Linux and Networking- Linux Command Line Intro

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11 grudnia 2023

1 BlockAllow file deletion from directory by other users

1.1 Task 1

Create test_tmp directory in /home folder from using the root user permissions

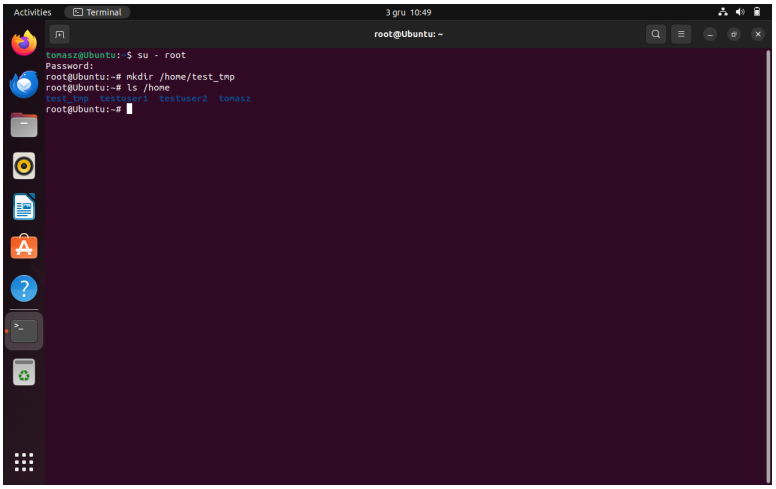

Figure 1: Create test_tmp directory

1.2 Task 2

Set rwx permissions for the owner, group and others to /home/test_tmp

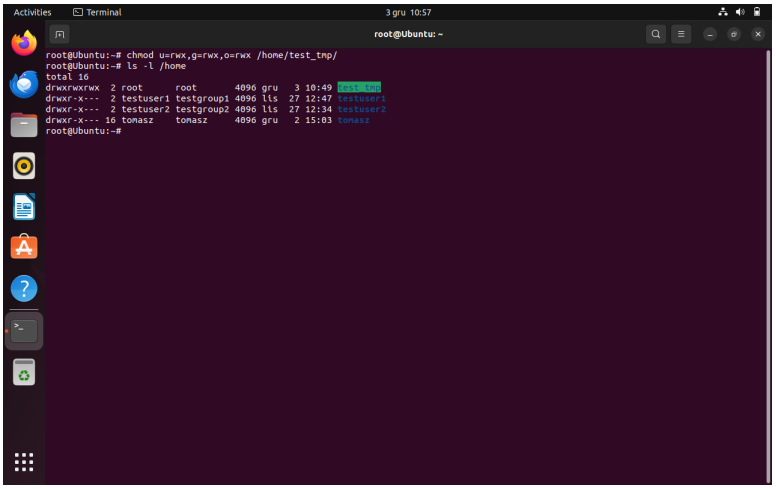

Figure 2: Set rwx permission for all

1.3 Task 3

Create test TEXT files in /home/test_tmp folder with testuser1 permissions.

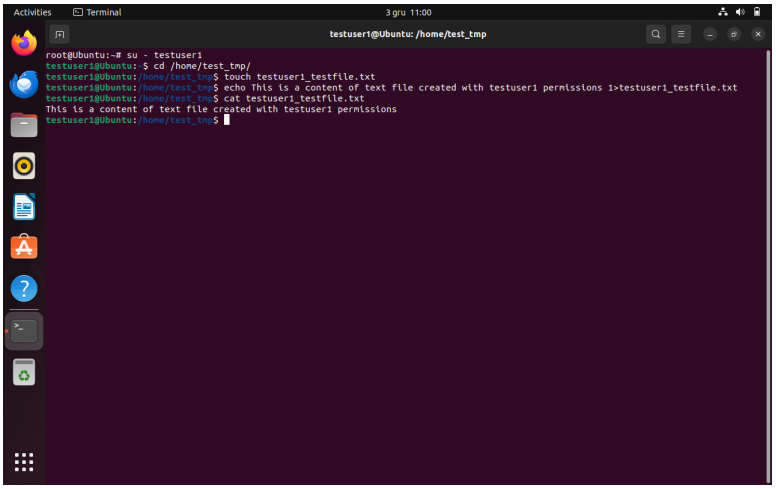

Figure 3: Testuser1 create text file

1.4 Task 4

Create test TEXT files in /home/test_tmp folder with testuser2 permissions.

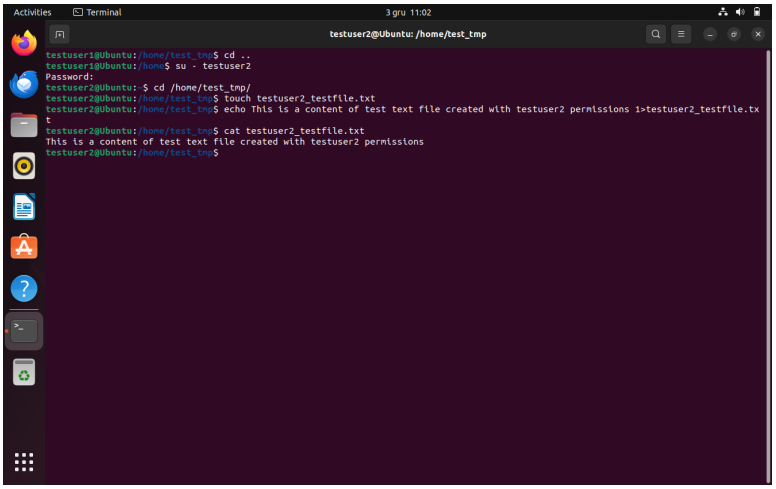

Figure 4: Testuser2 create text file

1.5 Task 5 and Task 6

Block file deletion from this directory by other users. Used command

```
sudo chmod 773 /home/test_tmp
```

Then try deleting files belonging to testuser1 from the testuser2 account.

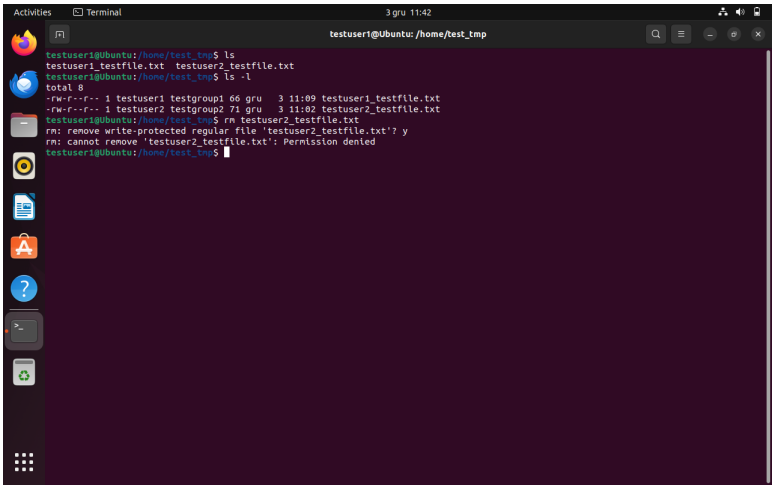

Figure 5: Block file deletion by other users

1.6 Task 7 and Task 8

Allow file deletion from this directory by other users Try deleting files belonging to testuser1 from the testuser2 account

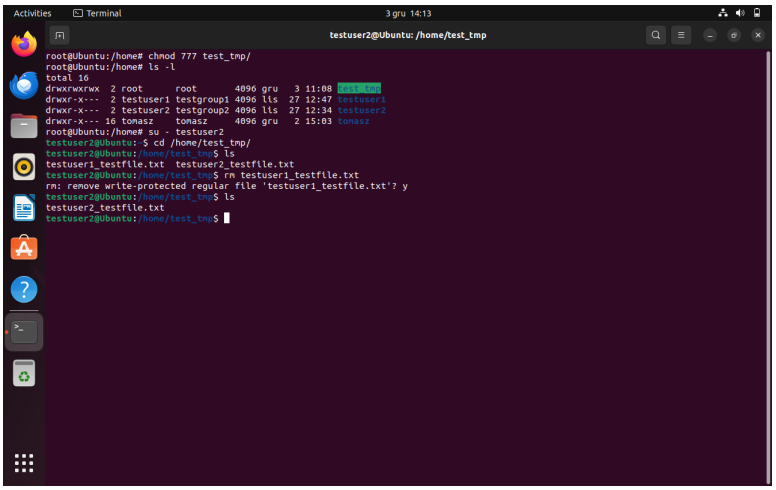

Figure 6: Allow file deletion from this directory

2 Verify that SUID bit does not work for executable Shell scripts

2.1 Task 1 and Task 2

- Create suid_test.sh script from the testuser1 credentials with the following content: “#!/bin/sh whoami”,
- Set execution bit for everyone

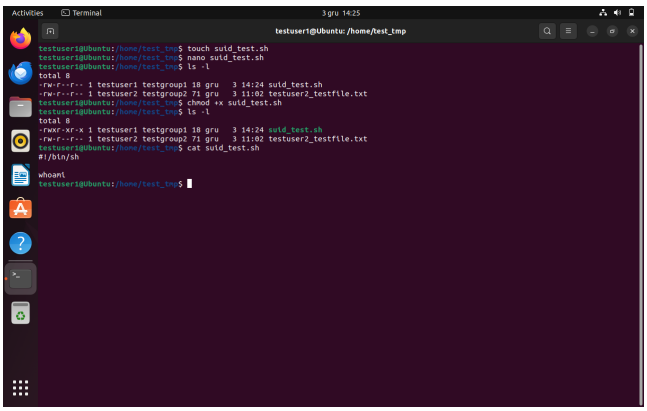

Figure 7: Create script

2.2 Task 3

Try executing test_suid.sh script from different users

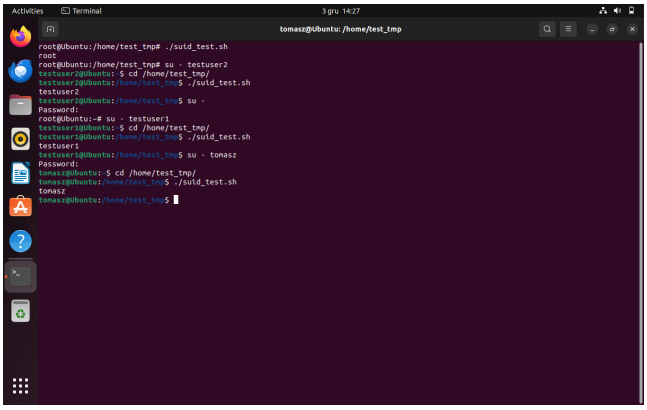

Figure 8: Execute test_suid.sh script from different users

2.3 Task 4

Try changing UIDs to the different users to test_suid.sh and repeat Task 3

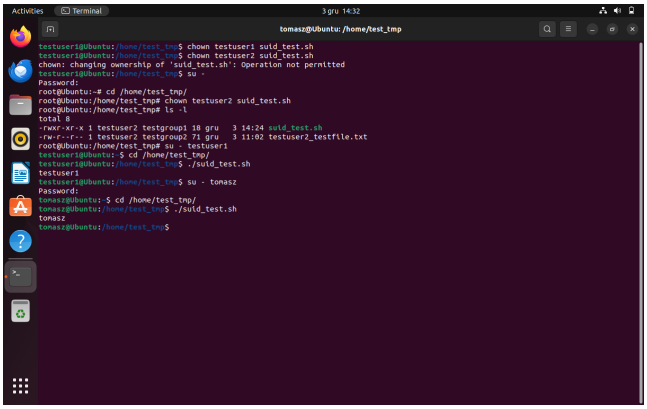

Figure 9: Set execution bit for everyone

3 Changing the Shell for the users

3.1 Task 1

Install zsh.

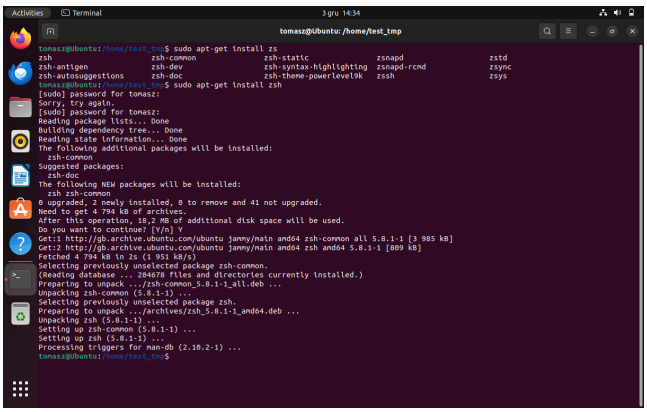

Figure 10: Install zsh

3.2 Task 2

Install tcsh.

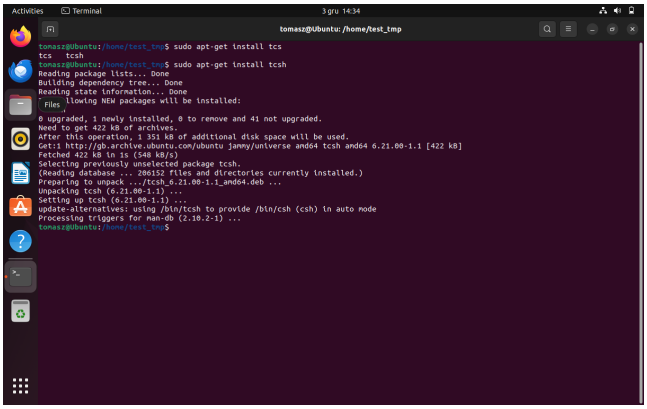

Figure 11: Install tcsh

3.3 Task 3

Change shell to zsh for the user testuser1.

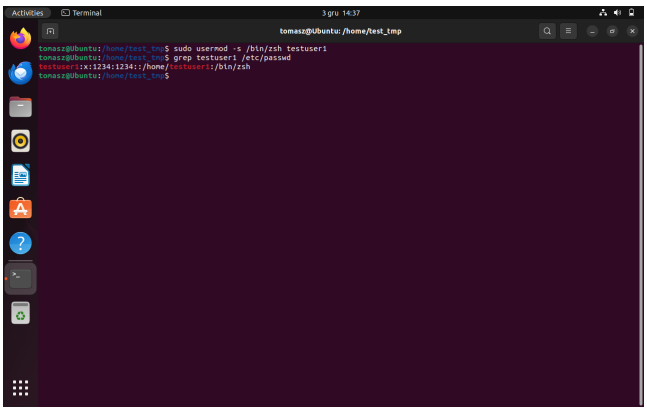

Figure 12: Change shell to zsh

3.4 Task 4

Log-in to CLI with the testuser1 credentials

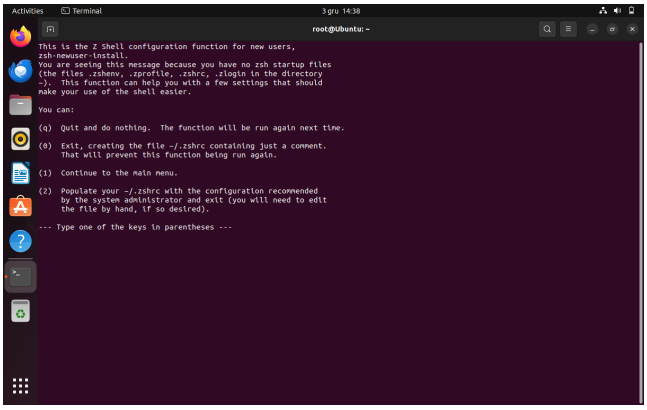

Figure 13: Log in to testuser1 shell

3.5 Task 5

Output processes list for the testuser1.

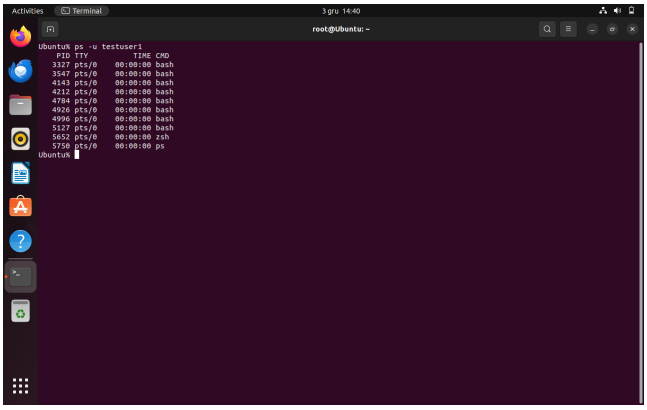

Figure 14: List testuser1 processes

3.6 Task 6

Output processes list for the testuser2.

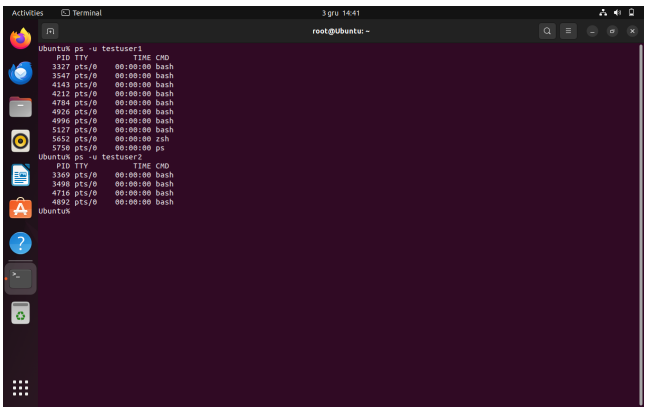

Figure 15: List testuser2 processes

3.7 Task 7

Change shell to tcsh for the user testuser2

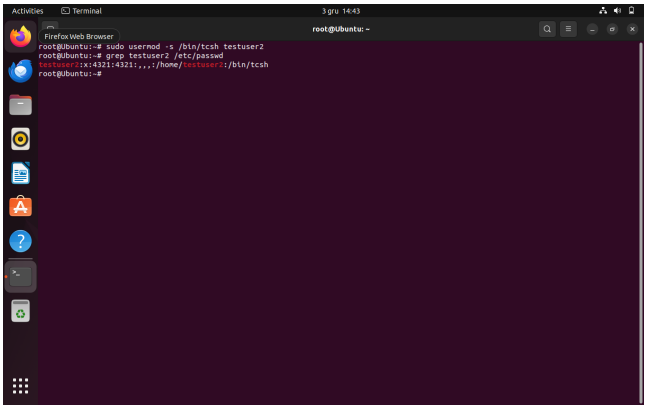

Figure 16: Change shell to tcsh for the user testuser2

3.8 Task 8

Log-in to CLI with the testuser2 credentials

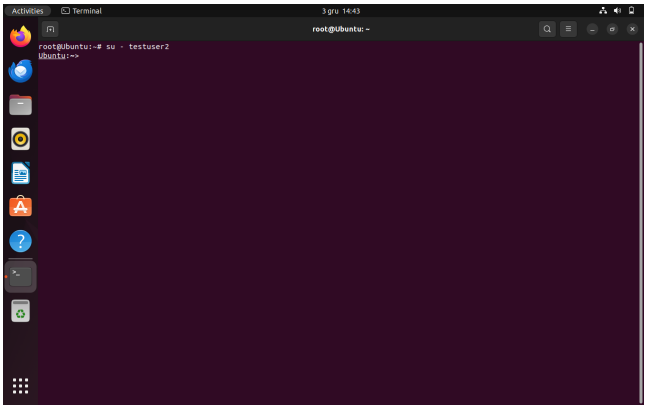

Figure 17: Change shell to tcsh for the user testuser2

3.9 Task 9

Output processes list for the root user

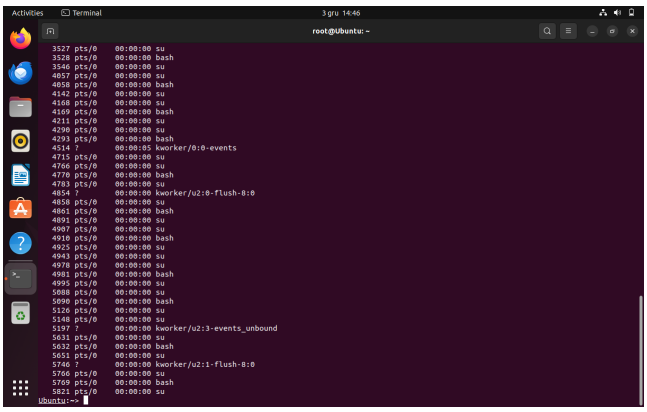

Figure 18: Process root list

4 Find task

- Find all files containing SUID bit in,
- Provide find options used,
- Capture and provide an output for evaluation

Output file will be provided as an attachment. It will be provided on my Google Drive.

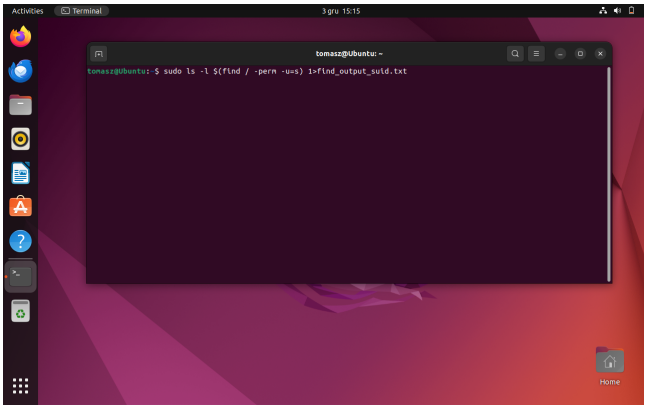

Figure 19: Find all files containig SUID bit in