



ROLL NO : 127

BATCH: S23

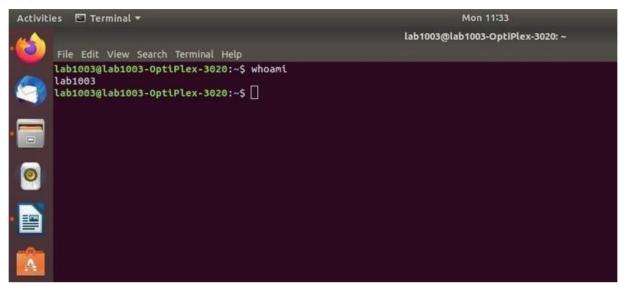
UNIX ASSIGNMENT NO 4

USER MANAGEMENT:

Who: The who command is a simple and effective way to display information about currently logged-in users.



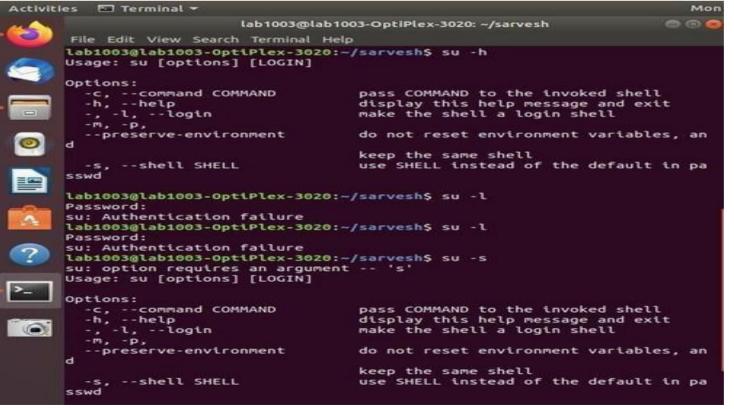
Whoami: The 'whoami' command is a simple yet powerful utility designed to reveal the current username associated with the active user session



Su : The Unix command su, which stands for 'substitute user' (or historically 'superuser'), is used by a computer user to execute commands with the privileges of another user account.
-l:makes a login shell

-h : Help command

-s:uses shell instead of default password.

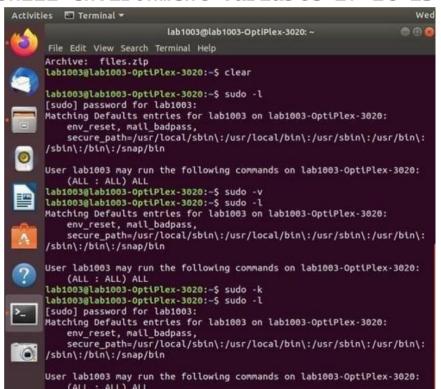


Sudo: sudo is a program for Unix-like computer operating systems that enables users to run programs with the security privileges of another user, by default the superuser

Sudo -l: will print out the commands allowed (and forbidden) the user on the current host.

Sudo -v: If, given the -v (validate) option, sudo will update the user's timestamp, prompting for the user's password if necessary. Sudo -k: The -k (kill) option to sudo invalidates the user's timestamp. So, the next time sudo is run a password will be required.

Sudo -s: The -s option runs the shell specified by the SHELL environment variable if it is set



```
lab1003@lab1003-OptiPlex-3020:~$ sudo -i
root@lab1003-OptiPlex-3020:~#
root@lab1003-OptiPlex-3020:~# ^C
root@lab1003-OptiPlex-3020:~# exit
logout
lab1003@lab1003-OptiPlex-3020:~$ sudo -s
root@lab1003-OptiPlex-3020:~#
root@lab1003-OptiPlex-3020:~# exit
exit
```

Login: login is used when signing onto a system. It can also be used to switch from one user to another at any time

Logir College to alient authentication.

This specifically does not work for root

Logout: The logout command in Unix is used to log out the currently logged-in user from the system in that session. It works programmatically and is typically executed in a login shell.

Exit: exit command in Unix is used to exit the shell where it is currently running

Passwd: The passwd command in Unix provides a straightforward and effective way to modify user passwords



Useradd: useradd is a command in Unix that is used to add user accounts to your system

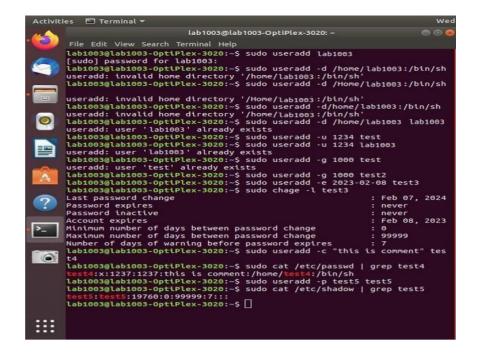
sudo useradd -d /home/lab1003 lab1003 :To give a home directory path for new users.

sudo useradd -u

1234 lab1003: To create a new user with a custom UID

sudo useradd -g 1000 lab1003:To create a new user and assign a specific group ID sudo useradd -c "comment":To add a comment or description

for a user sudo useradd -p name1 name2: To set an unencrypted password for the user



Usermod: usermod command or modify user is a command in Unix that is used to change the properties of a user in Unix through the command line. sudo usermod -c "comment" name:To add a comment for a user syuyydyo-musmer-mod -d/home/dir_name name:To change the home directory of a user sudo usermod -e dd test_user: To change the expiry date of a user sudo usermod -L test_user

sudo usermod -U test_user :To
Unlock a user

:To lock a user



Userdel: userdel command in unix system is used to delete a user account and related files.

- -f: Force removal of the user account, including home directory and mail spool, even if the user is logged in.
- -r: Remove the user's home directory along with the account. Useful for a complete cleanup.
- -R: Apply changes in the specified CHROOT_DIR, useful for user deletion operations within a chroot environment.



Groupadd: The groupadd command creates a new group account using the values specified on the command line, plus the default values from the system. The new group is entered into the system files as needed.

- -f: This option forces the command to silently abort if the group with the given name already exists.
- -g: This option assigns a specific numeric group id to the newly created group.
- -p: Sets an encrypted password for the group.

Groupmod: groupmod command in unix is used to modify or change the existing group on unix system. It can be handled by superuser or root user.

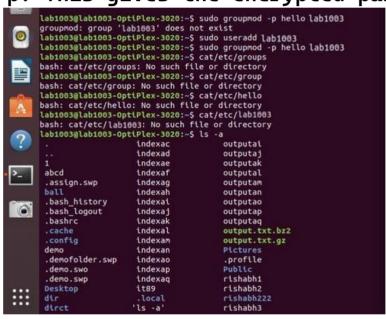
/etc/group: Group Account Information.

/etc/gshadow: Secured group account information.

/etc/login.def: Shadow passwd suite configuration.

/etc/passwd: User account information.

-p: This gives the encrypted password.

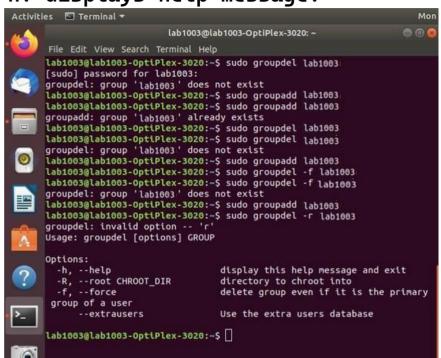


```
saned:x:119:
    avaht:x:120:
    colord:x:121:
    geoclue:x:122:
    pulse:x:123:
    pulse:access:x:124:
    gdm:x:125:
    lab1003:x:1000:
    sambashare:x:126:lab1003
    test:x:1234:
    test5:x:1238:
    sarvesh1:x:1101:
    lab1003:x:1239:
    hello:x:1240:
    lab1003:x:1241:
```

Groupdel: The 'groupdel' command is a powerful tool in unix that allows system administrators to delete existing groups.

-f:deletes the group even if it is a primary one.

-h: displays help message.



Gpasswd : gpasswd command is used to administer the /etc/group and

/etc/gshadow. As every group in unix has administrators, members, and a password.

- -a:Used for adding a password to a group
- -d:used for deleting a password from a group.

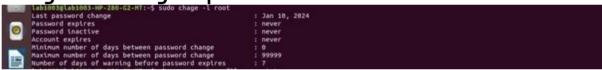
```
lab1003@lab1003-OptiPlex-3020:~$ sudo gpasswd -a sarvesh hello
Adding user sarvesh to group hello
lab1003@lab1003-OptiPlex-3020:~$ sudo gpasswd -d sarvesh hello
Removing user sarvesh from group hello
lab1003@lab1003-OptiPlex-3020:~$
```

Chown: The `chown` command, short for "change owner," is a powerful tool that allows users to change the owner of files and directories.

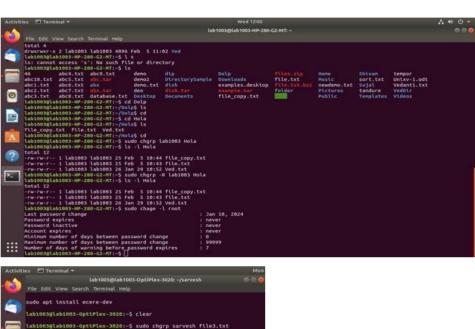
The '-c' option in the 'chown' command is utilized to report when a file change is made.

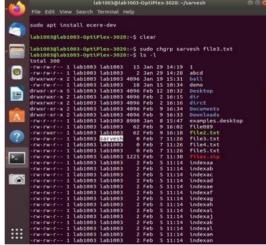
The '-v' option enhances the verbosity of the 'chown' command by showing detailed information for every processed file.

Chage: The chage command is used to view and change the user password expiry information. This command is used when the login is to be provided for a user for a limited amount of time or when it is necessary to change the login password from time to time



Chgrp: The `chgrp` command in unix is used to change the group ownership of a file or directory. All files in unix belong to an owner and a group.





Chfn: chfn modifies a user's "finger" information. This information is stored in the file /etc/passwd, and includes the user's real name, work room, work phone number, and home phone number.

-f full_name : Let you change the full name on the account

 -r room_no : Let you change the room number on the account

