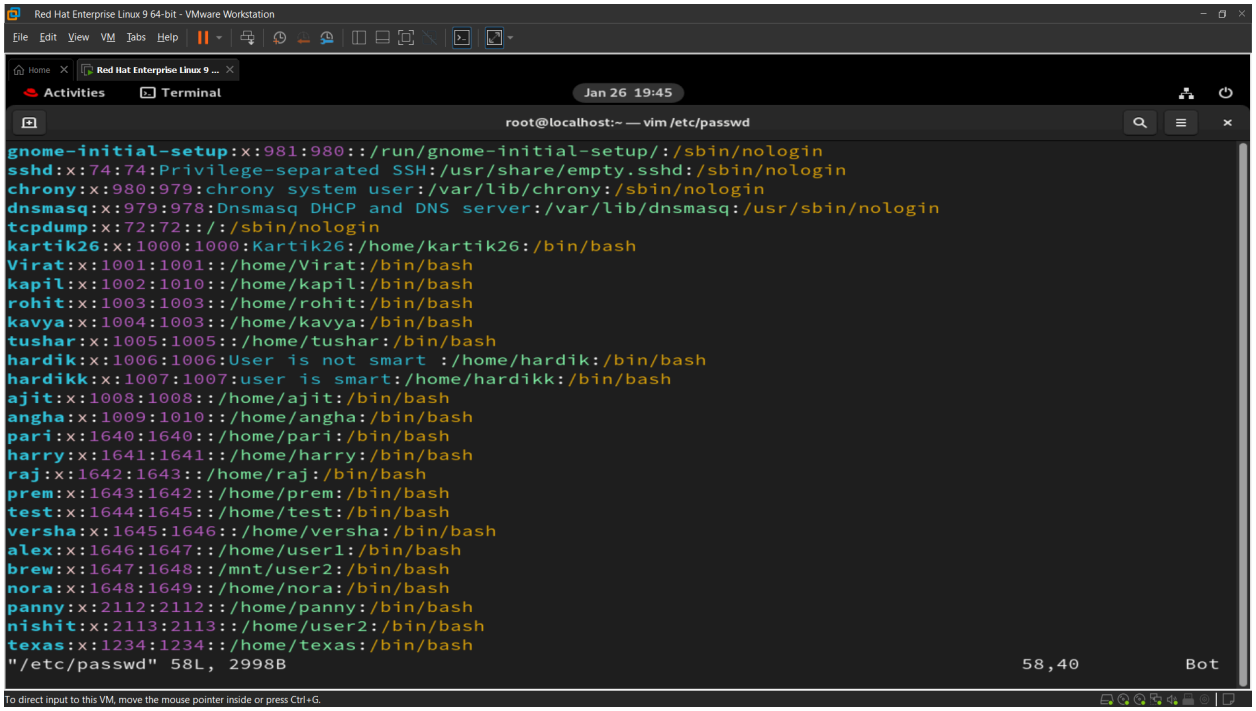
3. Named “nora” without its home directory.



4. Named “panny” with custom UID 2112, and assign password “pass-4”



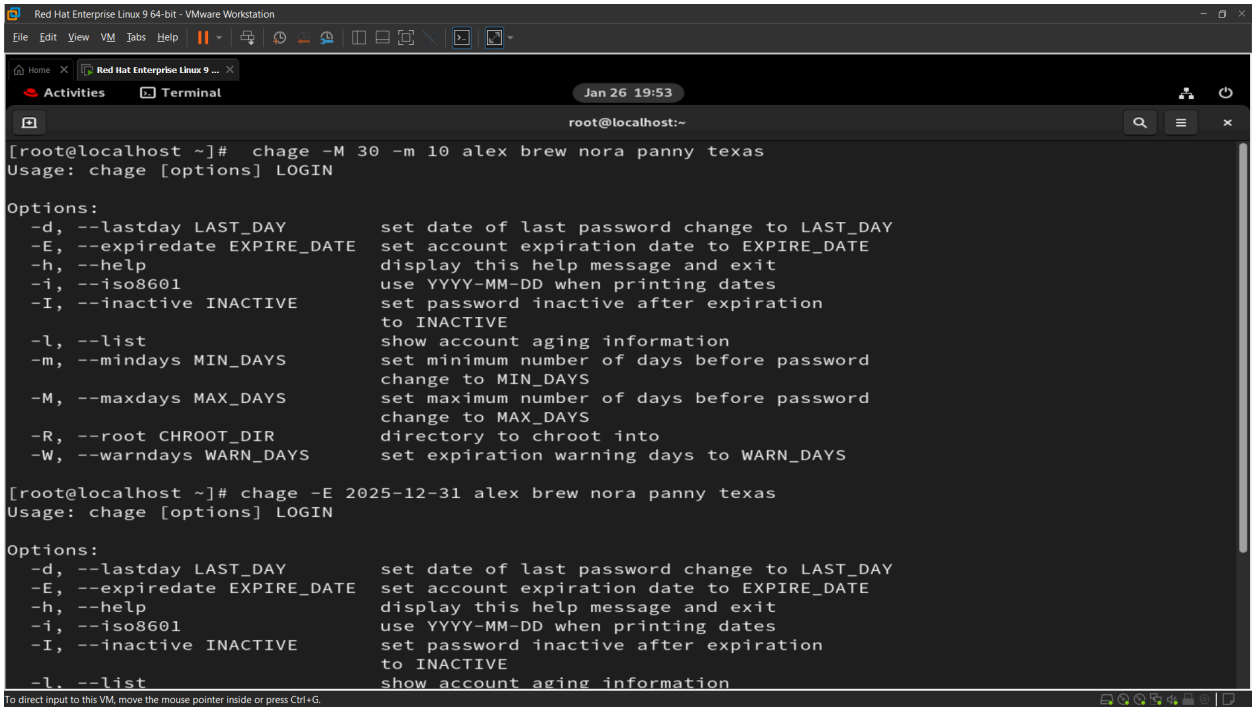
5. Named 'texas' without using the useradd or adduser commands.



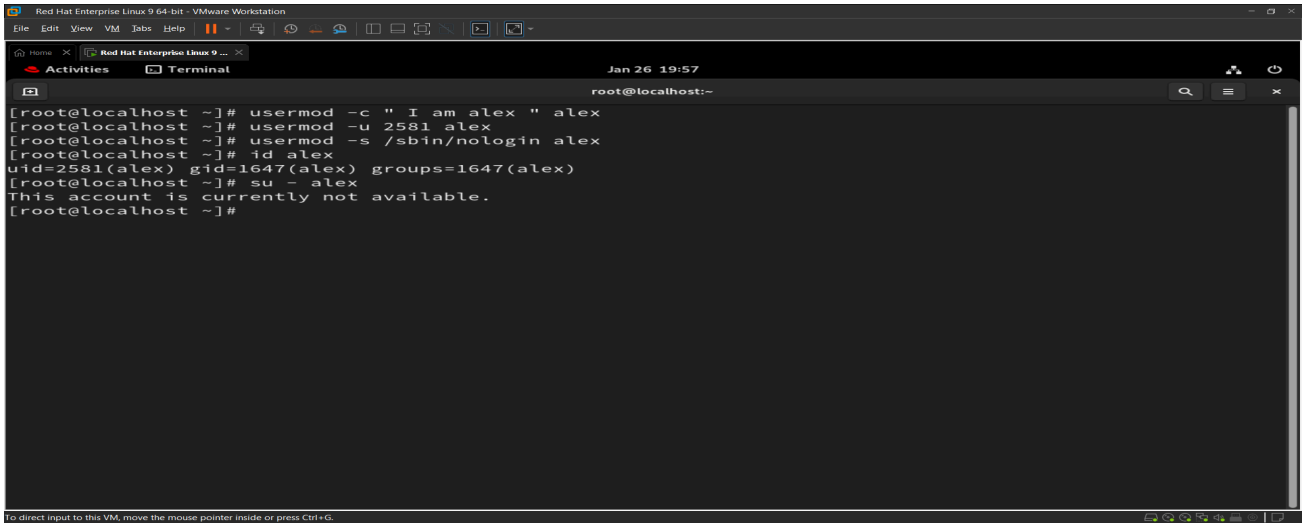
Q2 : 2. Log in as user alex using the su and su - commands, and explain their differences

`su alex`: Switches user but retains the current environment.
`su - alex`: Switches user and starts a new shell session with `alex`'s environment.

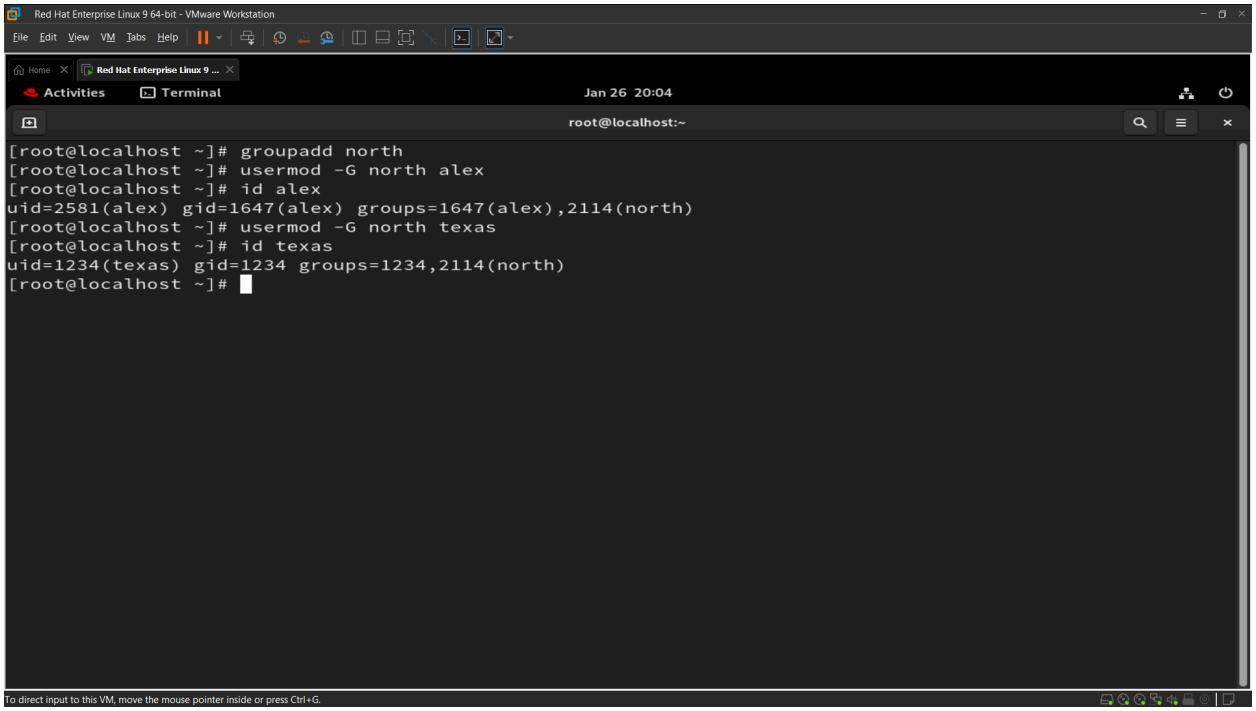
Q3 : Set a password policy for all above users with the following requirements:
o The maximum password age should be 30 days, and the minimum password age should be 10 days.
o Set the password expiry date for all users to December 31, 2025.



Q4 : . Modify the user "alex":
● Add a comment: "I am alex" ● Change the UID to 2581 ● Change the shell to "nologin"



Q5 : Create group with following configuration:
o Named “north” with secondary group member “alex” & “texas”.
o Named “south” with GID “2222”.



Q6 : Grant user Alex administrative privileges through the wheel group so that Alex can add Panny to the admin group without requiring root access.

Image for Q6 :

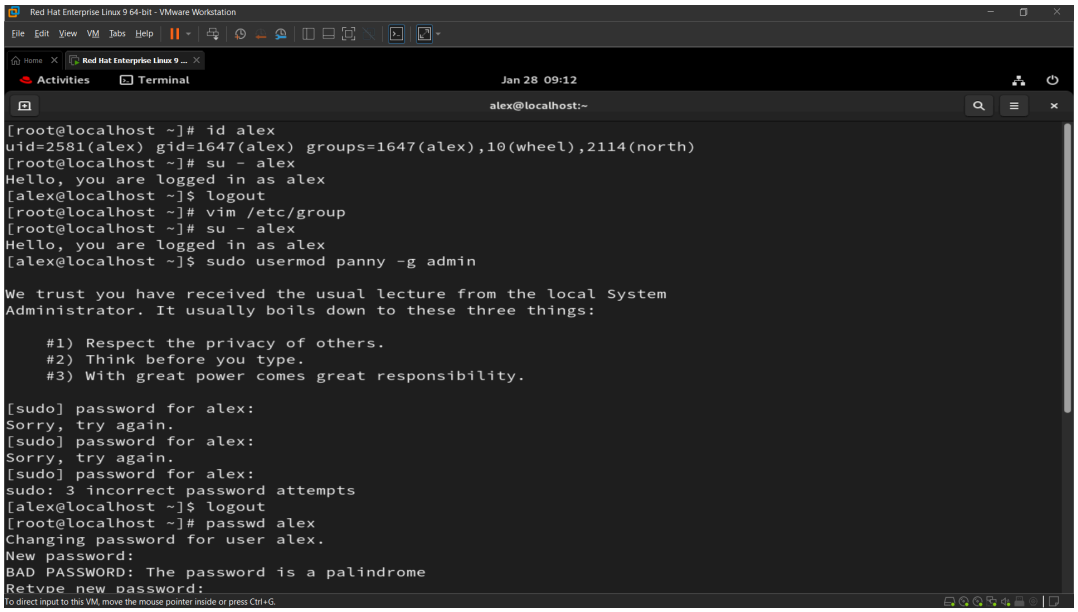
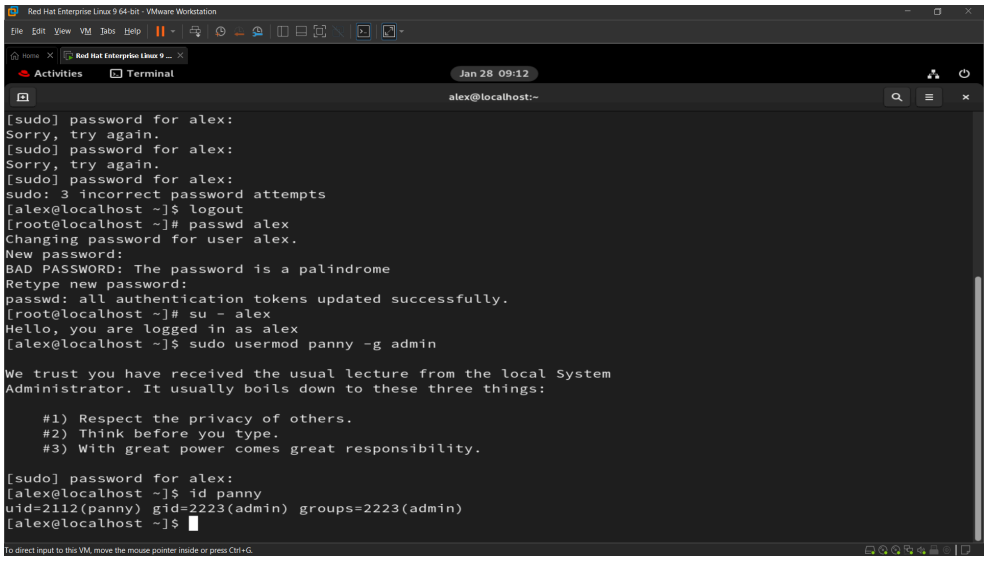
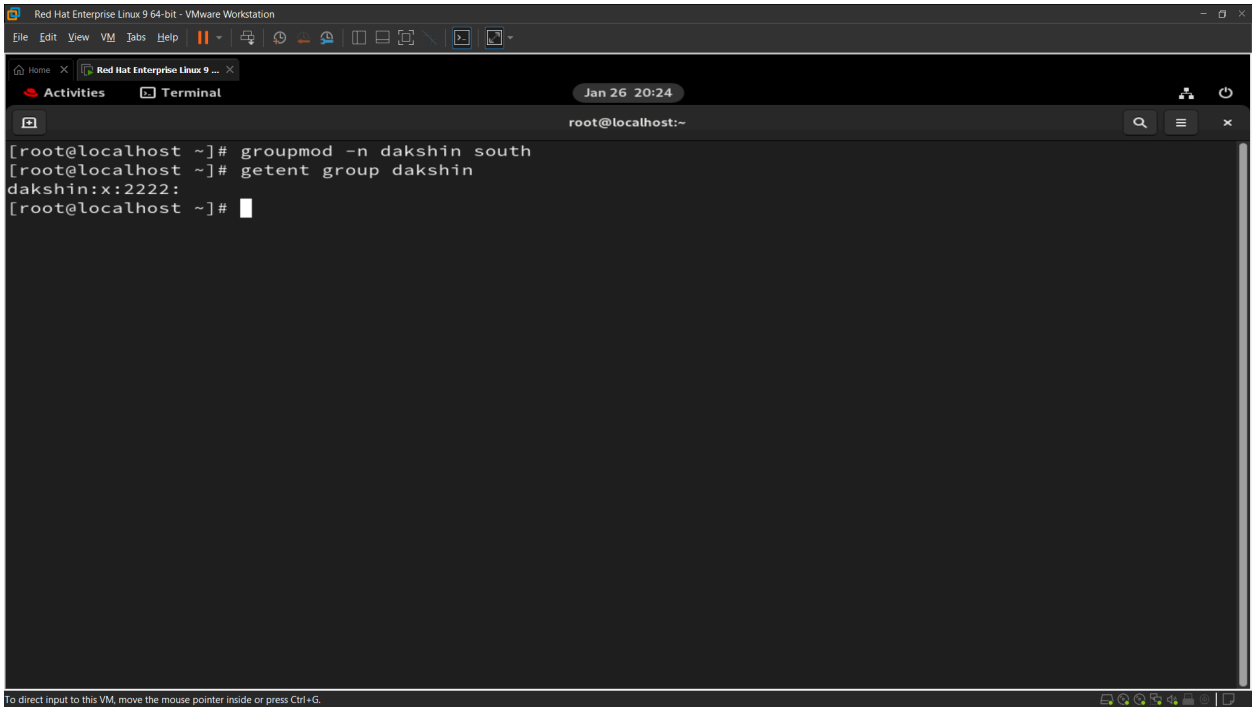


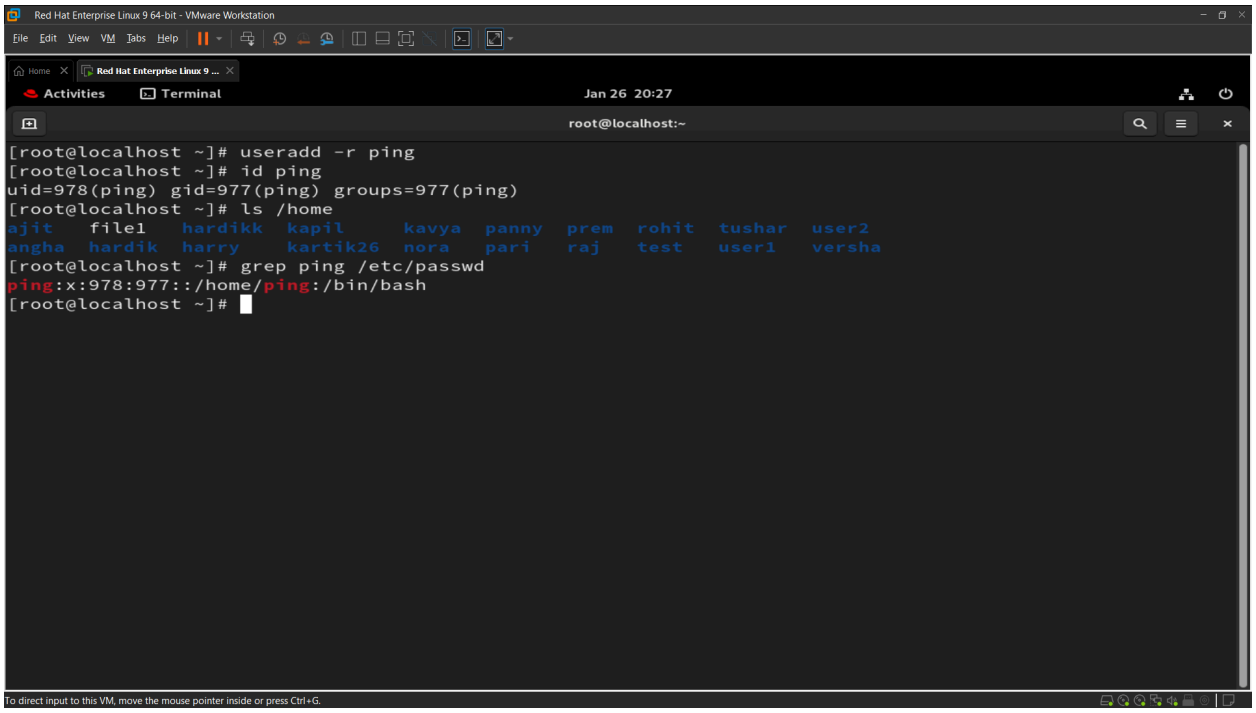
Image for Q6 :



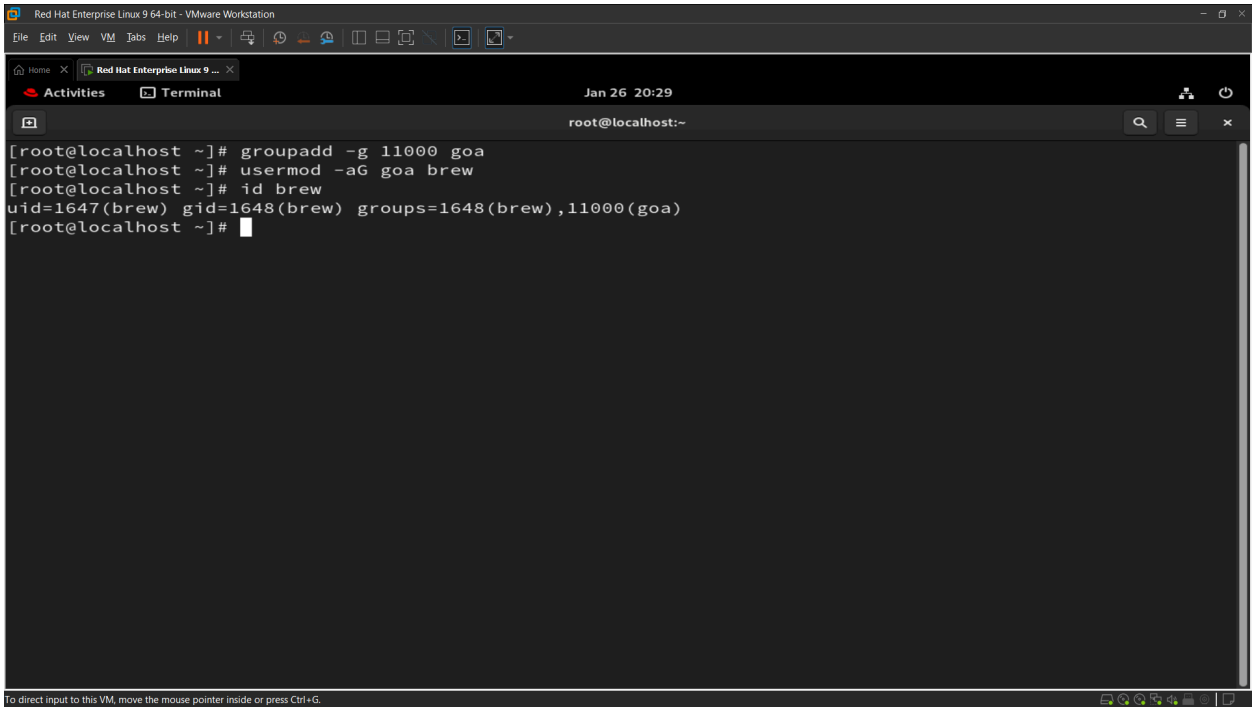
Q7 : 7. Change the group name from “south” to “dakshin”.



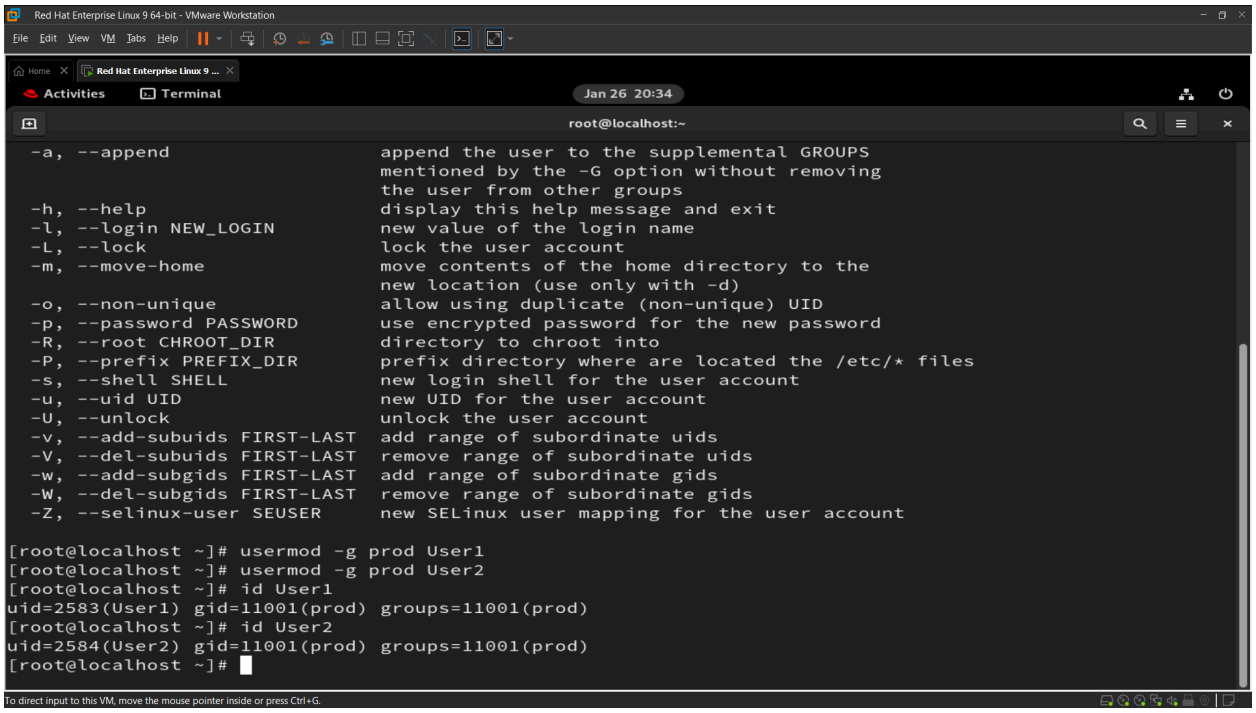
Q8 : Create a system user named “ping” and check its UID



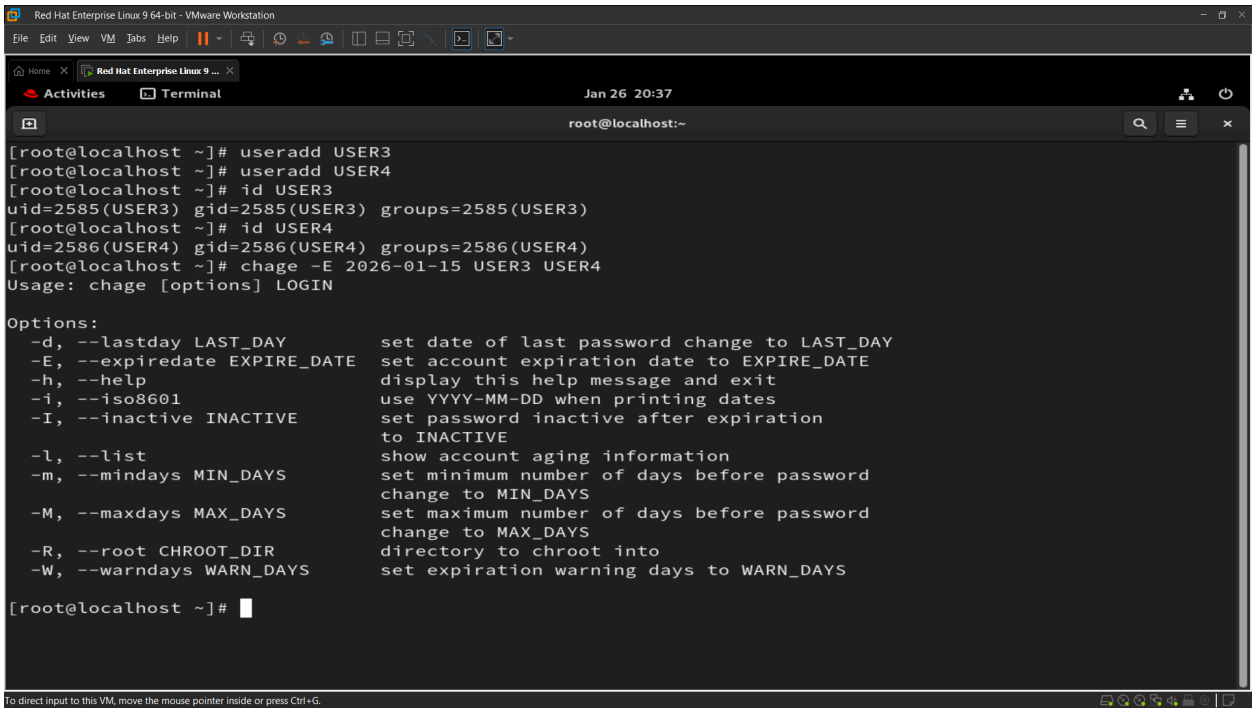
Q9 : Create a group named goa with GID 11000. Set this group as the supplementary group for “brew”



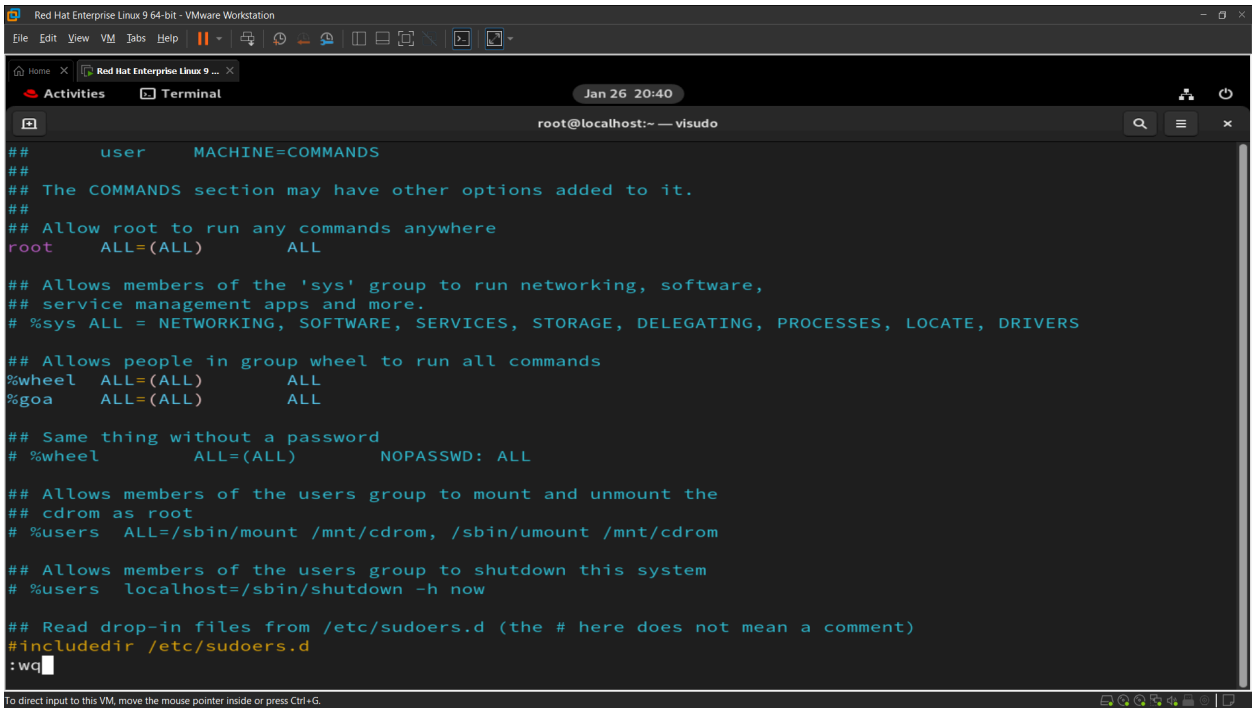
Q10 : Create a group named “prod”. Then, create two users, user2 and user1, and set both the user’s primary group to prod.



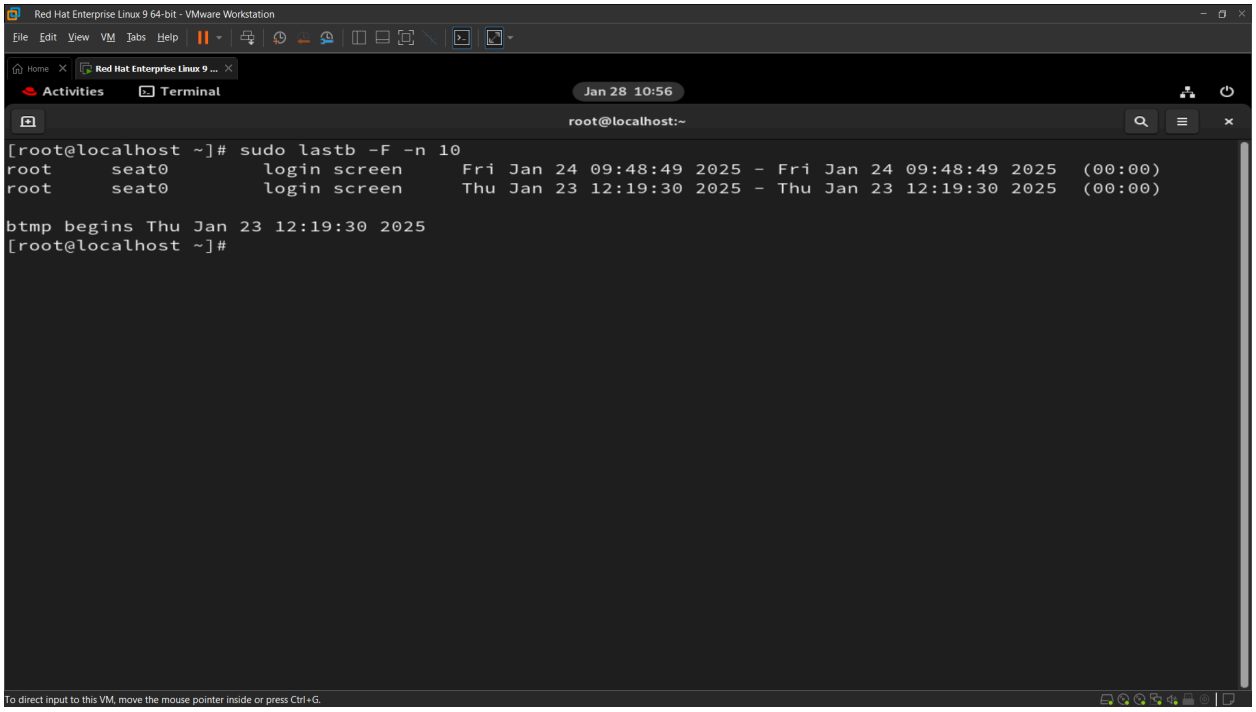
Q11 : Change the password policy for the USER3 and USER4 accounts to expire on 2026-01-15.



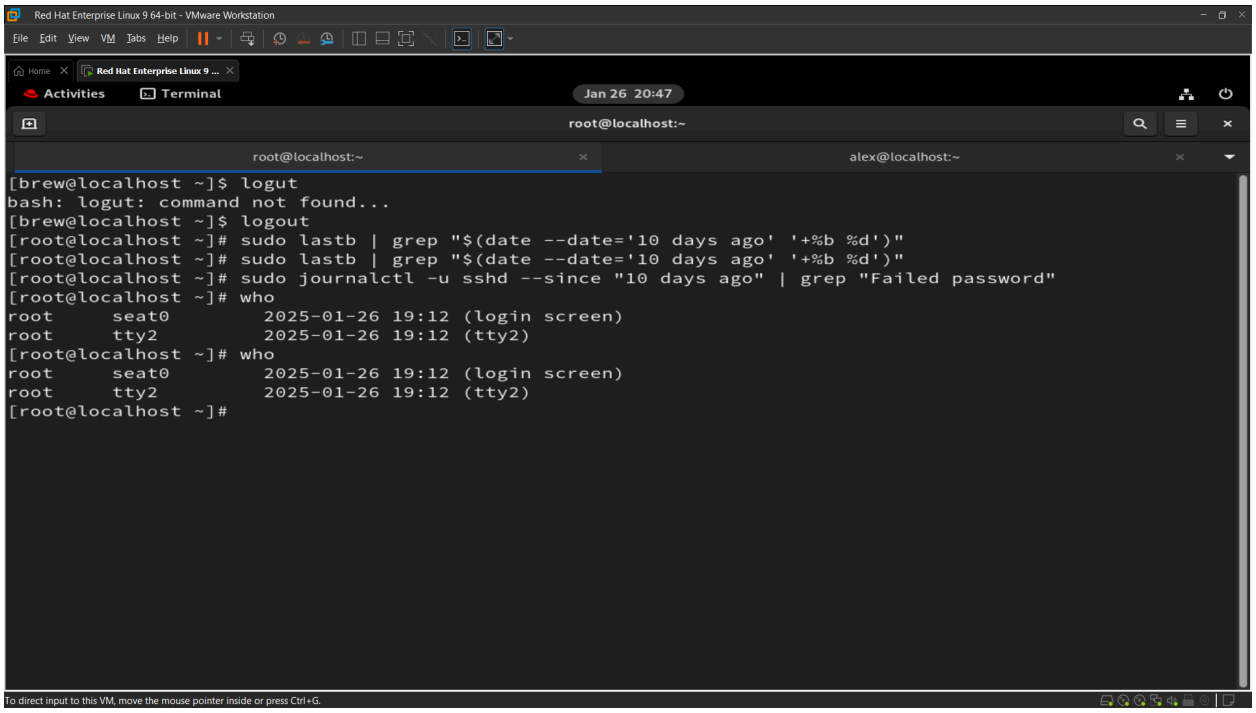
Q12 : Configure administrative rights for all members of the Goa group to execute any command as any user.



Q13 : . How would you check all failed login attempts on the system from the last 10 days? Write the command and display the output.



Q14 : How would you determine how many users are currently logged into the system? Write the command to achieve this.



Q15 : Add the user "sara" to the "wheel" group and create a collaborative directory /collaborative/infodir
IMAGE FOR Q15.

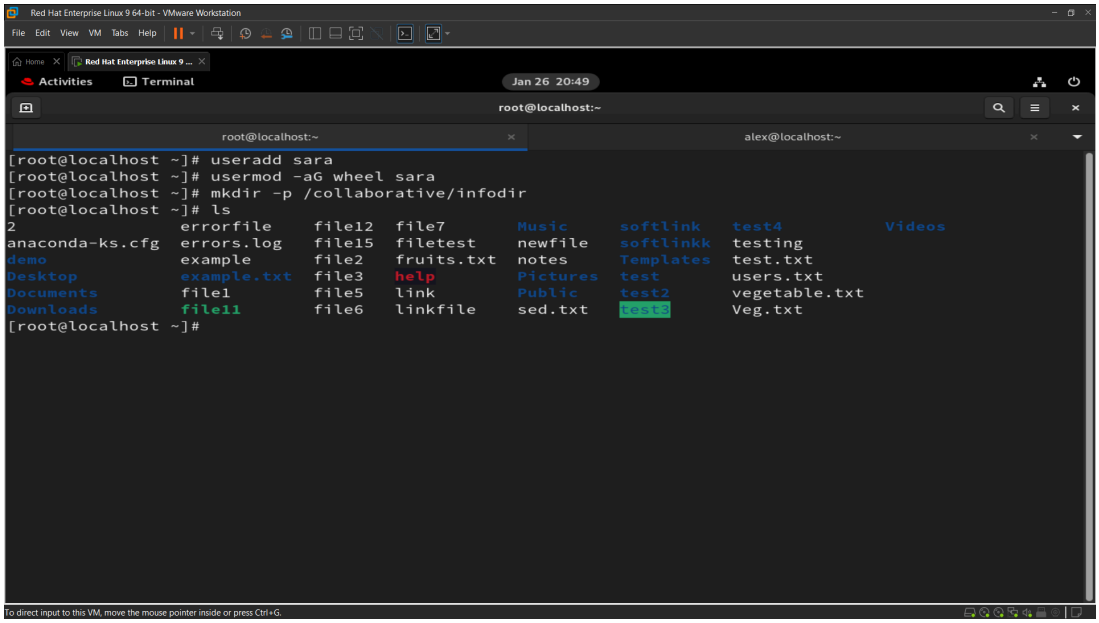
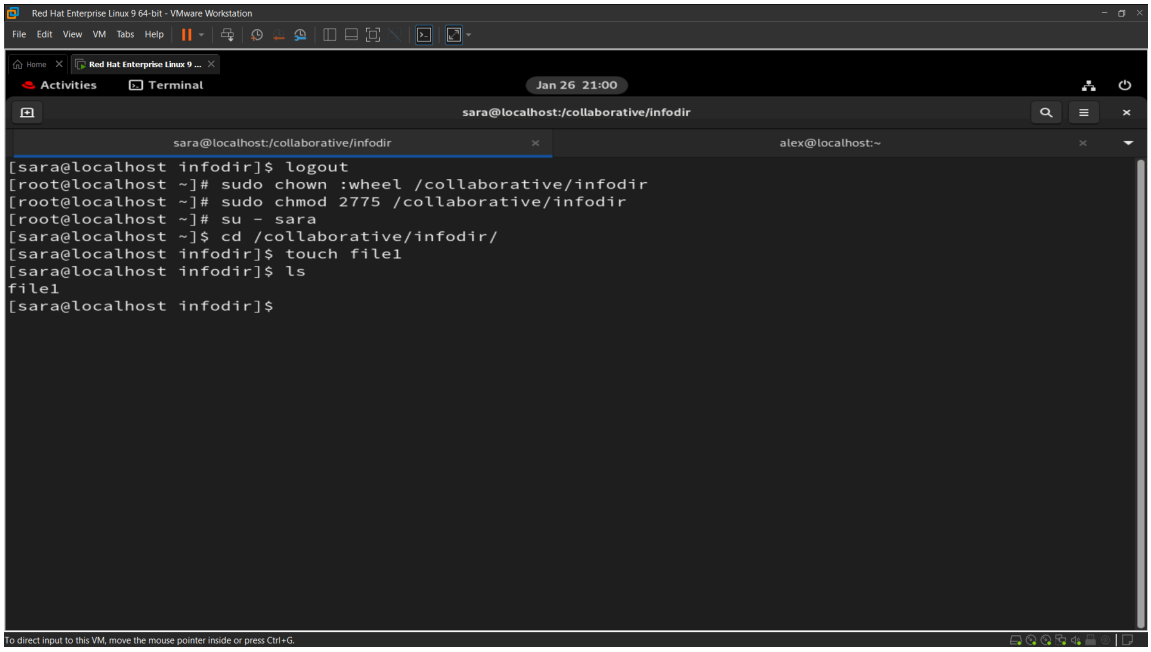


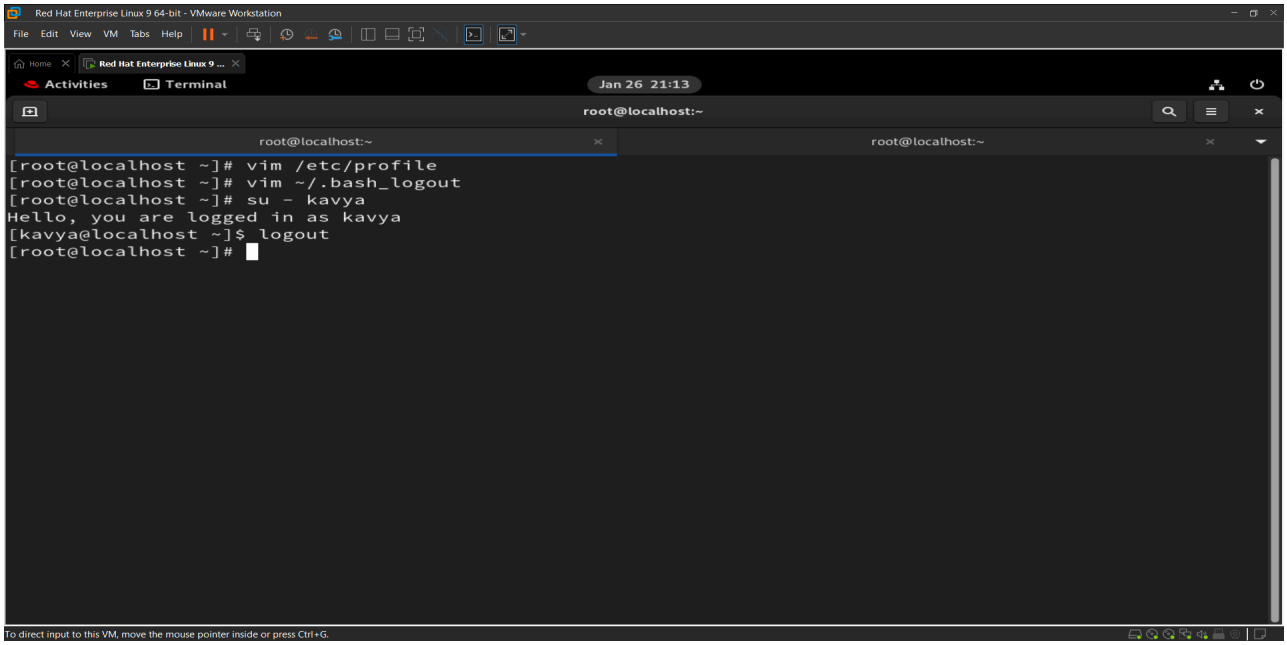
IMAGE FOR Q15



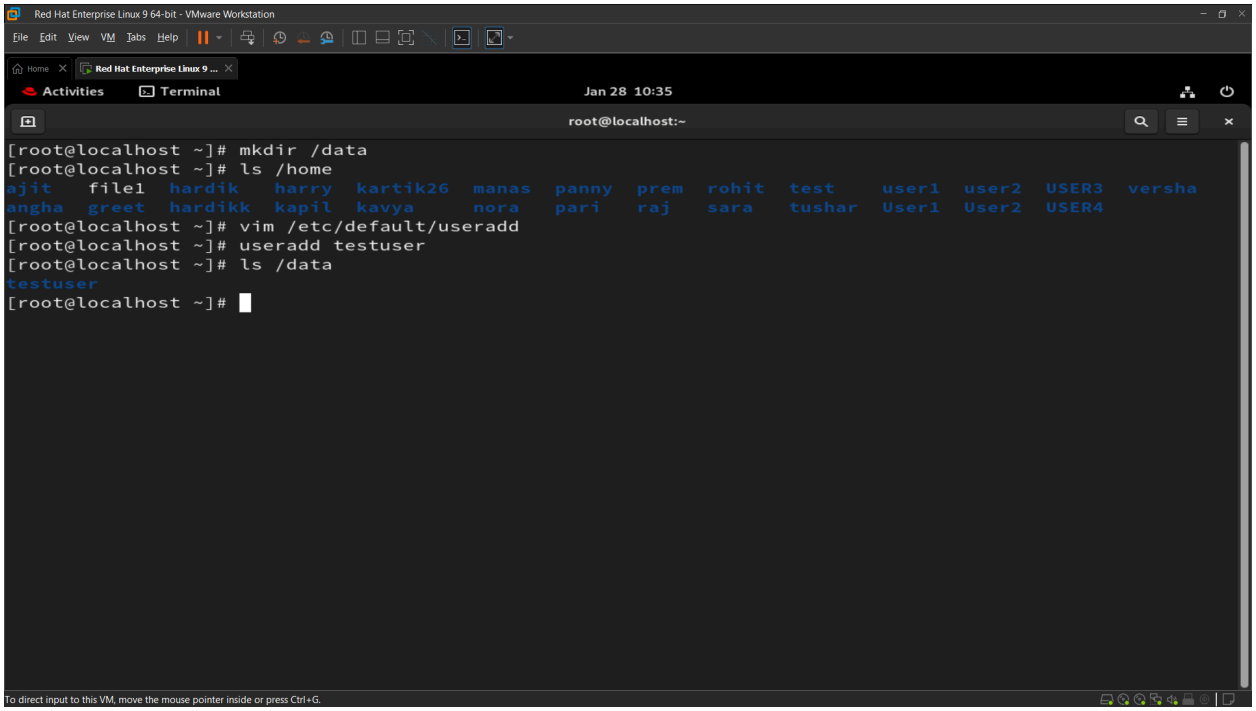
Q16 : 16. Configure login/logout messages:

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"

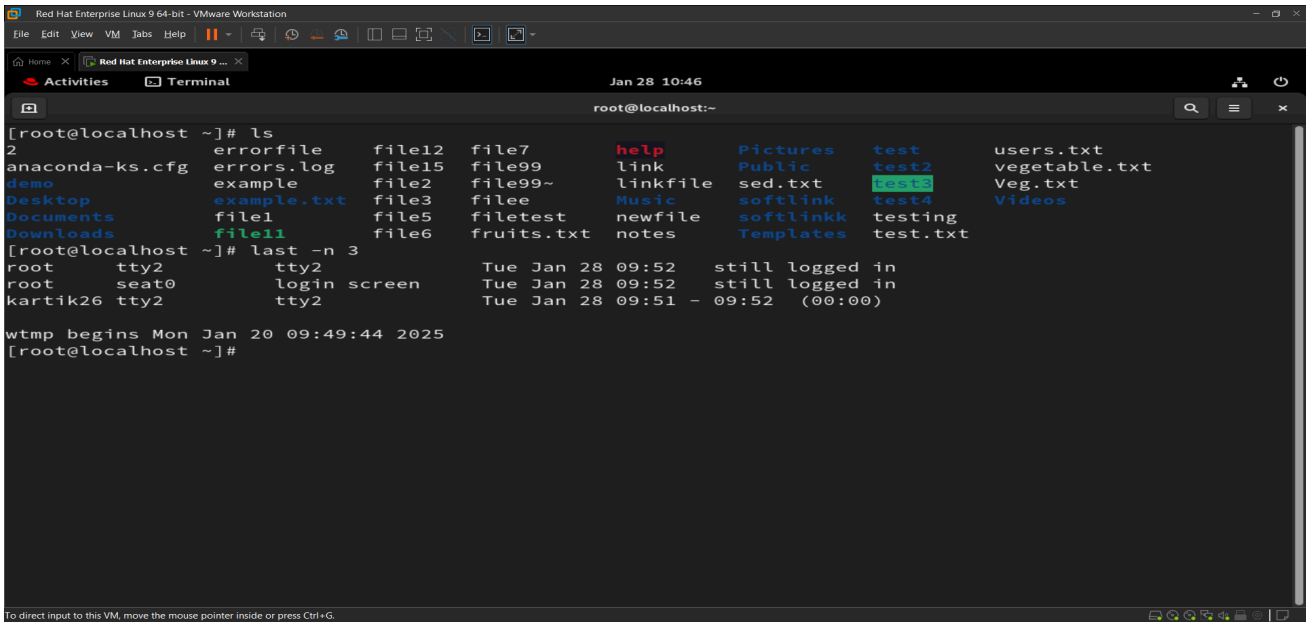


Q18 : Create a directory /data and configure the system so that all newly created users get /data as their home directory by default

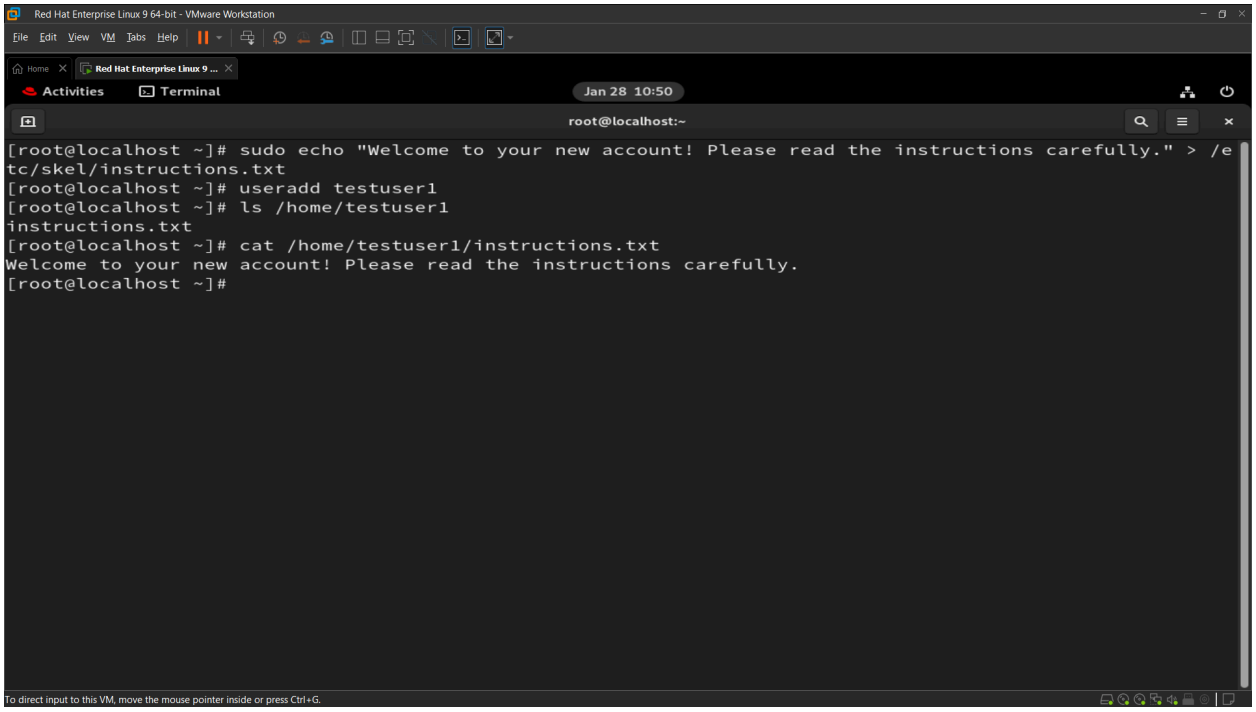


Q19 : Name a file where we can set a file size limit upto 200 MB for a single file.
 # vim /etc/security/limits.conf
 # * soft fsize 204800 * hard fsize 204800

Q20 : Check the last three users who logged into your system.



Q21 : 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?"



Q22 : Delete some users o Named ‘alex’ and ‘brew’ with its all data contents including mail data.