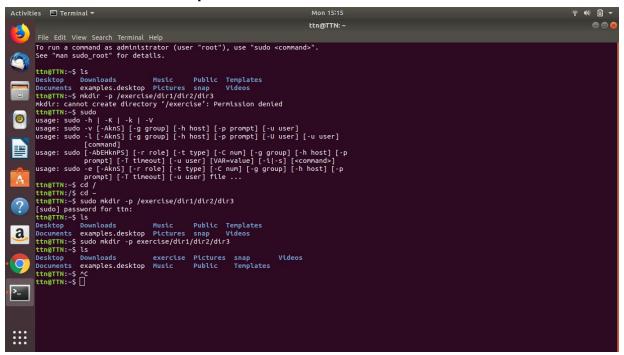
Exercise 1

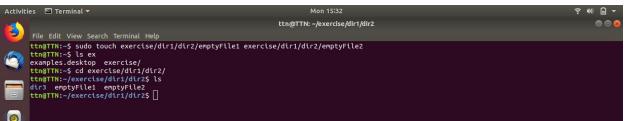
1. Create a directory "exercise" inside your home directory and create nested(dir1/dir2/dir3) directory structure inside "excerise" with single command.

Command: sudo mkdir-p exercise/dir1/dir2/dir3



Create two empty files inside dir2 directory: emptyFile1,emptyFile2 in single command

Command: touch exercise/dir1/dir2/dir3/emptyFile1.txt exercise/dir1/dir2/dir3/emptyFile1.txt



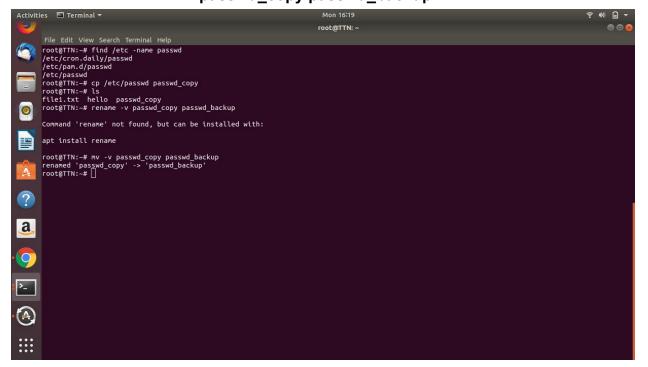
3. Create one file file1.txt containing text "hello world" and save it.

Command : echo "hello world">file1.txt cat file1.txt



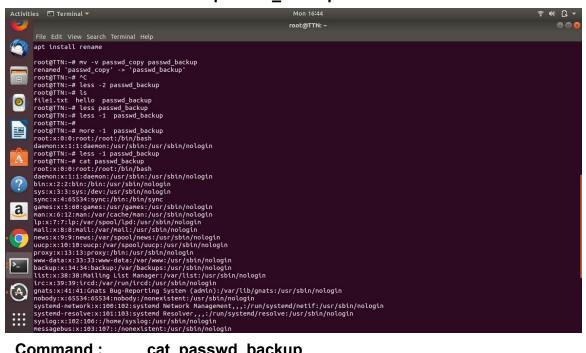
4. Find a "passwd" file using find command inside /etc. copy this files as passwd_copy and then rename this file as passwd_backup.

Command : find /etc -name passwd copy etc/passwd passwd_copy mv -v passwd_copy passwd_backup

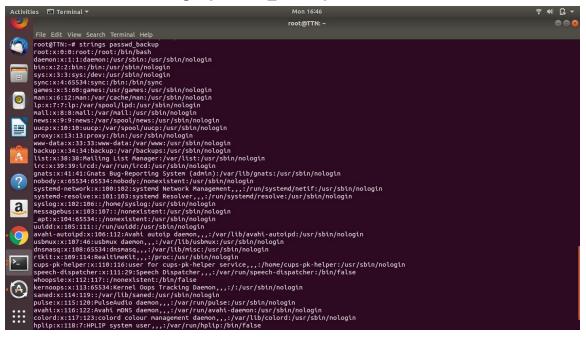


5. Try reading passwd_backup file in multiple tools: less,more,cat,strings etc and find the difference in their usage.

Command: less passwd_backup more -2 passwd_backup



Command : cat passwd_backup strings passwd_backup



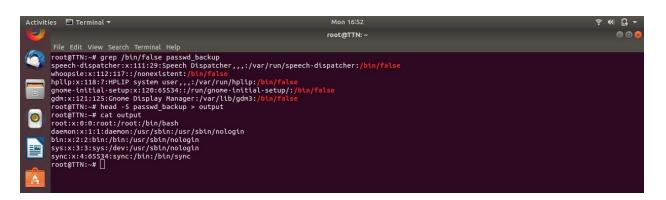
6. Find out the number of line in password backup containing "/bin/false".

Command: grep /bin/false passwd_backup



7. Get the first 5 lines of a file "password_backup" and Redirect the output of the above commands into file "output".

Command: head -5 passwd_backup > output



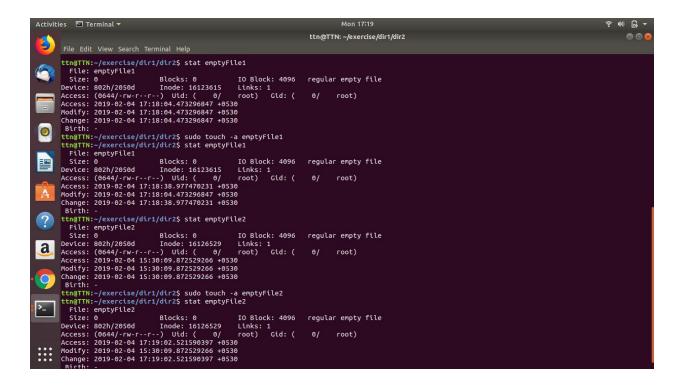
8. Create a "test" user, create its password and find out its uid and gid.

Command : useradd test passwd test id -u



9. Change the timestamp of emptyFile1,emptyFile2 which are exist in dir2

Command: sudo touch -a emptyFile1 sudo touch -a emptyFile2

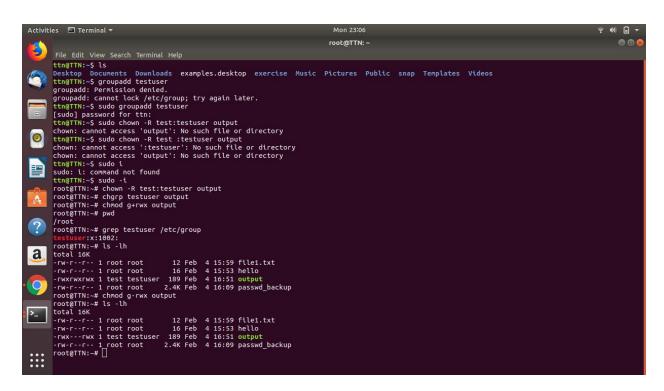


- 10. Login as test user and edit the "output" file created above. Since the permission won't allow you to save the changes. Configure such that test user can edit it.
 - 1. Add group owner of the "output" file as the secondary group of testuser and check/change the "output" file permission if it is editable by group. Once done revert the changes

Command: groupadd testuser

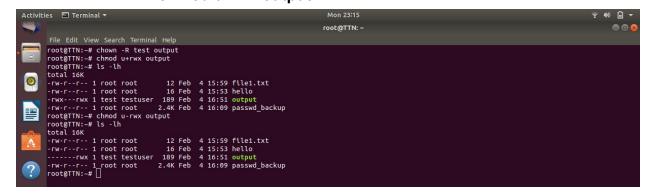
chown -R test:testuser output

chgrp testuser output
chmod g+rwx output
chmod g-rwx output



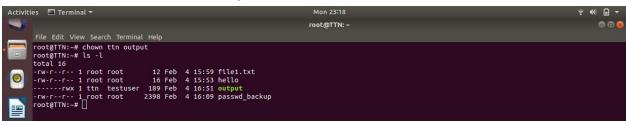
2. Make the file editable to the world so that test user can access it. Revert the changes after verification

Command: chown -R test output chmod u+rwx output chmod u-rwx output



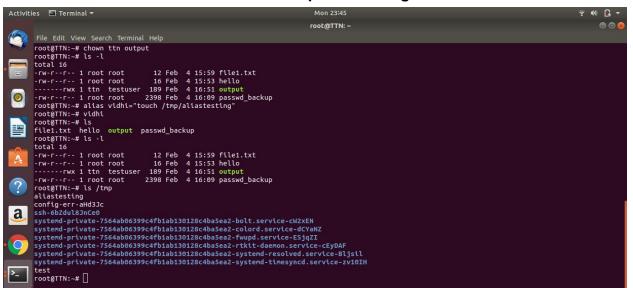
3. Change the ownership to edit the file.

Command: chown ttn output



11. Create alias with your name so that it creates a file as "/tmp/aliastesting".

Command: alias vidhi='touch /tmp/aliastesting'

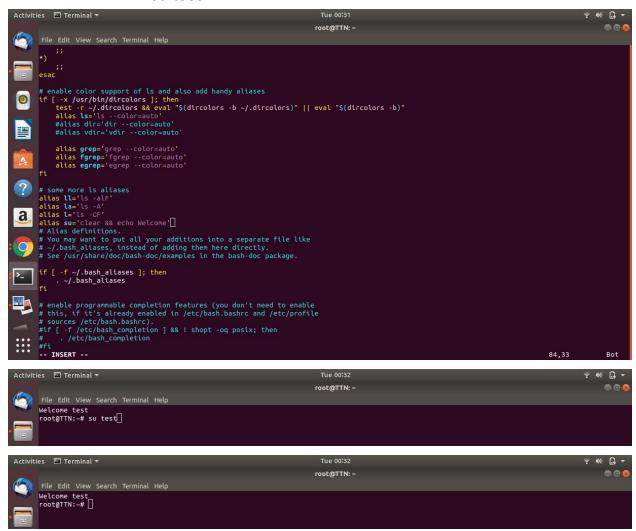


12. Edit ~/.bashrc file such that when you change to "test" user it should clear the screen and print "Welcome".

Command: vim ~/.bashrc

alias su="clear && echo Welcome"

su test



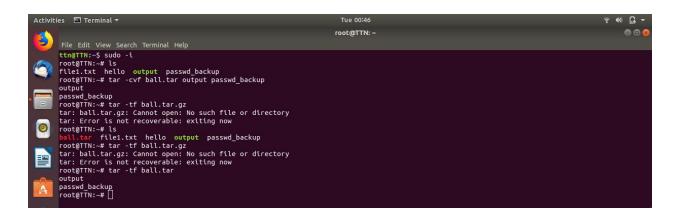
13. Install "zip" package.

Command: sudo apt-get install zip



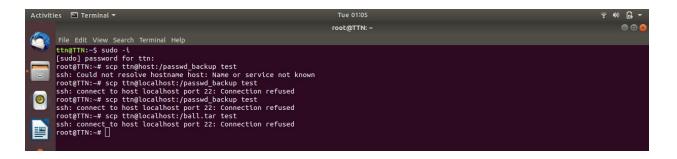
14. Compress "output" and "password_backup" files into a tar ball. List the files present inside the tar created.

Command: tar -cvf ball.tar output passwd_backup tar -tf ball.tar



15. scp this file to test user

Command: scp ttn@localhost:/ball.tar test



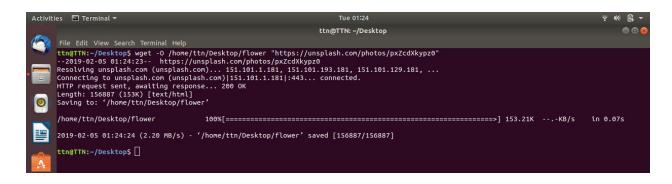
16. Unzip this tar bar by logging into the remote server

Command: tar czv ball.tar | ssh root@remoteserver 'cat | tar xz -C /remotedir'

17. Download any image from web and move to desktop

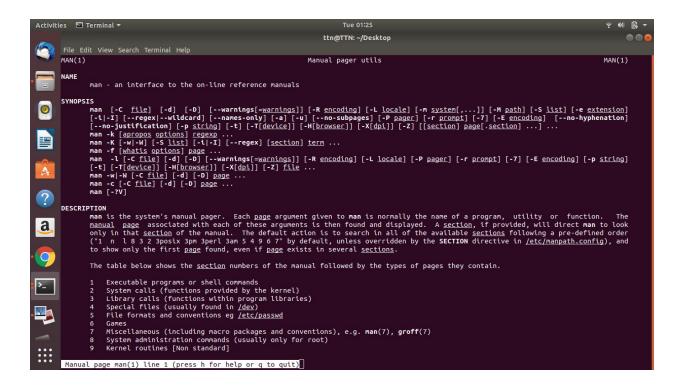
Command: wget -O /home/ttn/Desktop/flower

'https://unsplash.com/photos/pxZcdXkypz0'



18. How to get help of commands usages.

Command: man



19. Create a symlink of /etc/services into /tmp/ports-info

Command: In -s /etc/services /tmp/ports-info



20. You are appointed as a Software/DevOps Engineer in ABC media services. On your first day you need to troubleshoot a problem. There is a command "xyz" somewhere installed in that linux system. But as a new joinee you do not have any idea about where is that Installed. How can you check that?

Command : locate xyz or whereis xyz

