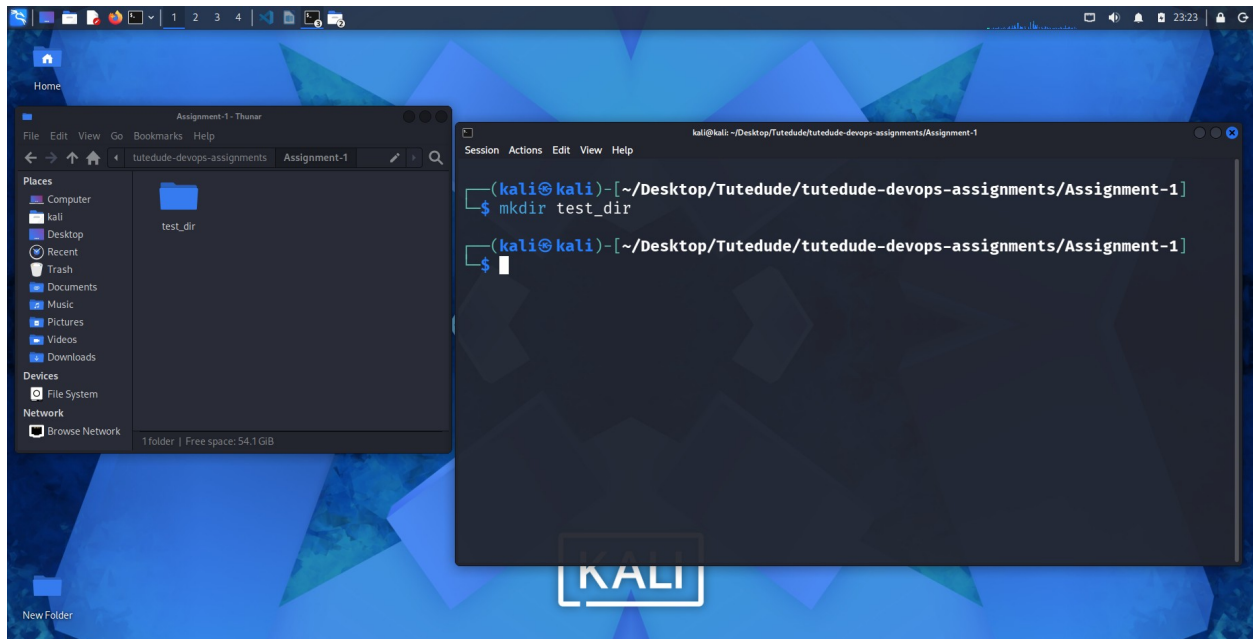


1. Creating and Renaming Files/Directories

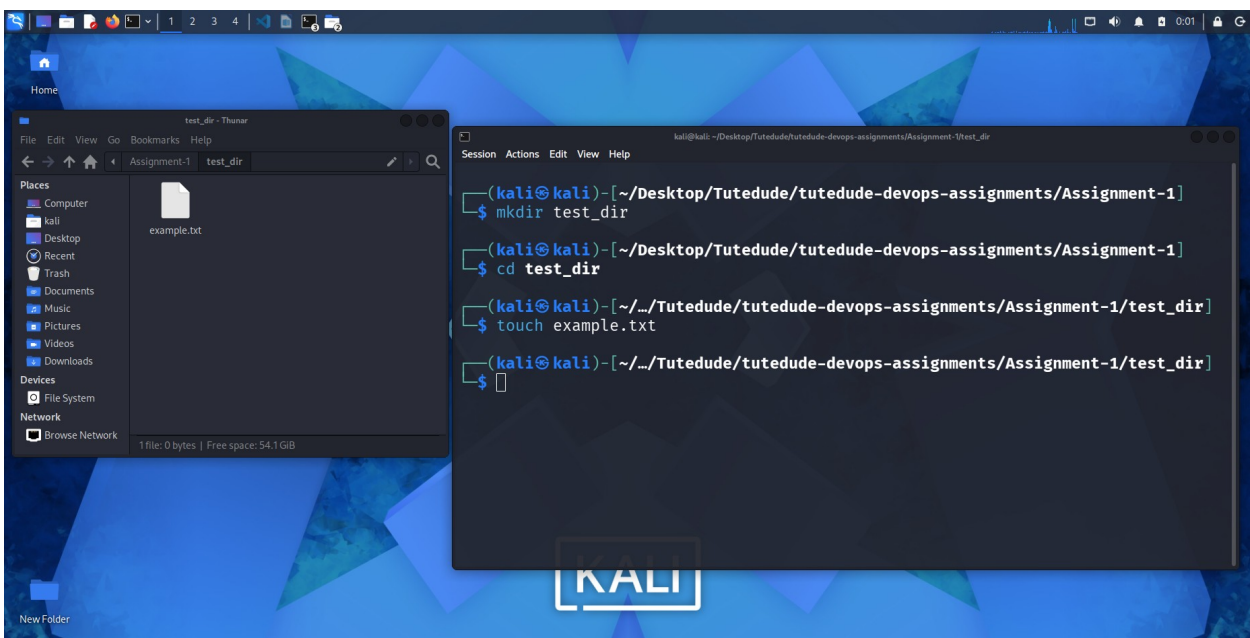
Create a directory named `test_dir` using `mkdir`.

mkdir test_dir



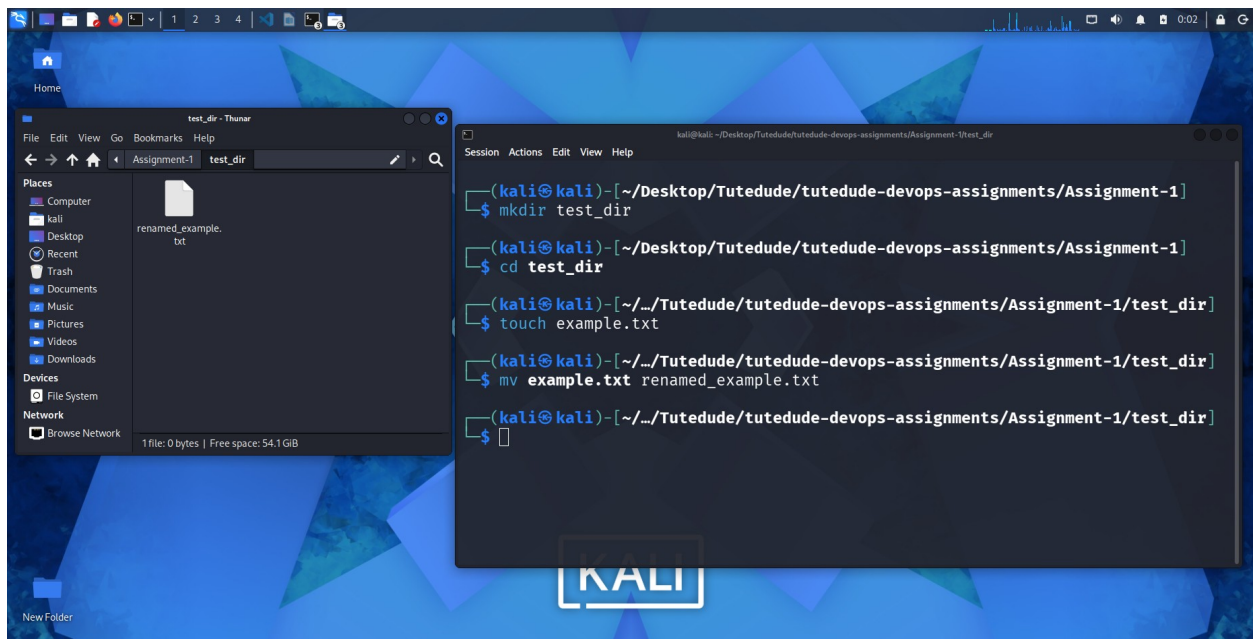
Inside `test_dir`, create an empty file called `example.txt`.

touch example.txt



Rename example.txt to renamed_example.txt using mv

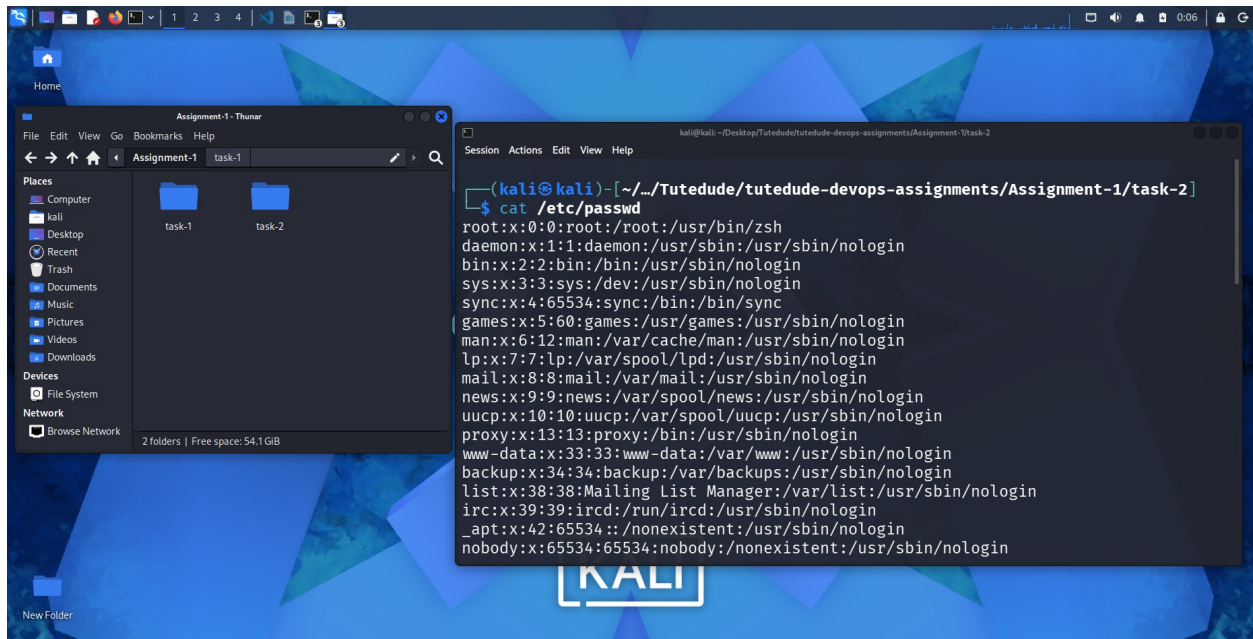
mv example.txt renamed_example.txt



2. Viewing File Contents

Use cat to display the contents of /etc/passwd.

cat /etc/passwd

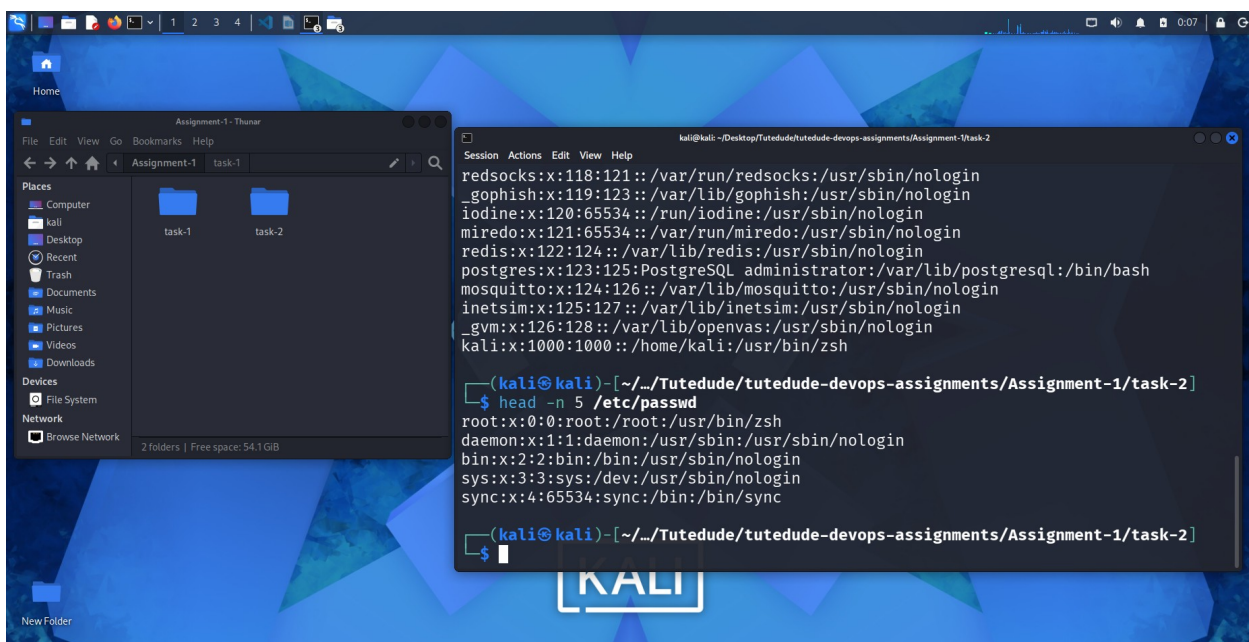


The screenshot shows a Kali Linux desktop environment. On the left, a file manager window titled 'Assignment-1 - Thunar' is open, displaying a directory structure with 'task-1' and 'task-2' folders. On the right, a terminal window is open, showing the command `cat /etc/passwd` being executed. The output of the command is displayed in the terminal, listing system and user accounts with their respective UID, GID, name, password field, and shell.

```
(kali@kali)-[~/../Tutodude/tutodude-devops-assignments/Assignment-1/task-2]
$ cat /etc/passwd
root:x:0:0:root:/root:/usr/bin/zsh
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
```

Display only the first 5 lines of /etc/passwd using head.

head -n 5 /etc/passwd



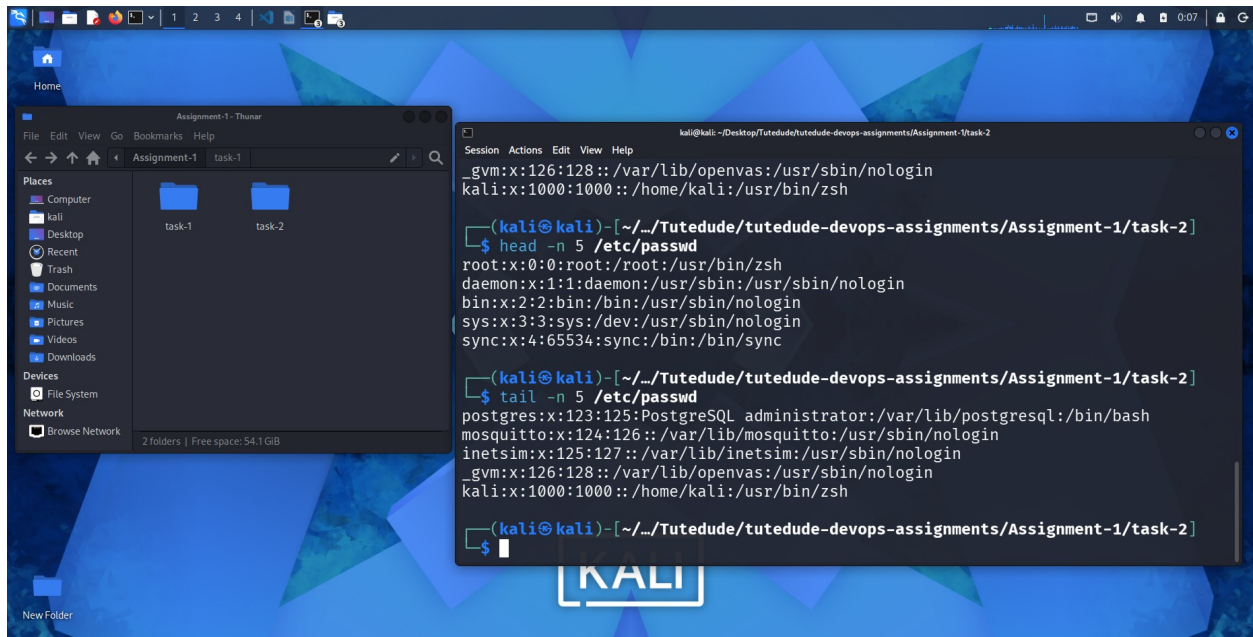
The screenshot shows a Kali Linux desktop environment. On the left, a file manager window titled 'Assignment-1 - Thunar' is open, displaying a directory structure with 'task-1' and 'task-2' folders. On the right, a terminal window is open, showing the command `head -n 5 /etc/passwd` being executed. The output of the command is displayed in the terminal, showing the first five lines of the /etc/passwd file.

```
(kali@kali)-[~/../Tutodude/tutodude-devops-assignments/Assignment-1/task-2]
$ head -n 5 /etc/passwd
redsocks:x:118:121::/var/run/redsocks:/usr/sbin/nologin
_gophish:x:119:123::/var/lib/gophish:/usr/sbin/nologin
iodine:x:120:65534::/run/iodine:/usr/sbin/nologin
miredo:x:121:65534::/var/run/miredo:/usr/sbin/nologin
redis:x:122:124::/var/lib/redis:/usr/sbin/nologin
postgres:x:123:125:PostgreSQL administrator:/var/lib/postgresql:/bin/bash
mosquitto:x:124:126::/var/lib/mosquitto:/usr/sbin/nologin
inetsim:x:125:127::/var/lib/inetsim:/usr/sbin/nologin
_gvm:x:126:128::/var/lib/opensvas:/usr/sbin/nologin
kali:x:1000:1000::/home/kali:/usr/bin/zsh

(kali@kali)-[~/../Tutodude/tutodude-devops-assignments/Assignment-1/task-2]
$
```

Display only the last 5 lines of /etc/passwd using tail.

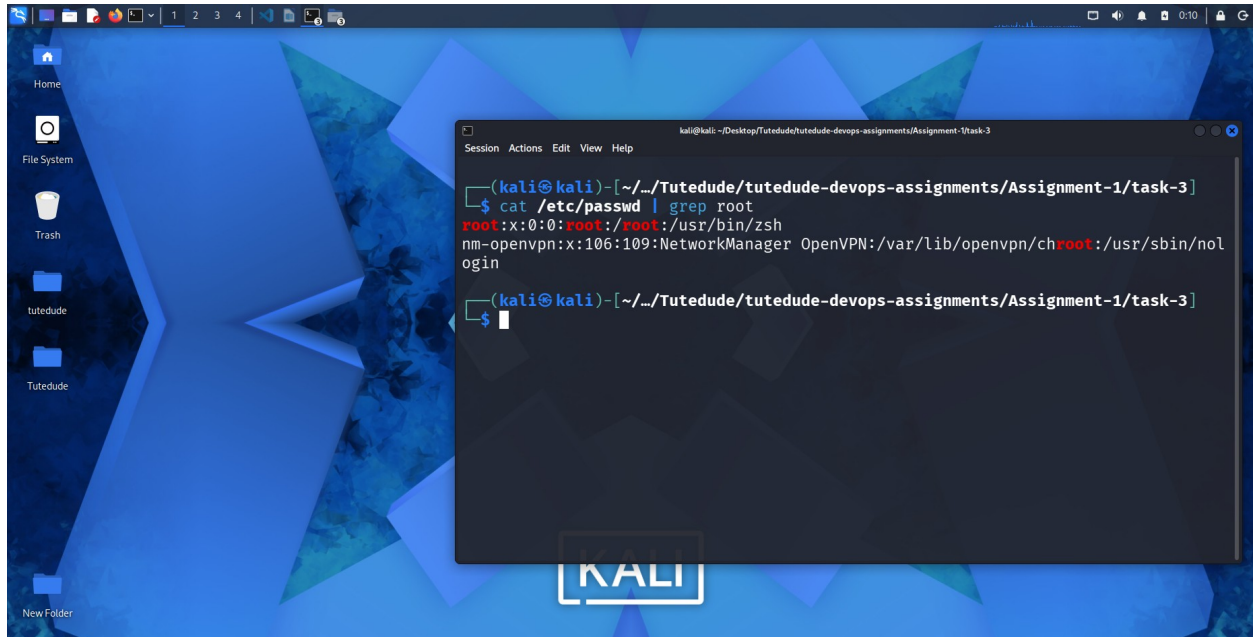
tail -n 5 /etc/passwd



3. Searching for Patterns

Use grep to find all lines containing the word "root" in /etc/passwd.

cat /etc/passwd | grep root



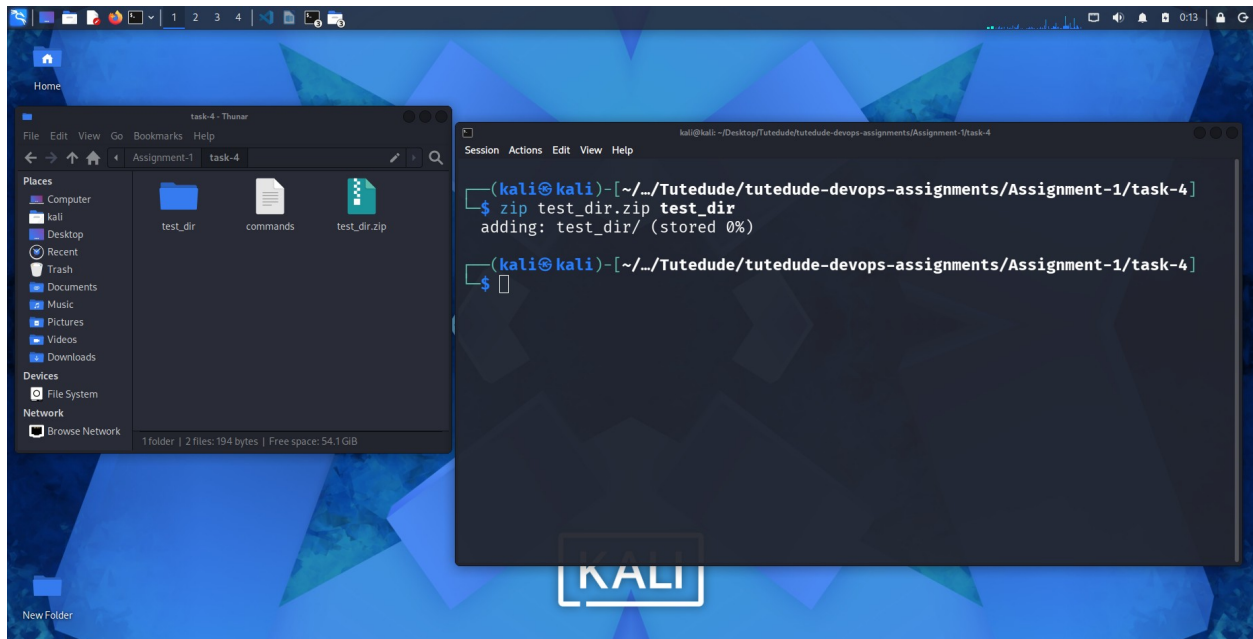
The screenshot shows a Kali Linux desktop environment with a blue geometric wallpaper. A terminal window is open, displaying the command `cat /etc/passwd | grep root` and its output. The output lists system users: `root:x:0:0:root:/usr/bin/zsh` and `nm-openvpn:x:106:109:NetworkManager OpenVPN:/var/lib/openvpn/chroot:/usr/sbin/nologin`. The terminal window title is `kali@kali: ~/Desktop/Tutodude/tutodude-devops-assignments/Assignment-1/task-3`. The desktop has icons for Home, File System, Trash, tutodude, and Tutodude, along with a 'New Folder' button in the bottom left.

```
kali@kali: ~/Desktop/Tutodude/tutodude-devops-assignments/Assignment-1/task-3
$ cat /etc/passwd | grep root
root:x:0:0:root:/usr/bin/zsh
nm-openvpn:x:106:109:NetworkManager OpenVPN:/var/lib/openvpn/chroot:/usr/sbin/nologin
$
```


4. Zipping and Unzipping

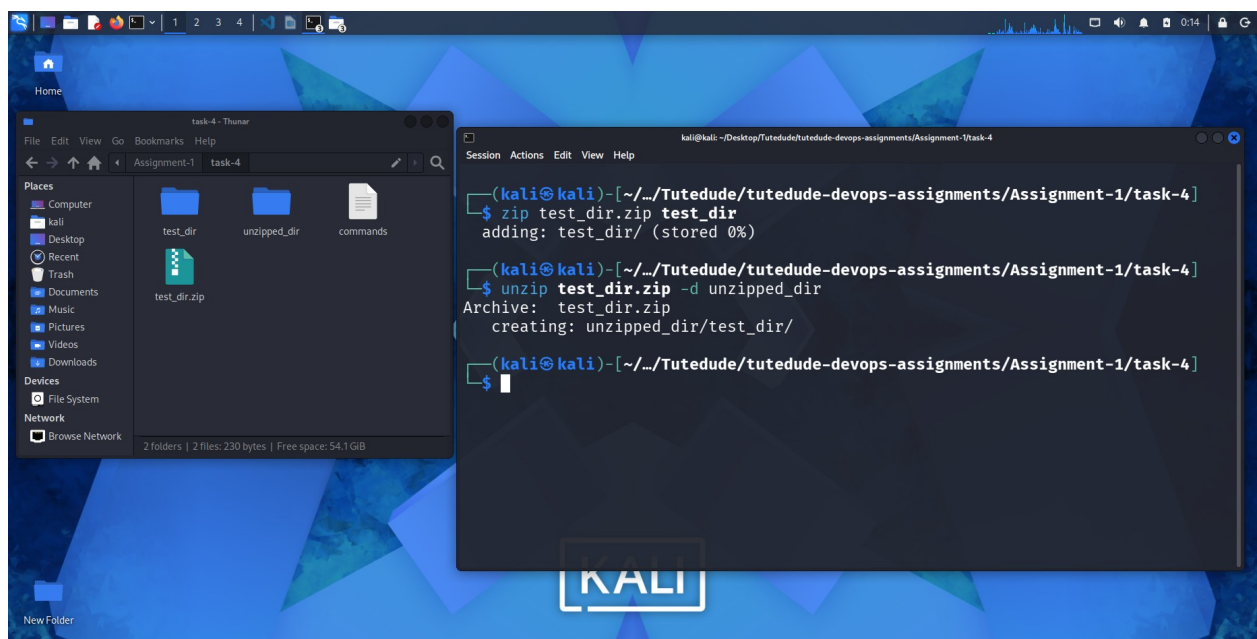
Compress the test_dir directory into a file named test_dir.zip using zip.

zip test_dir.zip test_dir



Unzip test_dir.zip into a new directory named unzipped_dir.

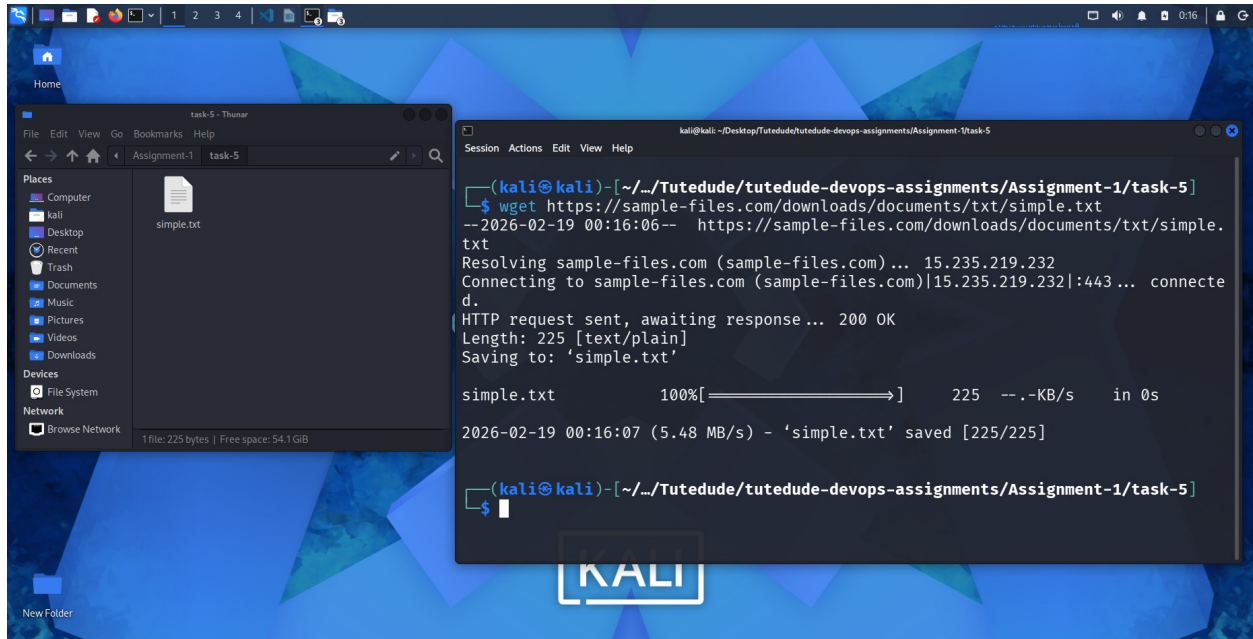
unzip test_dir.zip -d unzipped_dir



5. Downloading Files

Use `wget` to download a file from a URL (e.g., <https://example.com/sample.txt>).

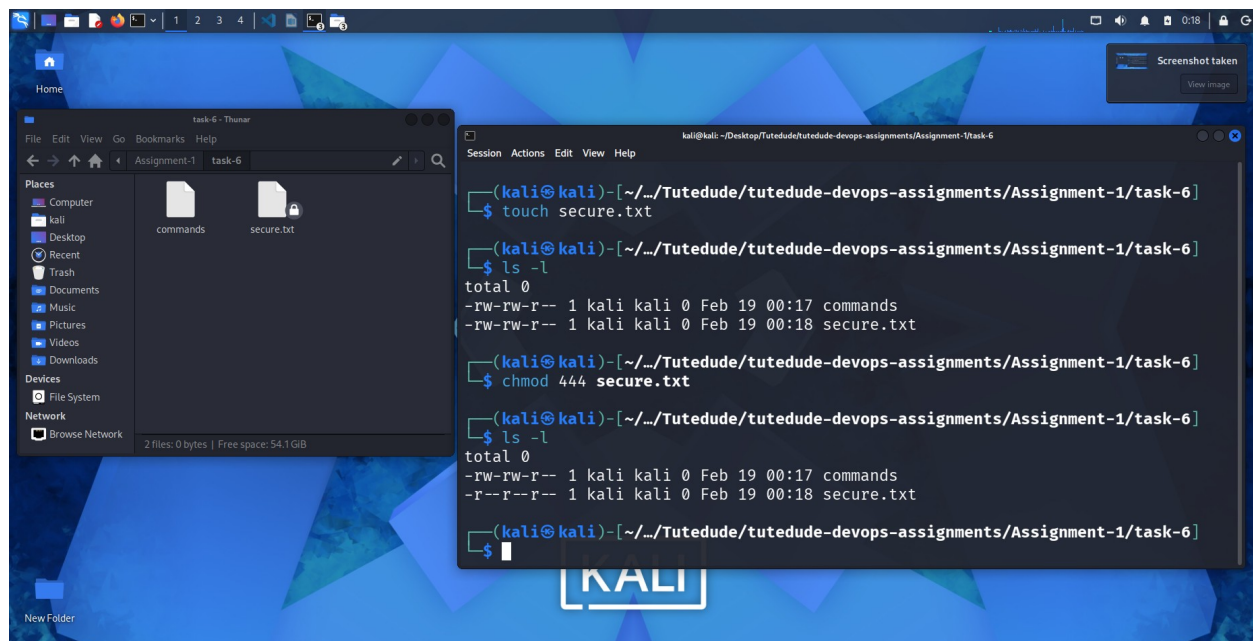
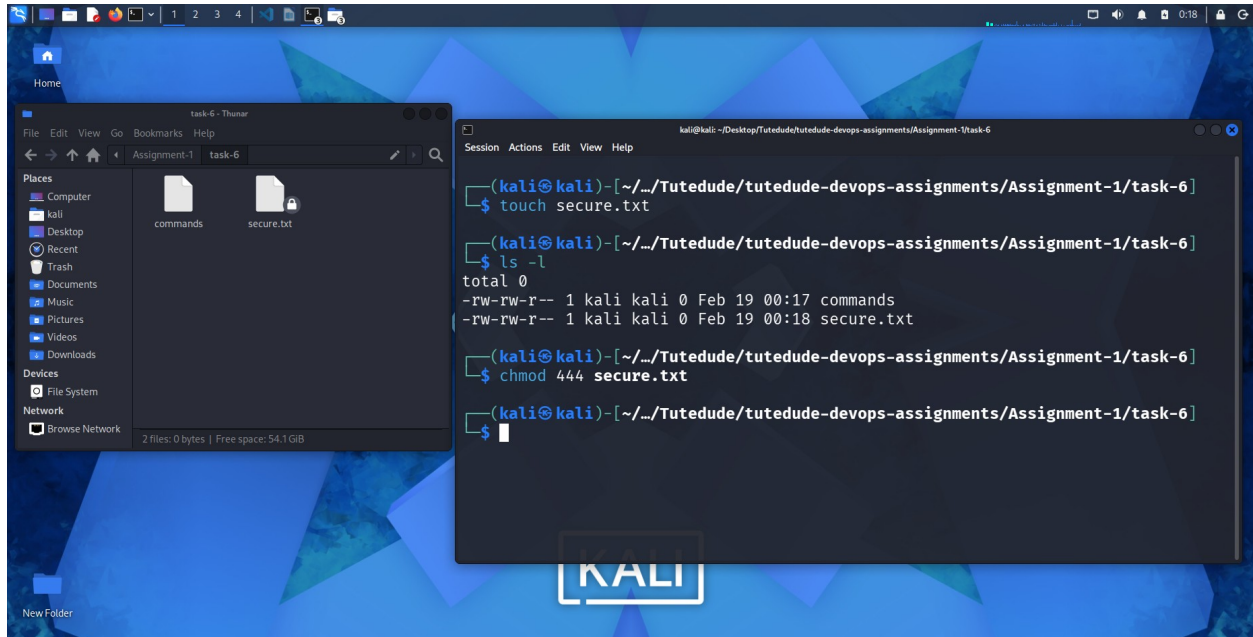
wget <https://example.com/sample.txt>



6. Changing Permissions

Create a file named `secure.txt` and change its permissions to read-only for everyone using `chmod`.

chmod 444 secure.txt



7. Working with Environment Variables

Use export to set a new environment variable called MY_VAR with the value "Hello, Linux!".

export MY_VAR="Hello, Linux!"

