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Final Exam

create multiple users and groups with bash scripting and will make

User and Group Management Script

1. Add User

2. Modify User

3. Delete User

4. Add Group

5. modify Group

6. Delete Group

7. Delete User from Group

8. Add user to group

9. Exit

My bash scripts

```
!/bin/bash

#firstlly I will create function to add a new user
add_user() {
   read -p "please enter username: " username
   useradd $username
   echo "User $username added successfully."
}
```

```
#then I create function to modify an existing user
modify_user() {
   read -p "please enter username to modify: " username
   usermod -l $username $username
   echo "User $username modified successfully."
}

#then I create function to delete an existing user
delete_user() {
   read -p "please enter username to delete: " username
   userdel -r $username
   echo "User $username deleted successfully."
}

# then create function to add a new group
add_group() {
   read -p "please enter group name: " groupname
   groupadd $groupname
   echo "Group $groupname added successfully."
}

# then create function to delete an existing group
delete_group() {
```

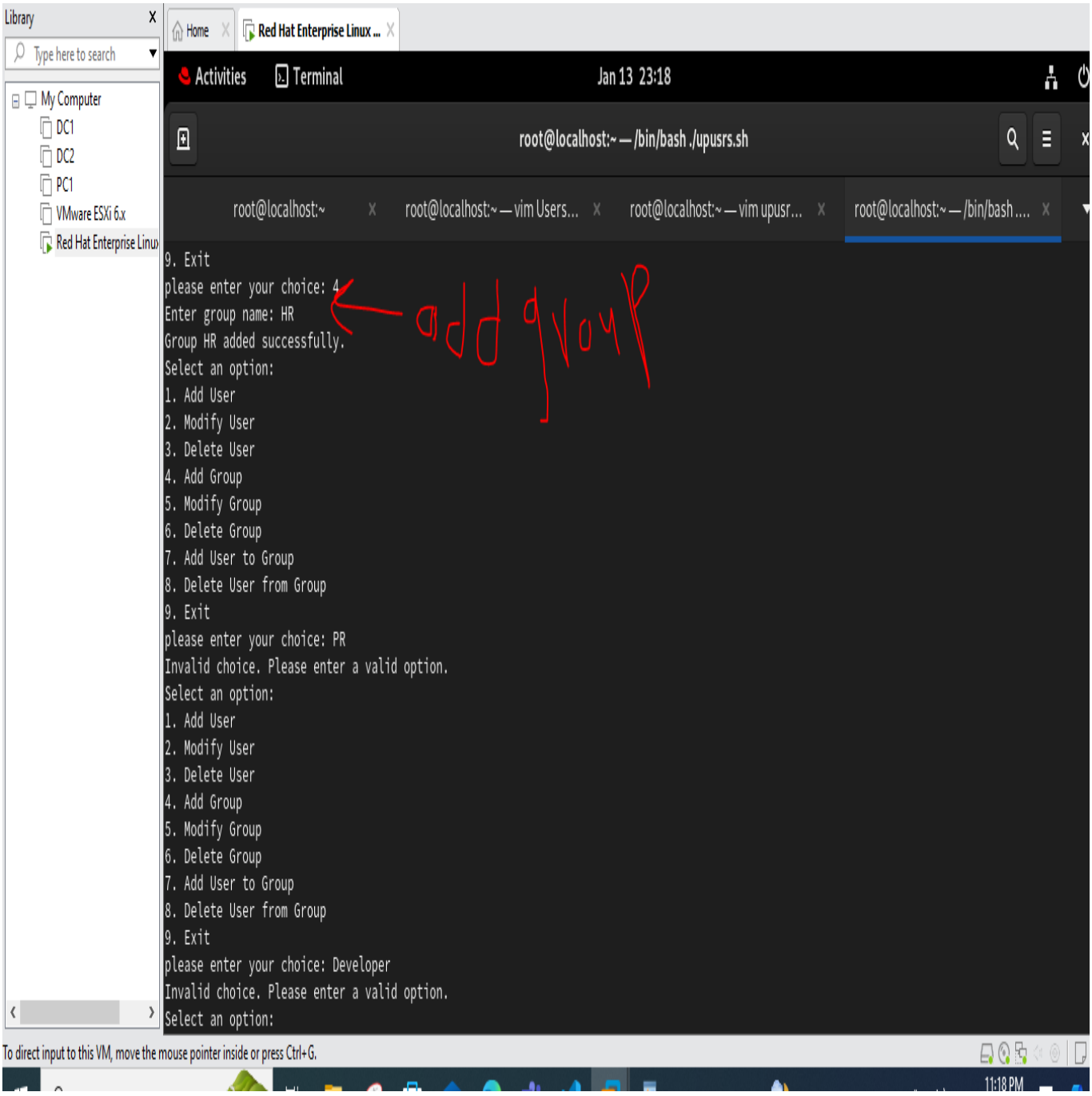
```
    read -p "please enter group name to delete: " groupname
    groupdel $groupname
    echo "Group $groupname deleted successfully."
}

#then create function to add a user to a group
add_user_to_group() {
    read -p "please enter username: " username
    read -p "please enter group name: " groupname
    usermod -aG $groupname $username
    echo "User $username added to group $groupname successfully."
}

# then create function to delete a user from a group
delete_user_from_group() {
    read -p "please enter username: " username
    read -p "please enter group name: " groupname
    deluser $username $groupname
    echo "User $username removed from group $groupname
successfully."
}

# Main minue to selct what i need to do
```

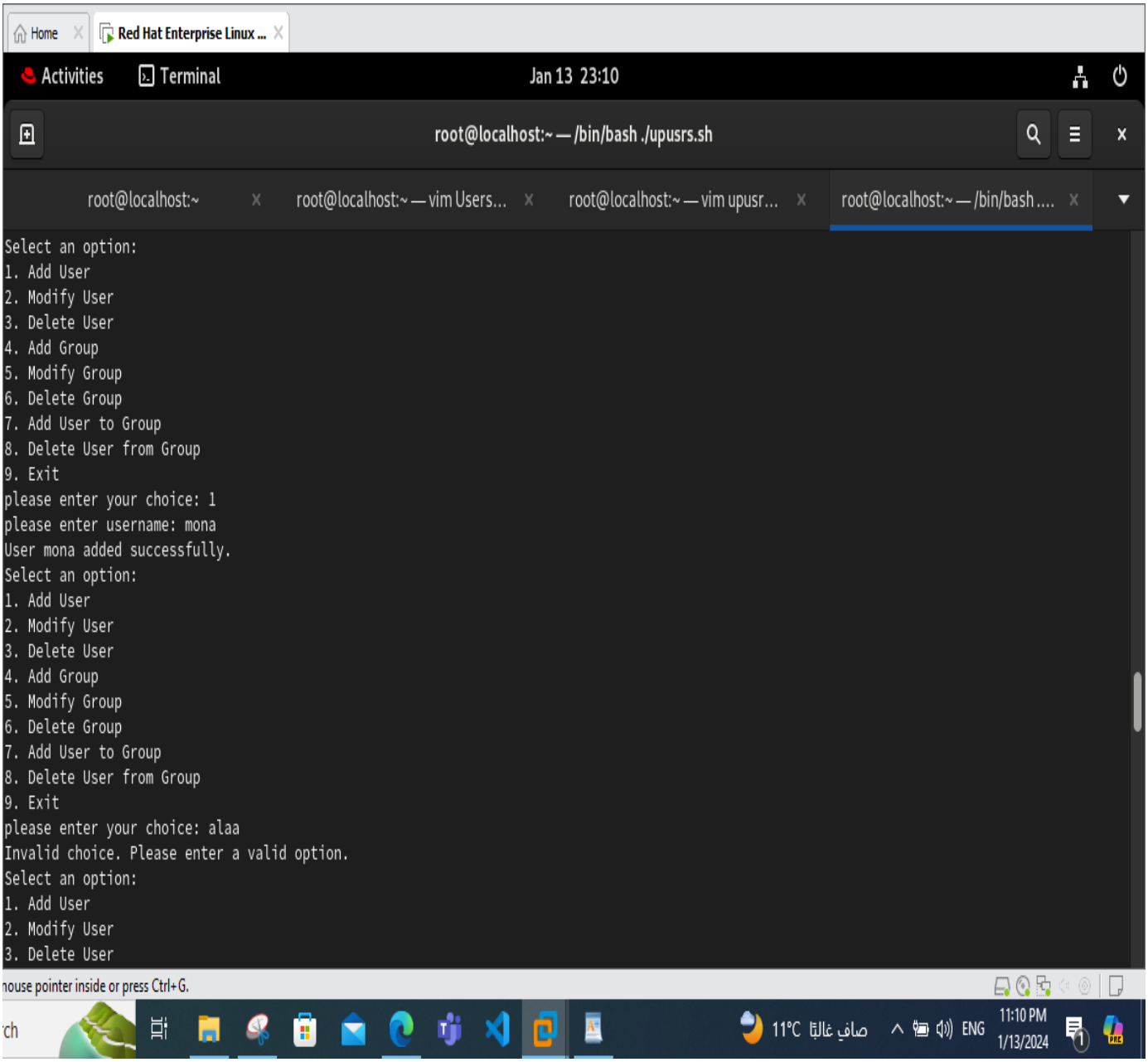
```
# Main minue to selct what i need to do
while true; do
    echo "Select an option:"
    echo "1. Add User"
    echo "2. Modify User"
    echo "3. Delete User"
    echo "4. Add Group"
    echo "5. Modify Group"
    echo "6. Delete Group"
    echo "7. Add User to Group"
    echo "8. Delete User from Group"
    echo "9. Exit"

    read -p "please enter your choice: " choice
case $choice in
        1)
            add_user
            ;;
        2)
            modify_user
            ;;
        3)
```

```
            delete_user
            ;;
        4)
            add_group
            ;;
        5)
            modify_group
            ;;
        6)
            delete_group
            ;;
        7)
            add_user_to_group
            ;;
        8)
            delete_user_from_group
            ;;
        9)
            echo "Exiting script."
            exit 0
    ;;
        *)
```

```
        echo "Invalid choice. Please enter a valid option."
        ;;
    esac
done
```

Photo for testing




Home
Red Hat Enterprise Linux ...
Activities
Terminal
Jan 13 23:10
root@localhost:~ — /bin/bash ./upusrs.sh
root@localhost:~
root@localhost:~ — vim Users...
root@localhost:~ — vim upusr...
root@localhost:~ — /bin/bash ....
Select an option:
1. Add User
2. Modify User
3. Delete User
4. Add Group
5. Modify Group
6. Delete Group
7. Add User to Group
8. Delete User from Group
9. Exit
please enter your choice: 1
please enter username: mona
User mona added successfully.
Select an option:
1. Add User
2. Modify User
3. Delete User
4. Add Group
5. Modify Group
6. Delete Group
7. Add User to Group
8. Delete User from Group
9. Exit
please enter your choice: alaa
Invalid choice. Please enter a valid option.
Select an option:
1. Add User
2. Modify User
3. Delete User
house pointer inside or press Ctrl+G.
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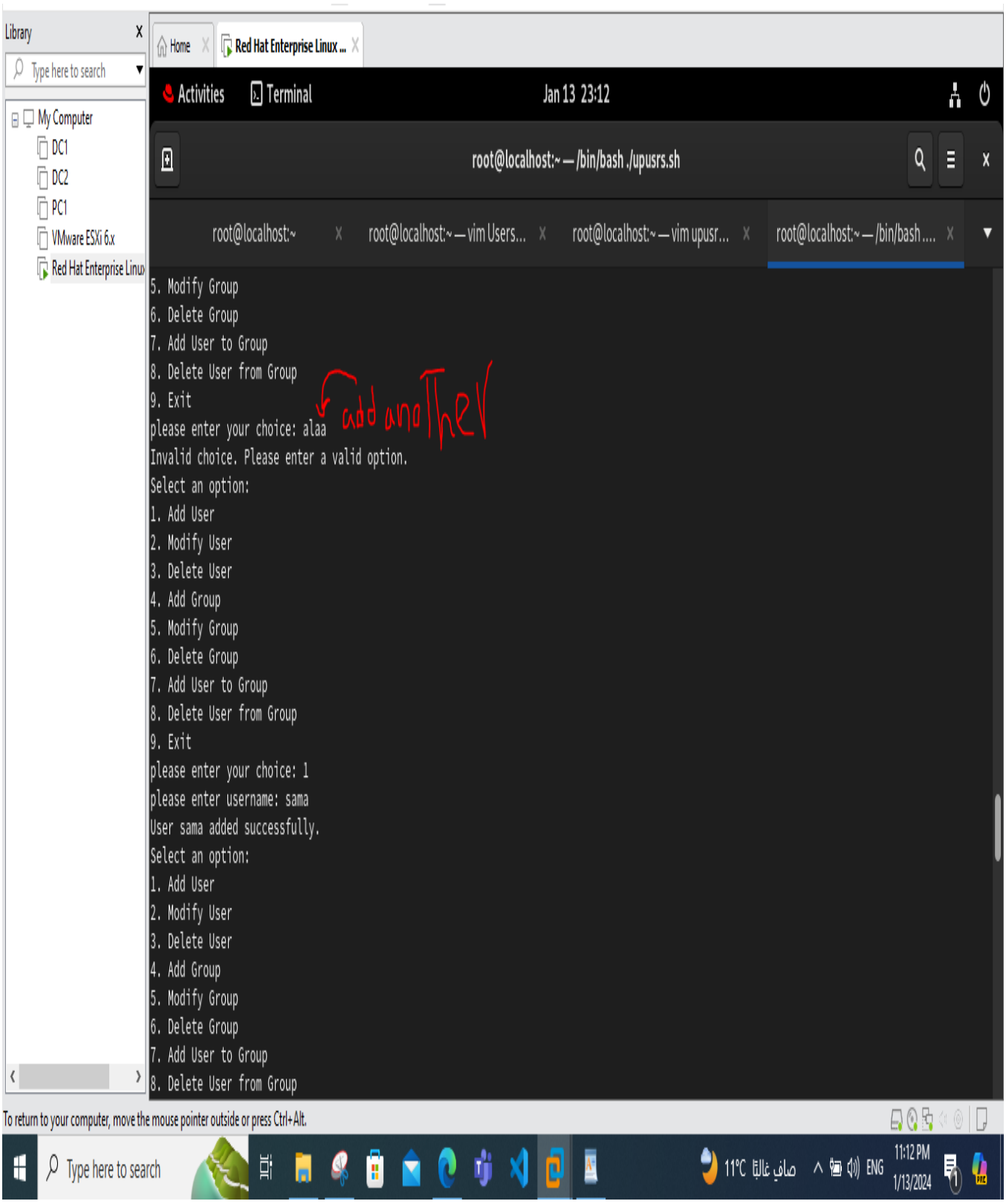
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Red Hat Enterprise Linux
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Red Hat Enterprise Linux ...
Activities
Terminal
Jan 13 23:12
root@localhost:~ — /bin/bash ./upusrs.sh
root@localhost:~
root@localhost:~ — vim Users...
root@localhost:~ — vim upusr...
root@localhost:~ — /bin/bash ....
5. Modify Group
6. Delete Group
7. Add User to Group
8. Delete User from Group
9. Exit
please enter your choice: alaa
add another
Invalid choice. Please enter a valid option.
Select an option:
1. Add User
2. Modify User
3. Delete User
4. Add Group
5. Modify Group
6. Delete Group
7. Add User to Group
8. Delete User from Group
9. Exit
please enter your choice: 1
please enter username: sama
User sama added successfully.
Select an option:
1. Add User
2. Modify User
3. Delete User
4. Add Group
5. Modify Group
6. Delete Group
7. Add User to Group
8. Delete User from Group
To return to your computer, move the mouse pointer outside or press Ctrl+Alt.
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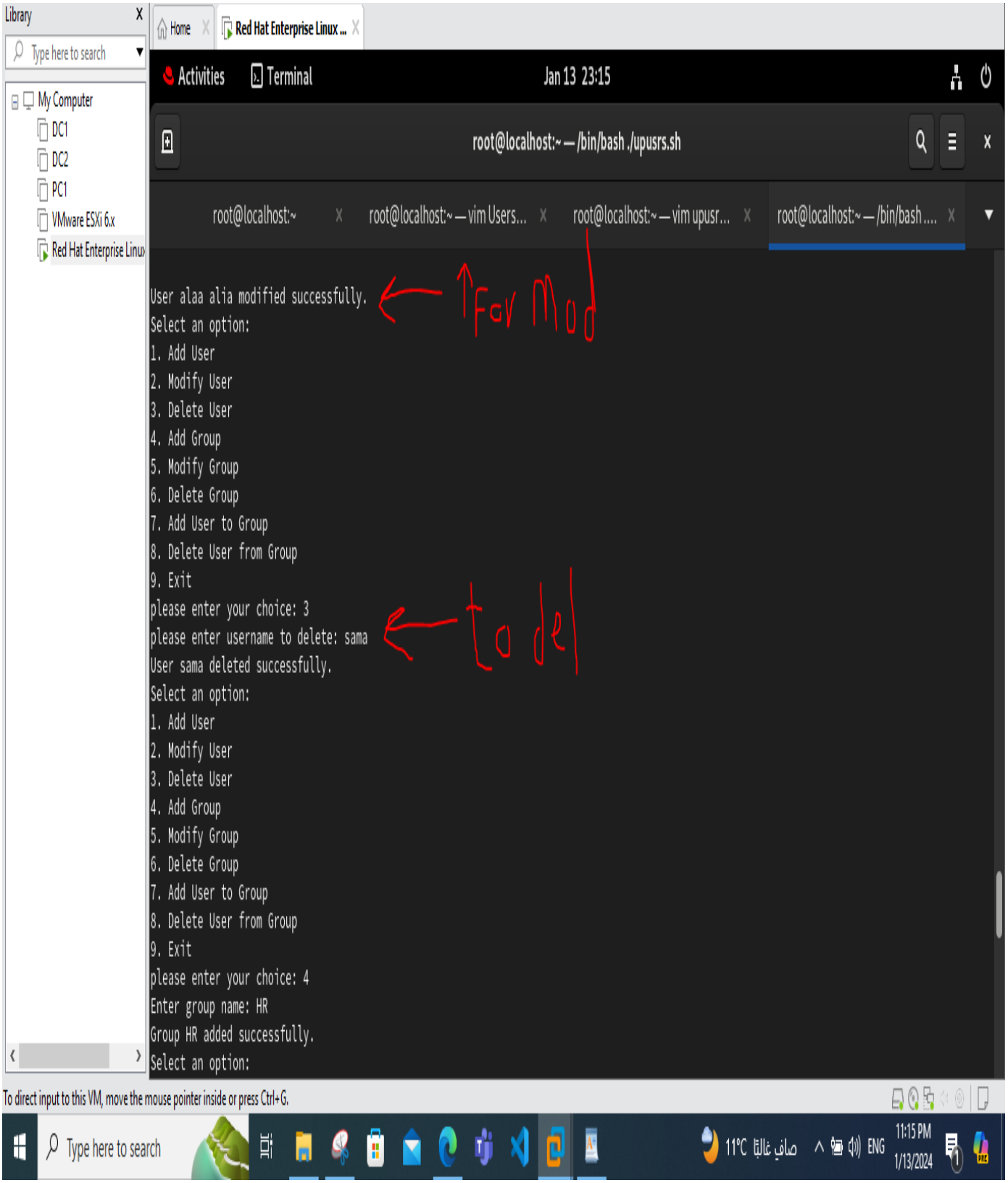
Library
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My Computer
DC1
DC2
PC1
VMware ESXi 6.x
Red Hat Enterprise Linux
Home
Red Hat Enterprise Linux ...
Activities
Terminal
Jan 13 23:15
root@localhost:~ — /bin/bash ./upusrs.sh
root@localhost:~
root@localhost:~ — vim Users...
root@localhost:~ — vim upusr...
root@localhost:~ — /bin/bash ....
User alaa alia modified successfully.
For Mod
Select an option:
1. Add User
2. Modify User
3. Delete User
4. Add Group
5. Modify Group
6. Delete Group
7. Add User to Group
8. Delete User from Group
9. Exit
please enter your choice: 3
please enter username to delete: sama
to del
User sama deleted successfully.
Select an option:
1. Add User
2. Modify User
3. Delete User
4. Add Group
5. Modify Group
6. Delete Group
7. Add User to Group
8. Delete User from Group
9. Exit
please enter your choice: 4
Enter group name: HR
Group HR added successfully.
Select an option:
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
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ENG
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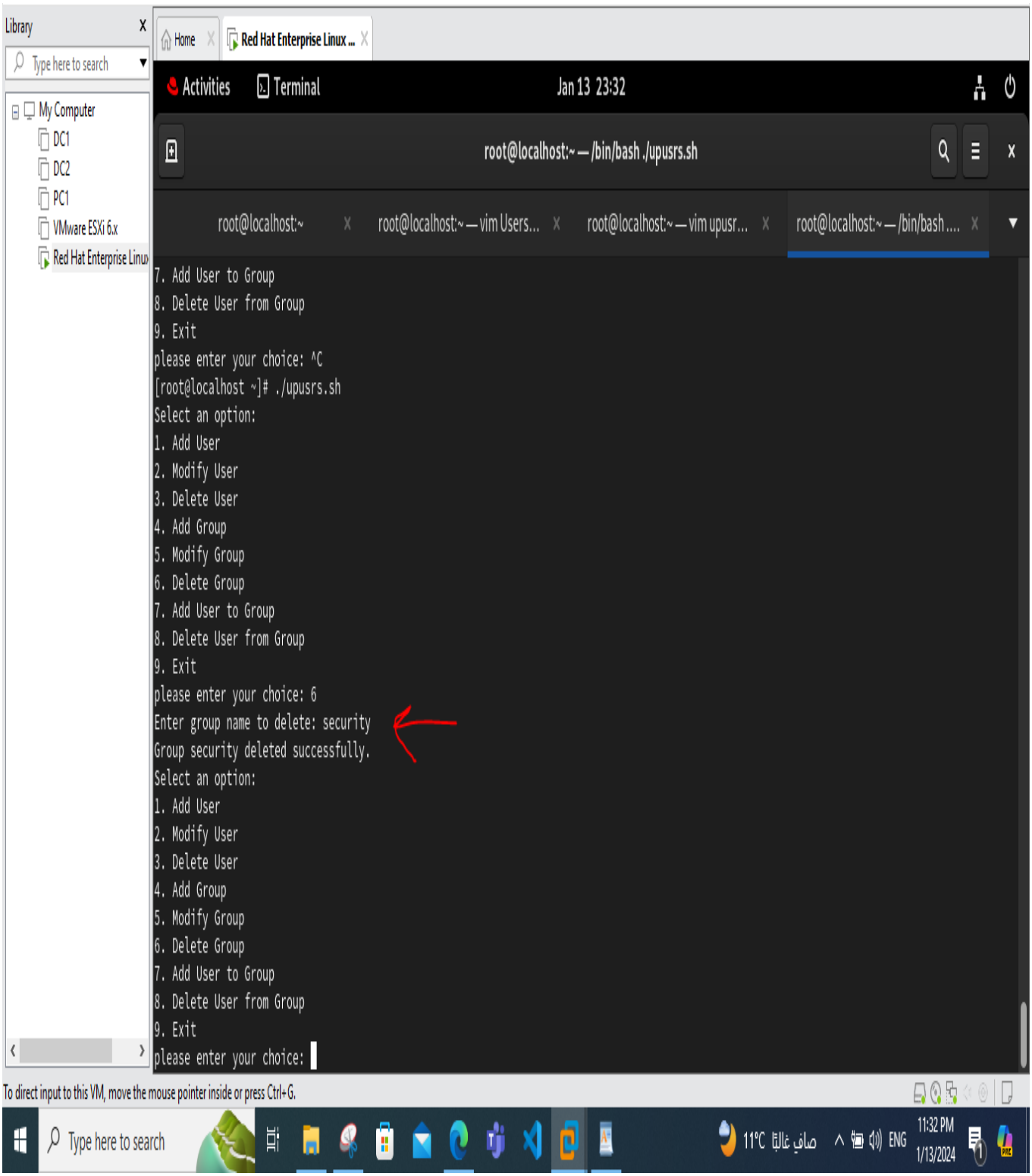
Library
Type here to search
My Computer
DC1
DC2
PC1
VMware ESXi 6.x
Red Hat Enterprise Linux
Home
Red Hat Enterprise Linux ...
Activities
Terminal
Jan 13 23:32
root@localhost:~ — /bin/bash ./upusrs.sh
root@localhost:~
root@localhost:~ — vim Users...
root@localhost:~ — vim upusr...
root@localhost:~ — /bin/bash ....
7. Add User to Group
8. Delete User from Group
9. Exit
please enter your choice: ^C
[root@localhost ~]# ./upusrs.sh
Select an option:
1. Add User
2. Modify User
3. Delete User
4. Add Group
5. Modify Group
6. Delete Group
7. Add User to Group
8. Delete User from Group
9. Exit
please enter your choice: 6
Enter group name to delete: security
Group security deleted successfully.
Select an option:
1. Add User
2. Modify User
3. Delete User
4. Add Group
5. Modify Group
6. Delete Group
7. Add User to Group
8. Delete User from Group
9. Exit
please enter your choice:
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
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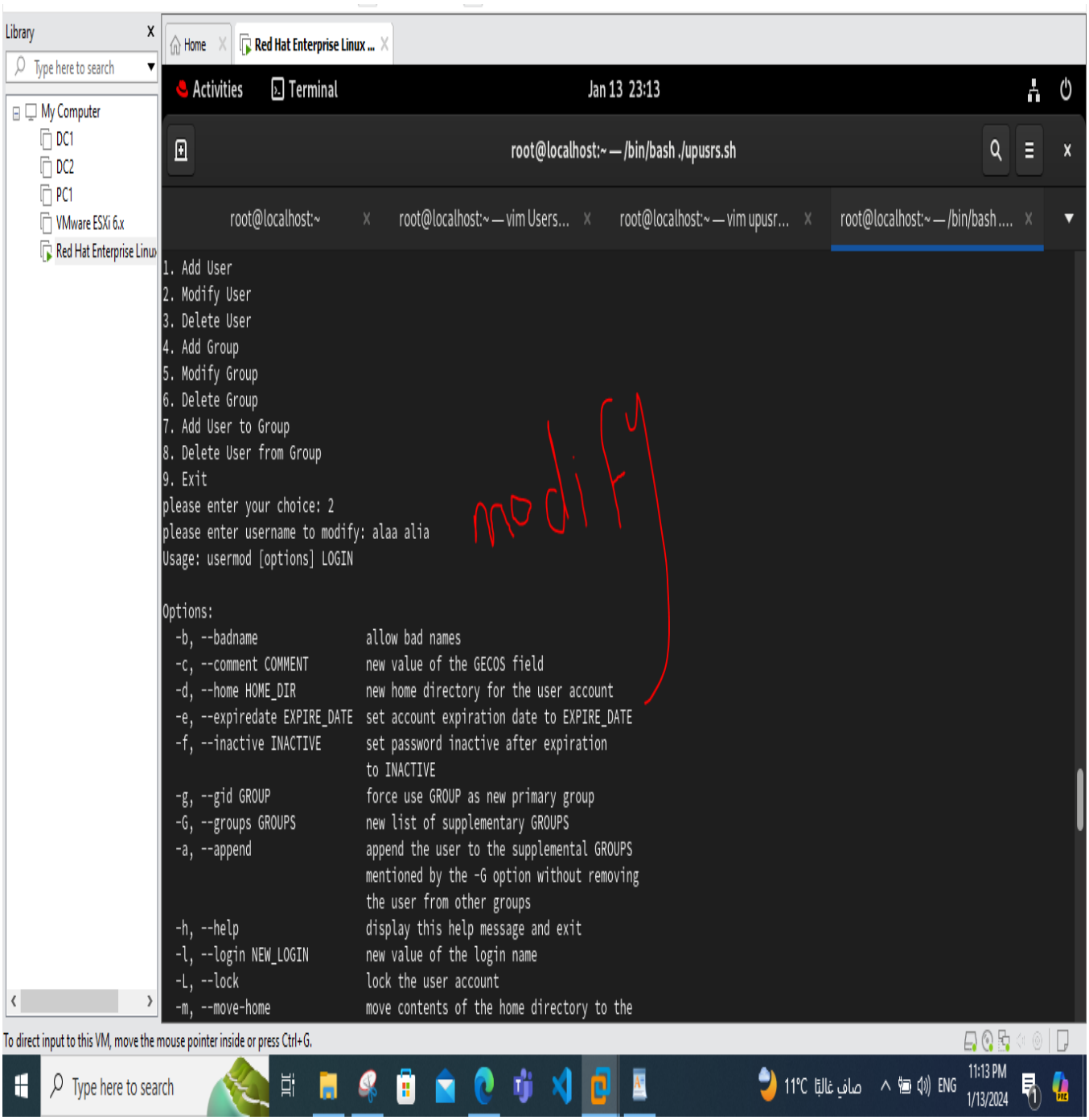
Library
Type here to search
My Computer
DC1
DC2
PC1
VMware ESXi 6.x
Red Hat Enterprise Linux
Home
Red Hat Enterprise Linux ...
Activities
Terminal
Jan 13 23:13
root@localhost:~ — /bin/bash ./upusrs.sh
root@localhost:~
root@localhost:~ — vim Users...
root@localhost:~ — vim upusr...
root@localhost:~ — /bin/bash ....
1. Add User
2. Modify User
3. Delete User
4. Add Group
5. Modify Group
6. Delete Group
7. Add User to Group
8. Delete User from Group
9. Exit
please enter your choice: 2
please enter username to modify: alaa alia
Usage: usermod [options] LOGIN
Options:
-b, --badname allow bad names
-c, --comment COMMENT new value of the GECOS field
-d, --home HOME_DIR new home directory for the user account
-e, --expiredate EXPIRE_DATE set account expiration date to EXPIRE_DATE
-f, --inactive INACTIVE set password inactive after expiration
to INACTIVE
-g, --gid GROUP force use GROUP as new primary group
-G, --groups GROUPS new list of supplementary GROUPS
-a, --append append the user to the supplemental GROUPS
mentioned by the -G option without removing
the user from other groups
-h, --help display this help message and exit
-l, --login NEW_LOGIN new value of the login name
-L, --lock lock the user account
-m, --move-home move contents of the home directory to the
modify
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
Type here to search
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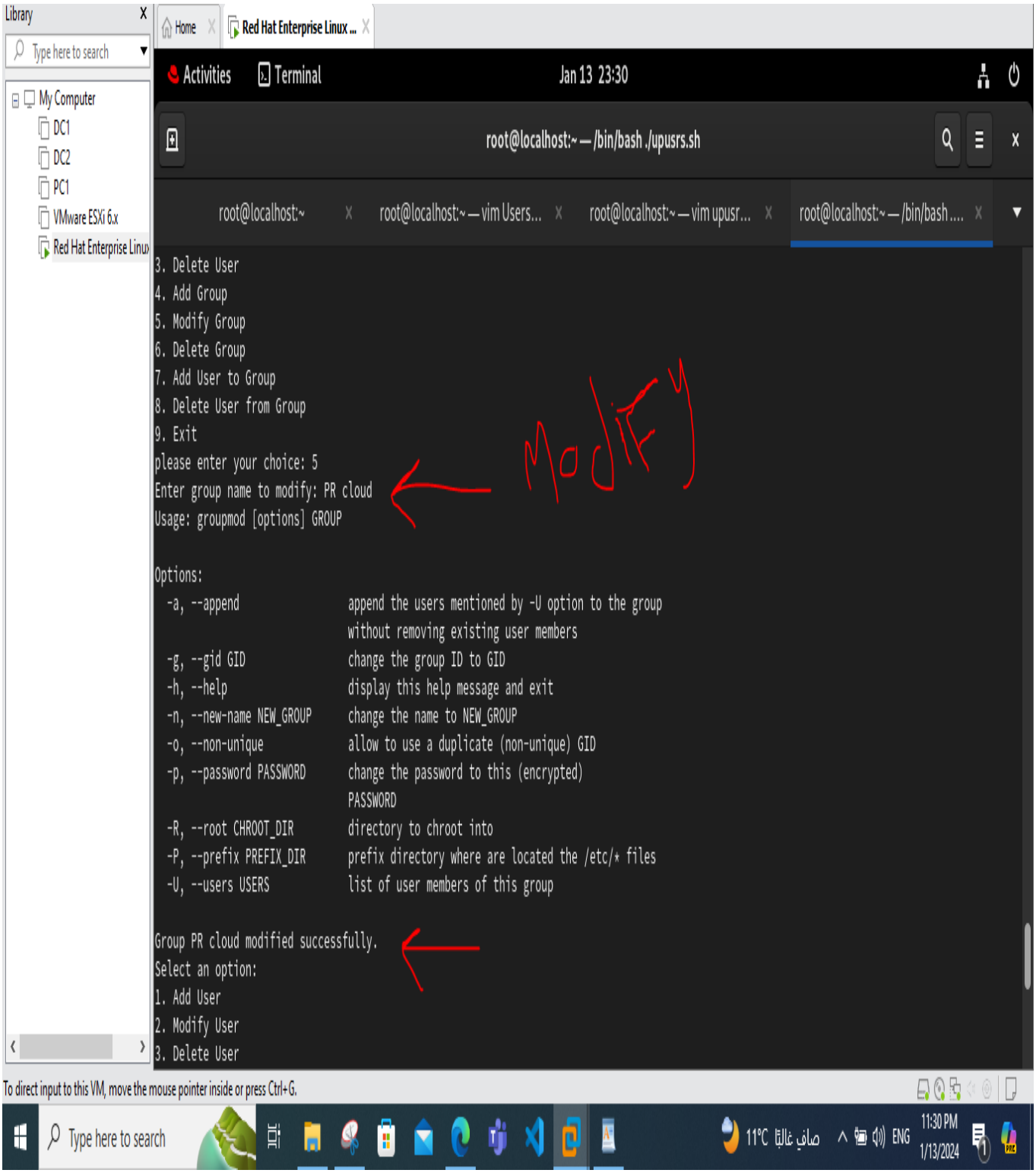
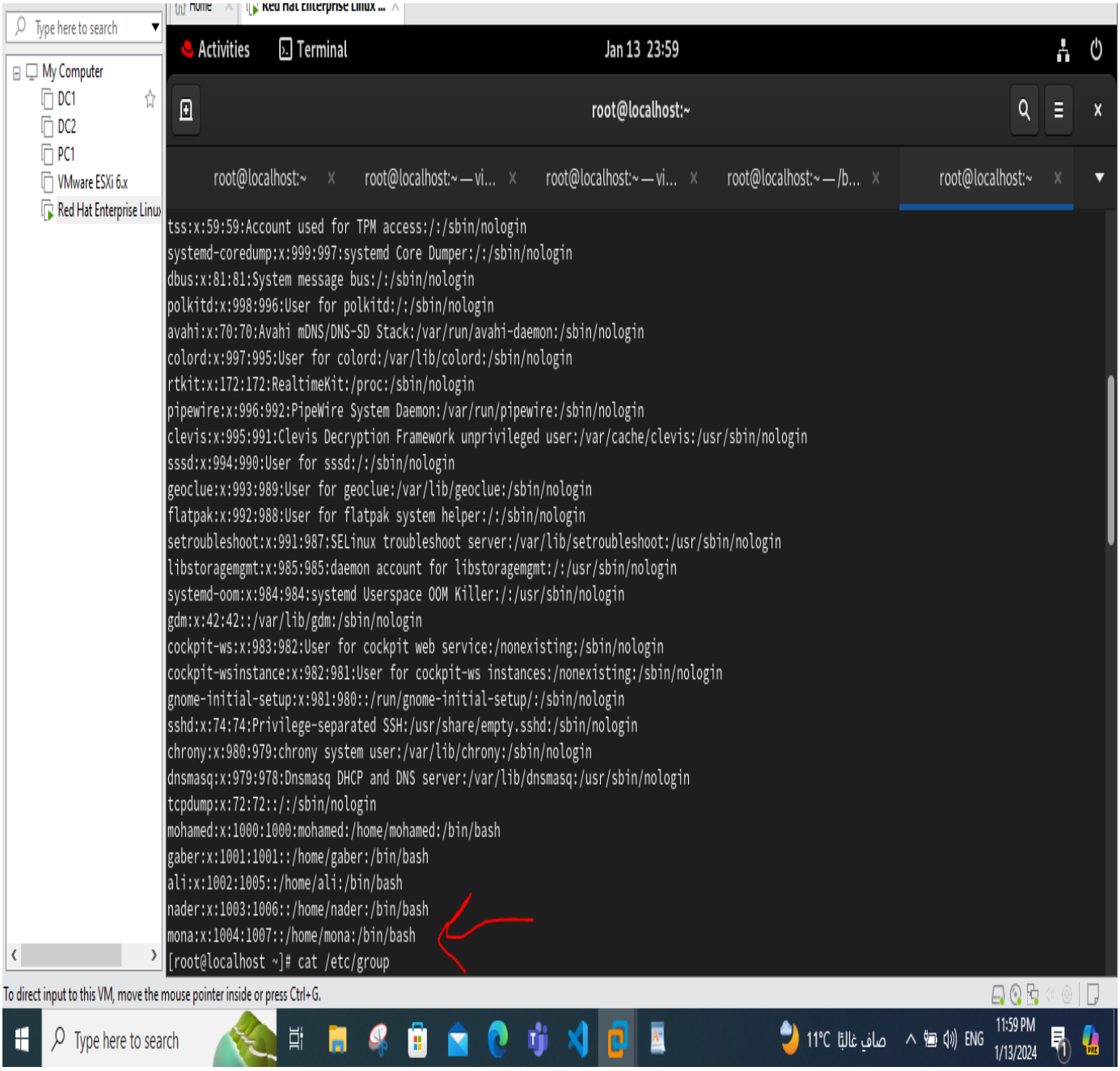
ENG
11:13 PM
1/13/2024

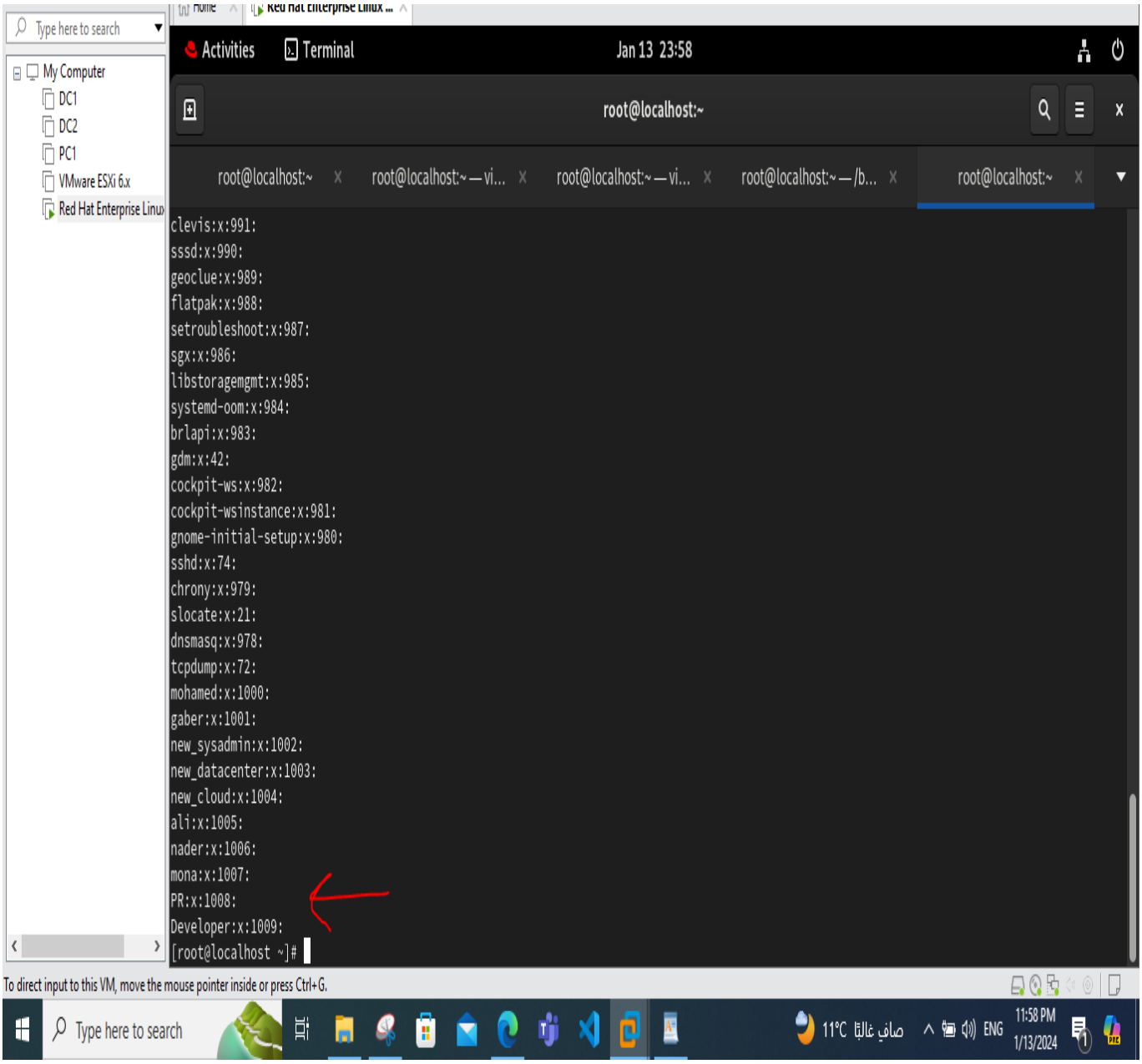


By using cat /etc/passwd

To shw users added



By use cat /etc/group



Thank you for your time I appreciate that