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**Reg no.:** 20BIT0450

**Campus:** VIT, Vellore

## **Title: Linux Command List Assessment**

### **Instructions:-**

The following assessment aims to test your understanding and practical knowledge of various Linux commands. Perform the tasks given below using the appropriate commands. Write down the command(s) used to complete each task. You can use any Linux distribution or command-line interface of your choice. Ensure that you provide the correct output or results for each task.

Note: It is recommended to perform this assessment on a Linux machine or virtual environment.

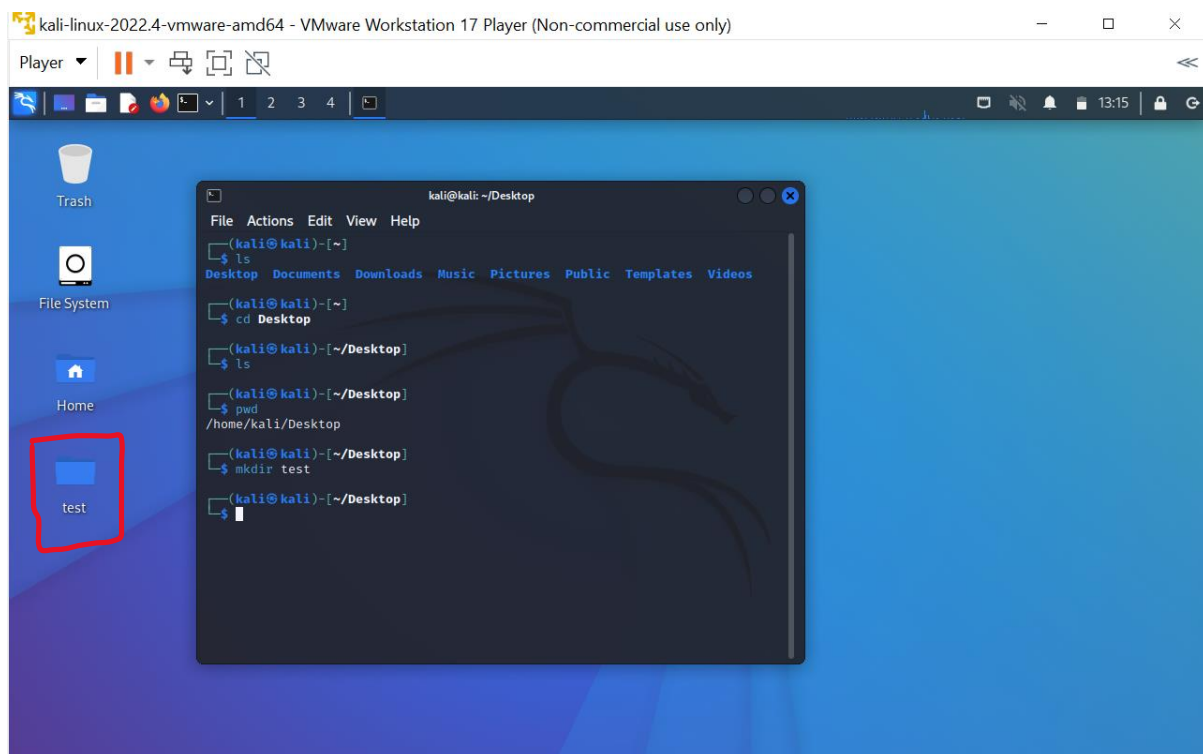
### **File and Directory Operations:**

ls: List files and directories

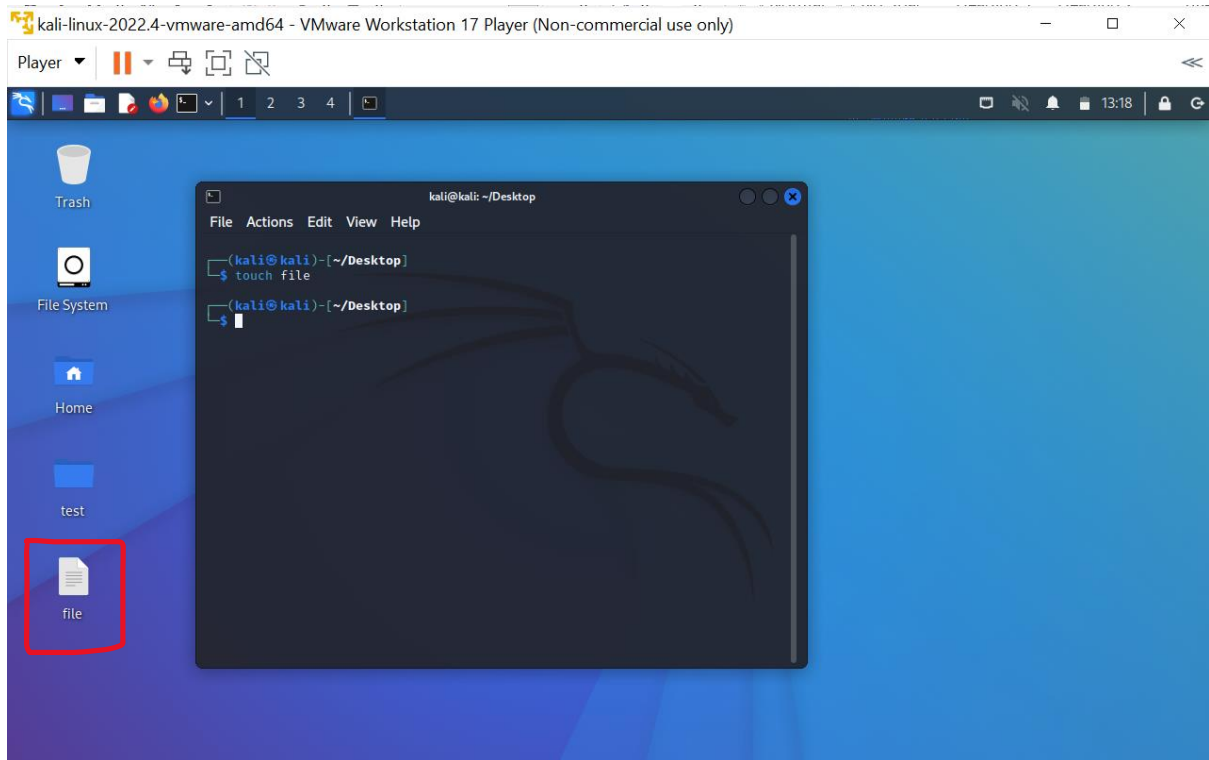
cd: Change directory

pwd: Print working directory

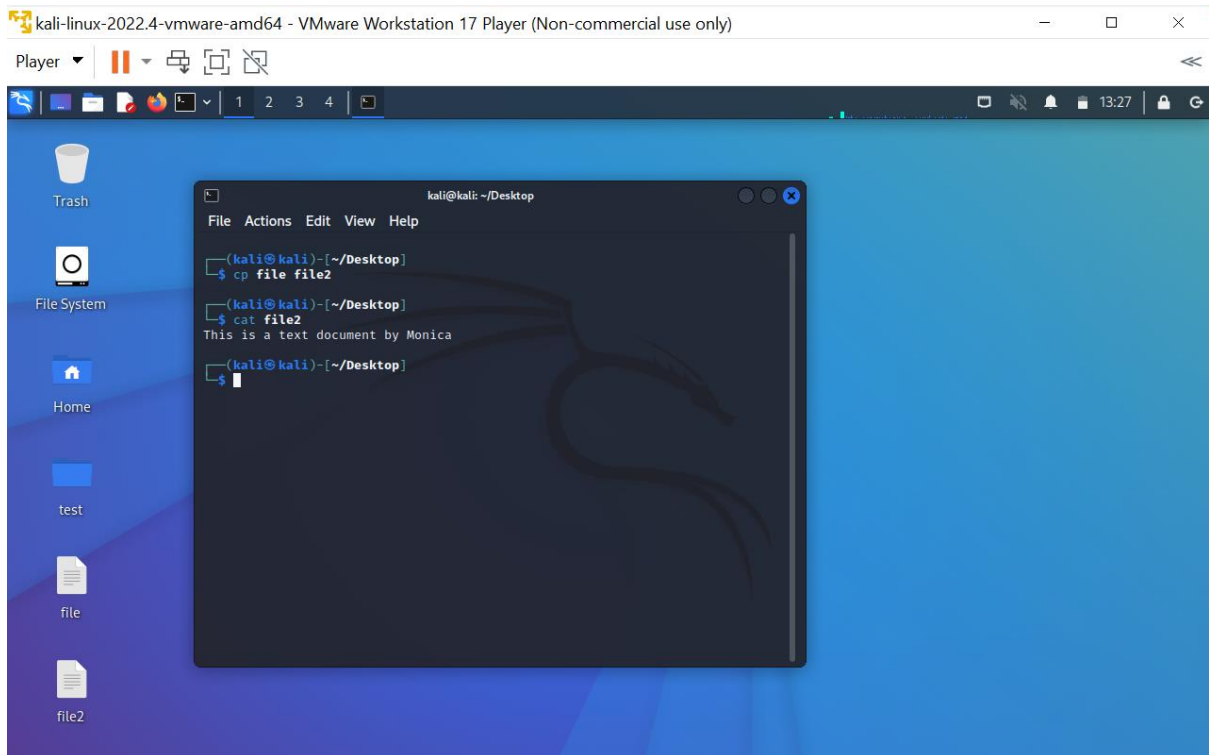
mkdir: Make directory



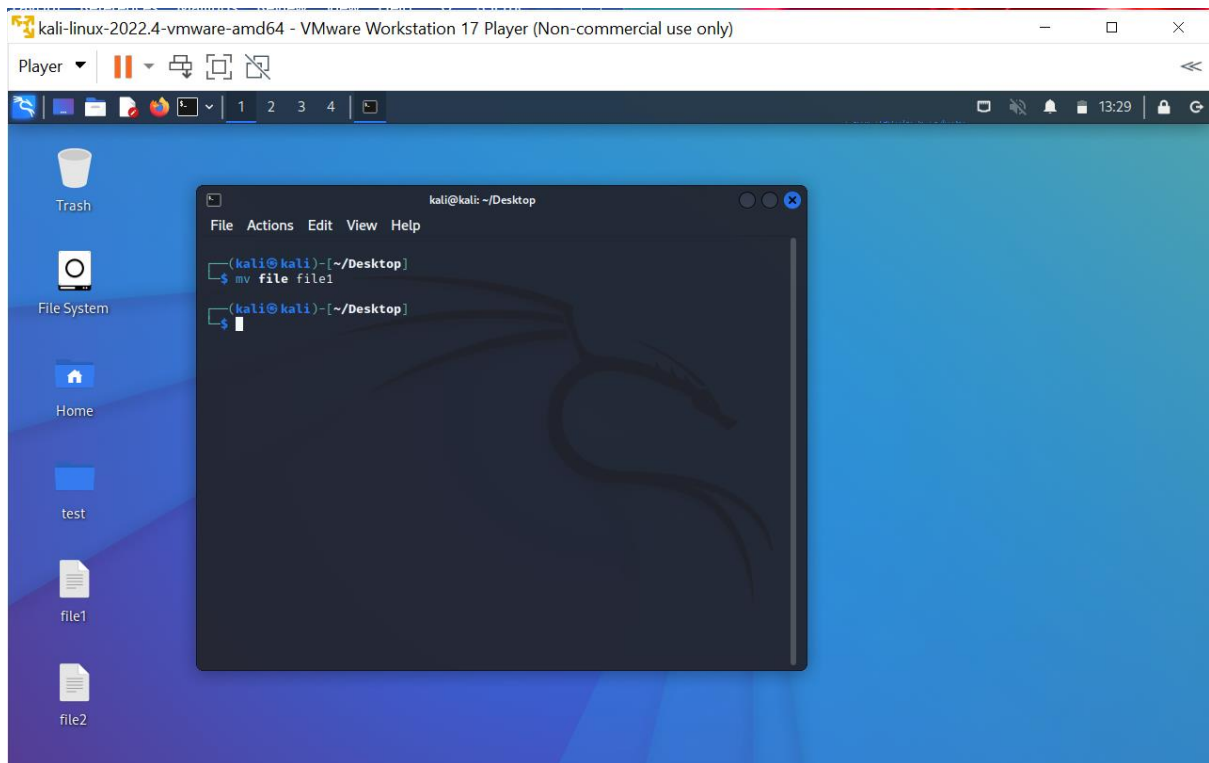
touch: Create an empty file



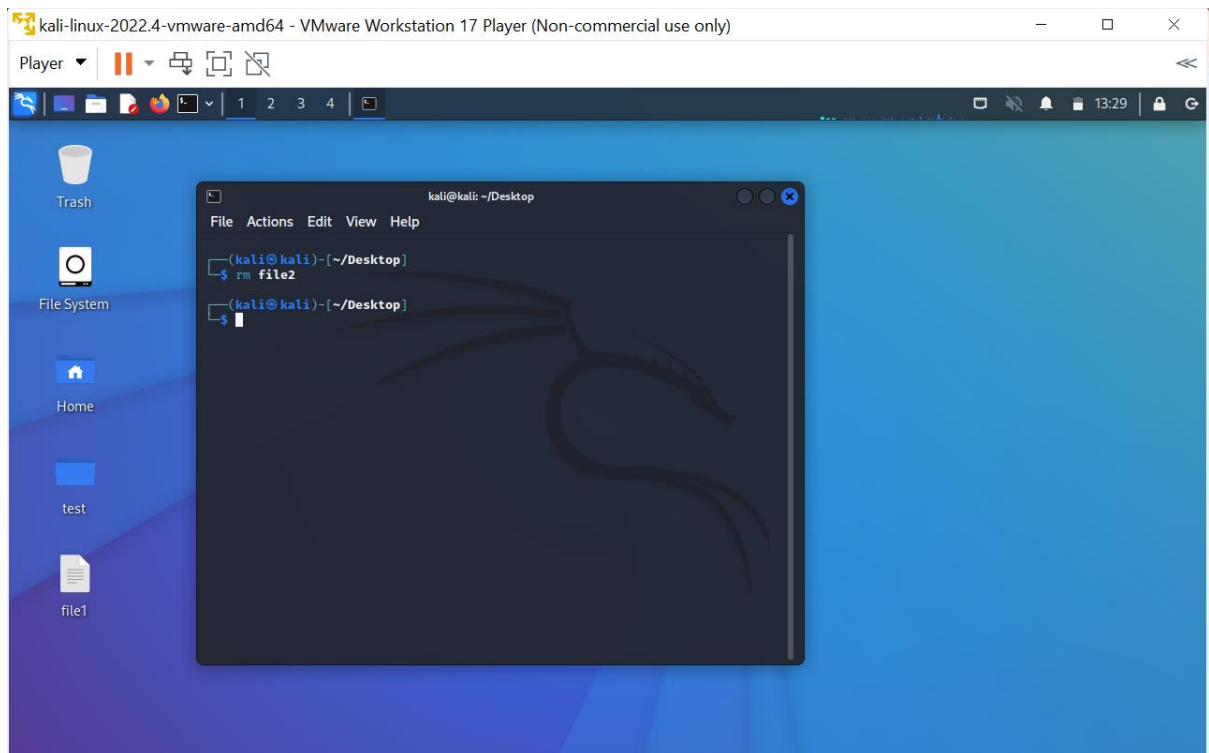
cp: Copy files and directories



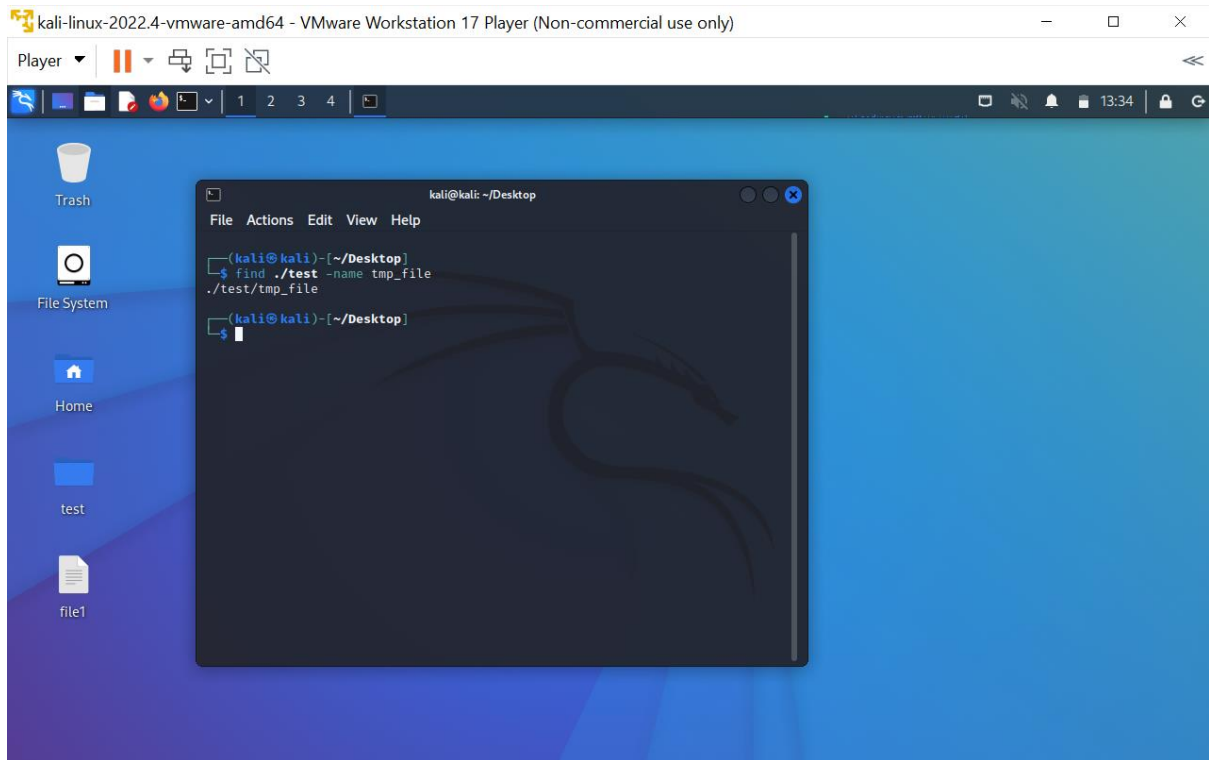
**mv:** Move or rename files and directories



**rm:** Remove files and directories

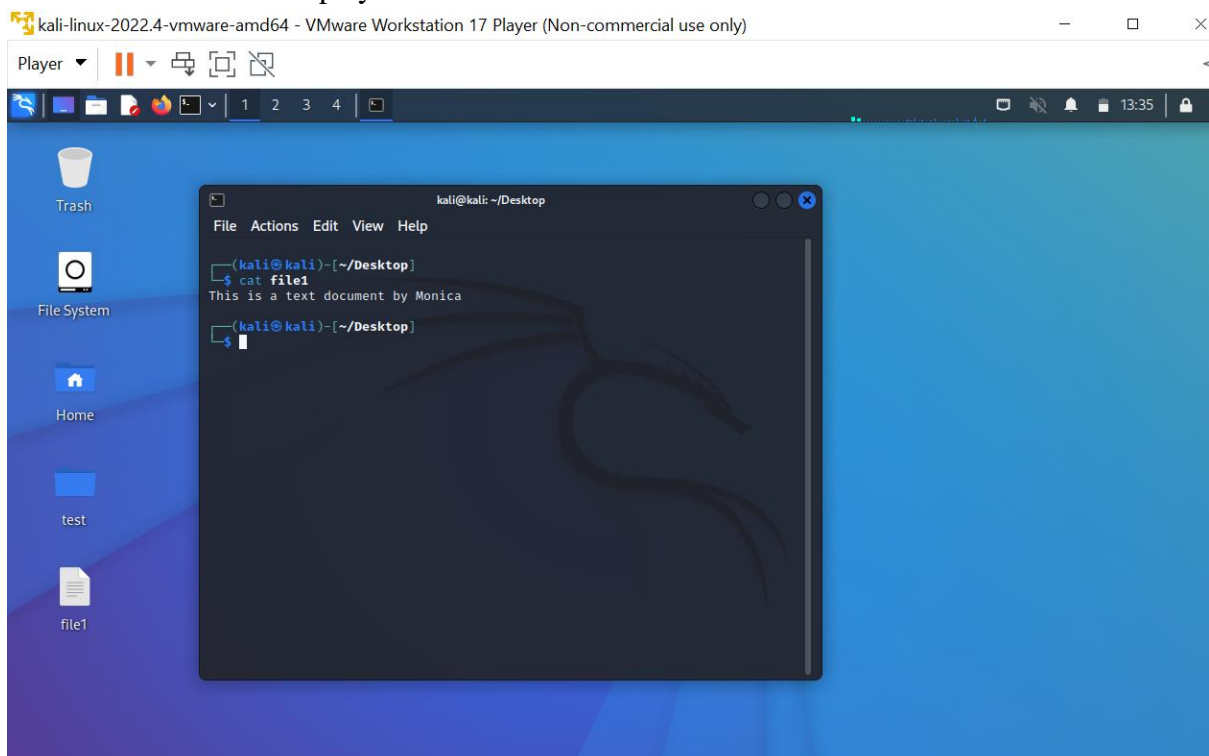


find: Search for files and directories

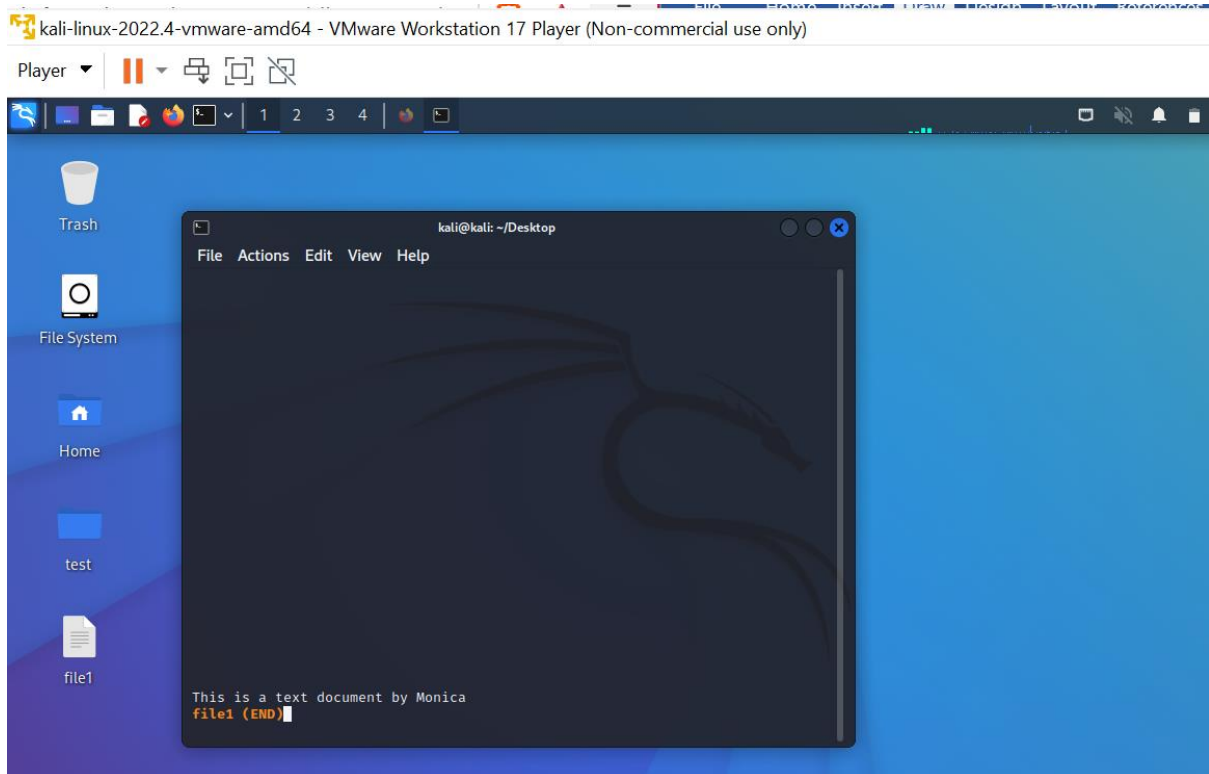
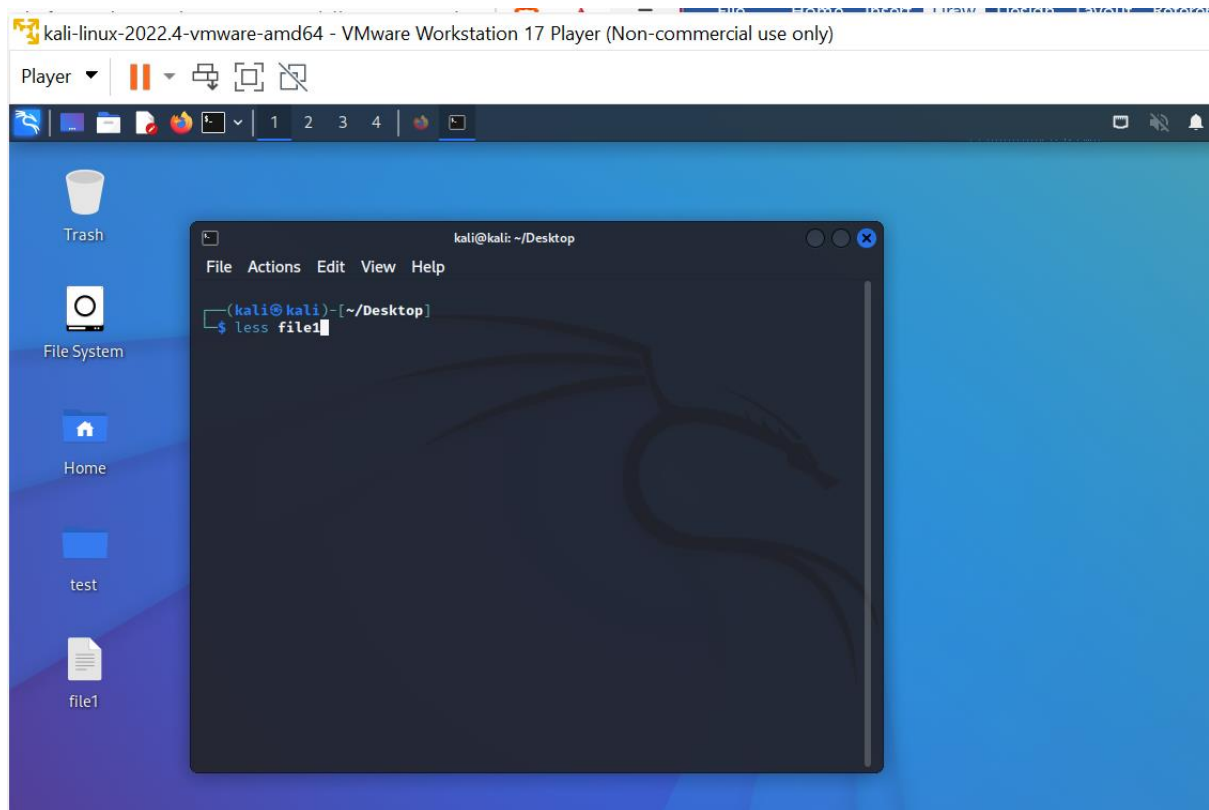


## File Viewing and Editing:

cat: Concatenate and display file content

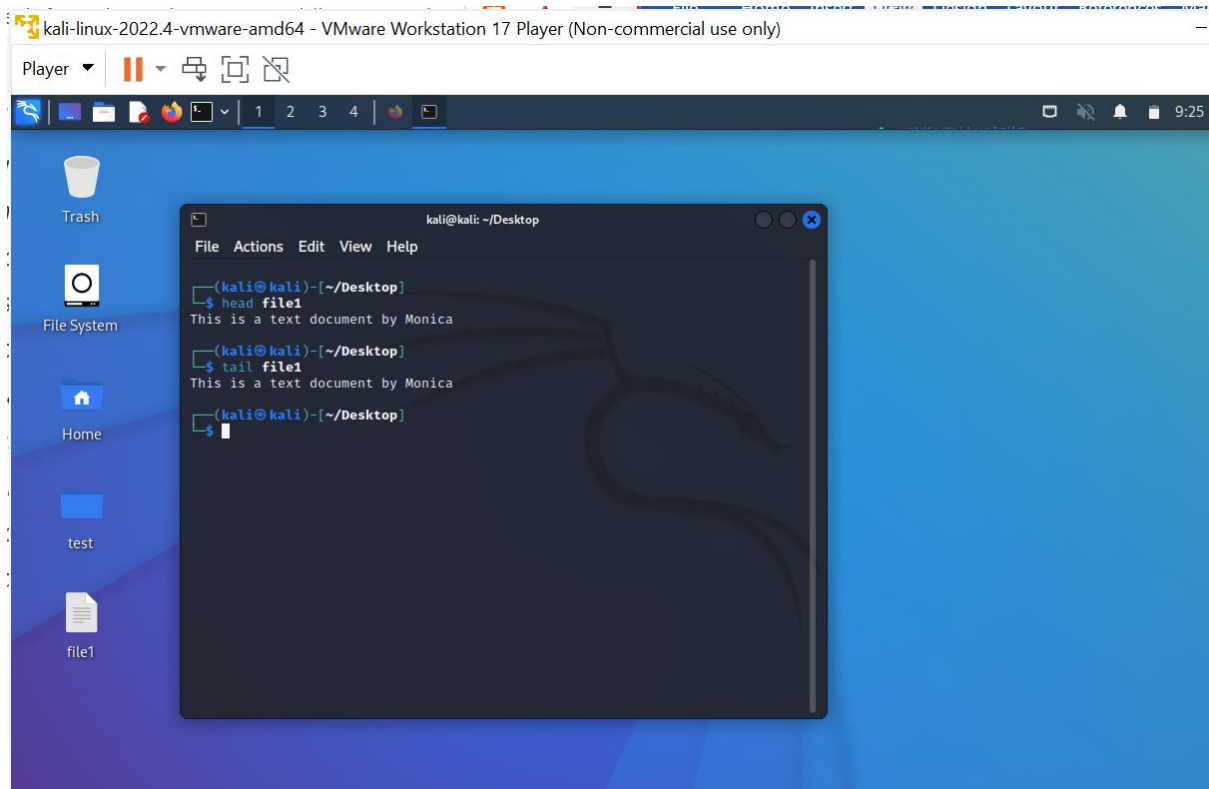


less: View file content with pagination

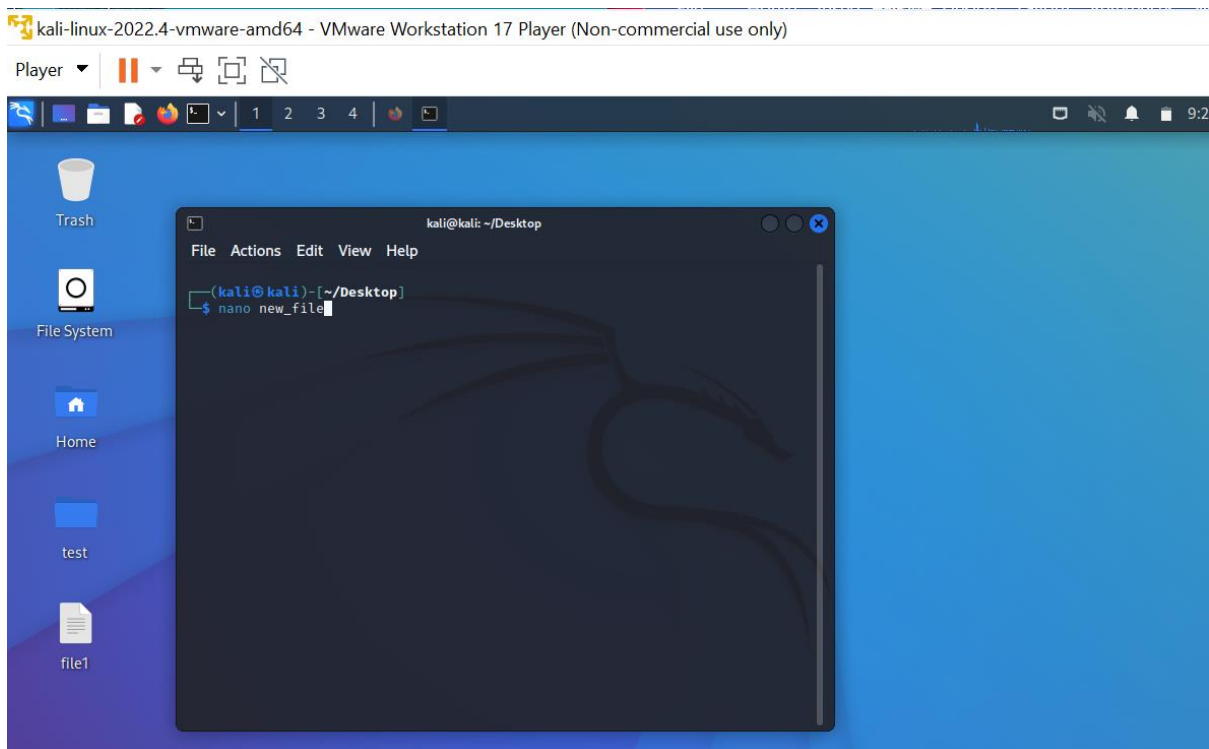


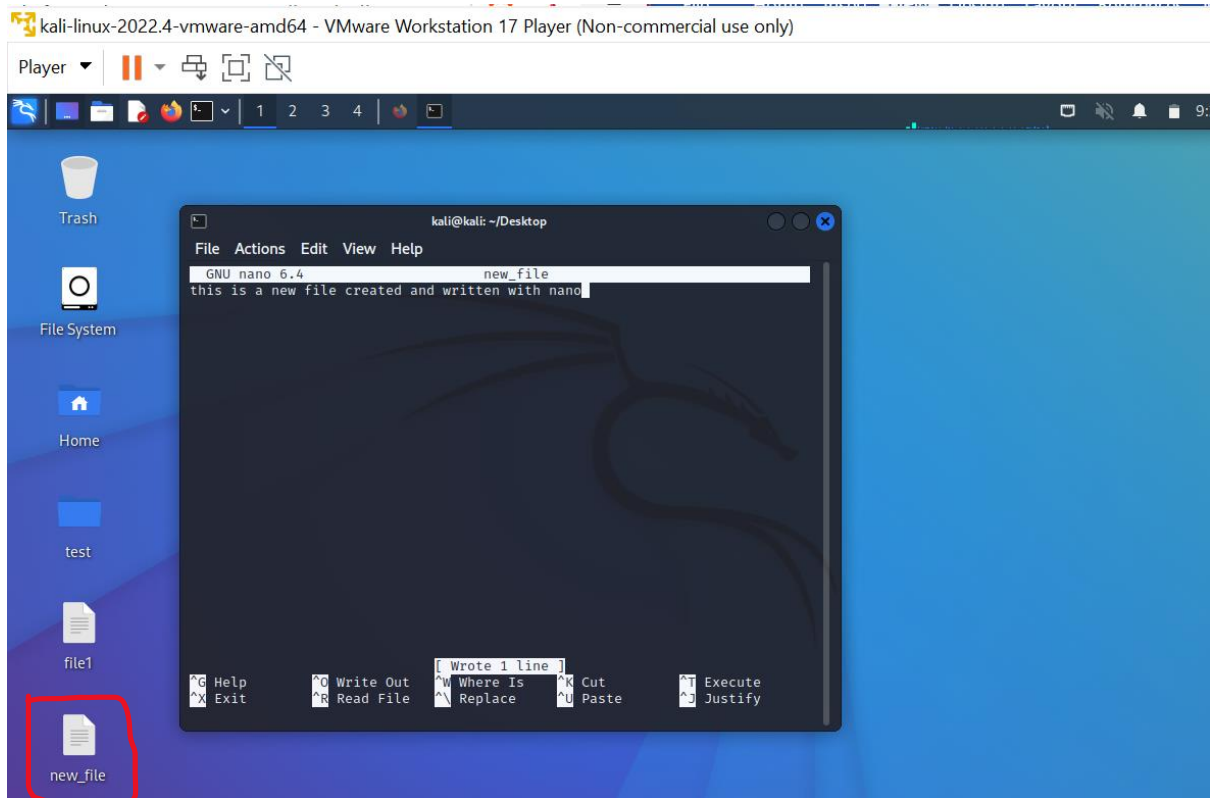
head: Display the beginning of a file

tail: Display the end of a file

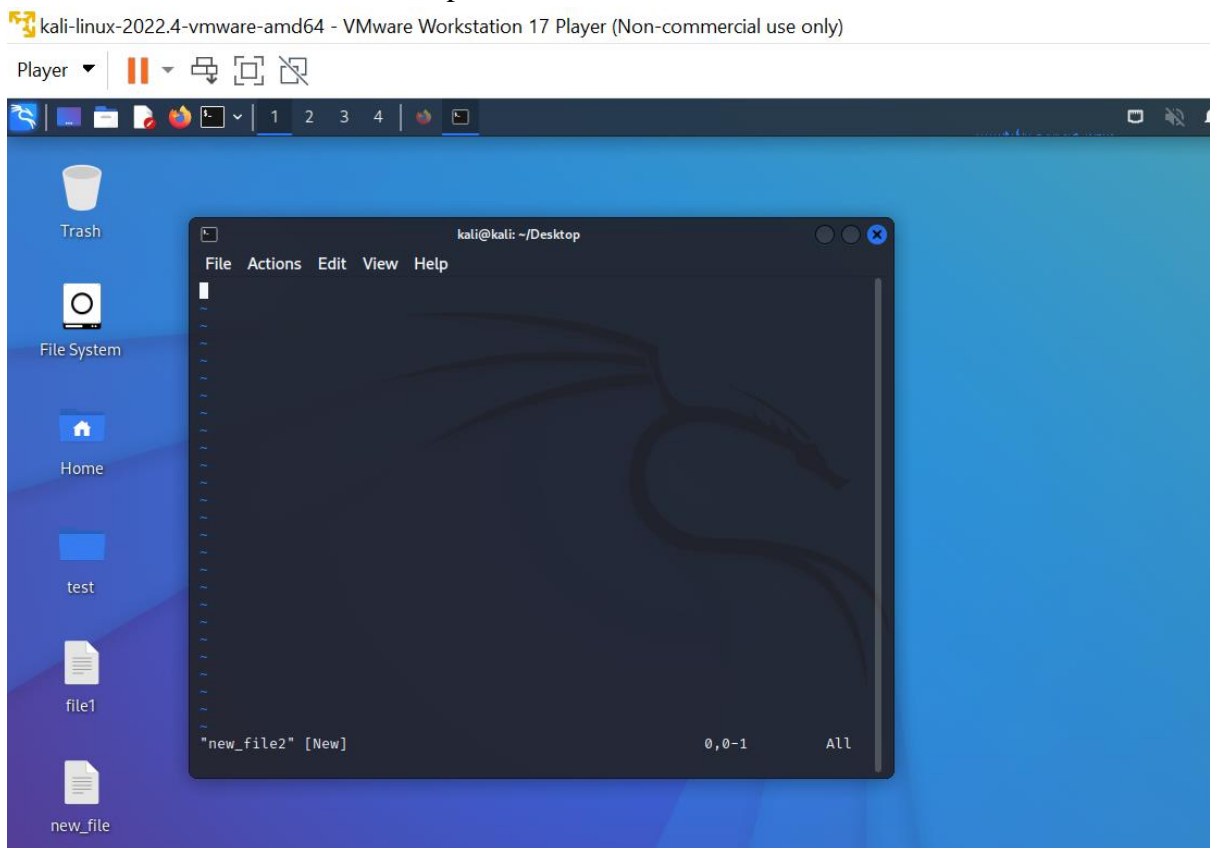


nano: Text editor for creating and editing files





## vi/vim: Powerful text editor for experienced users



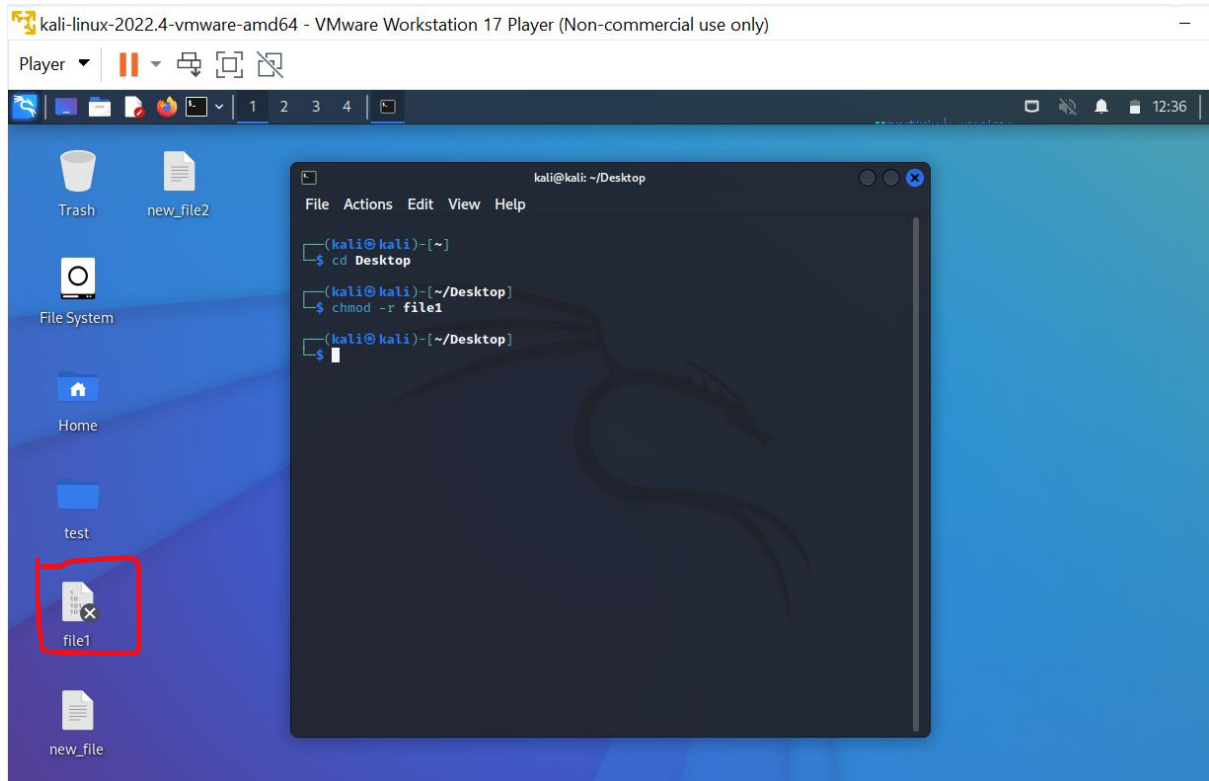




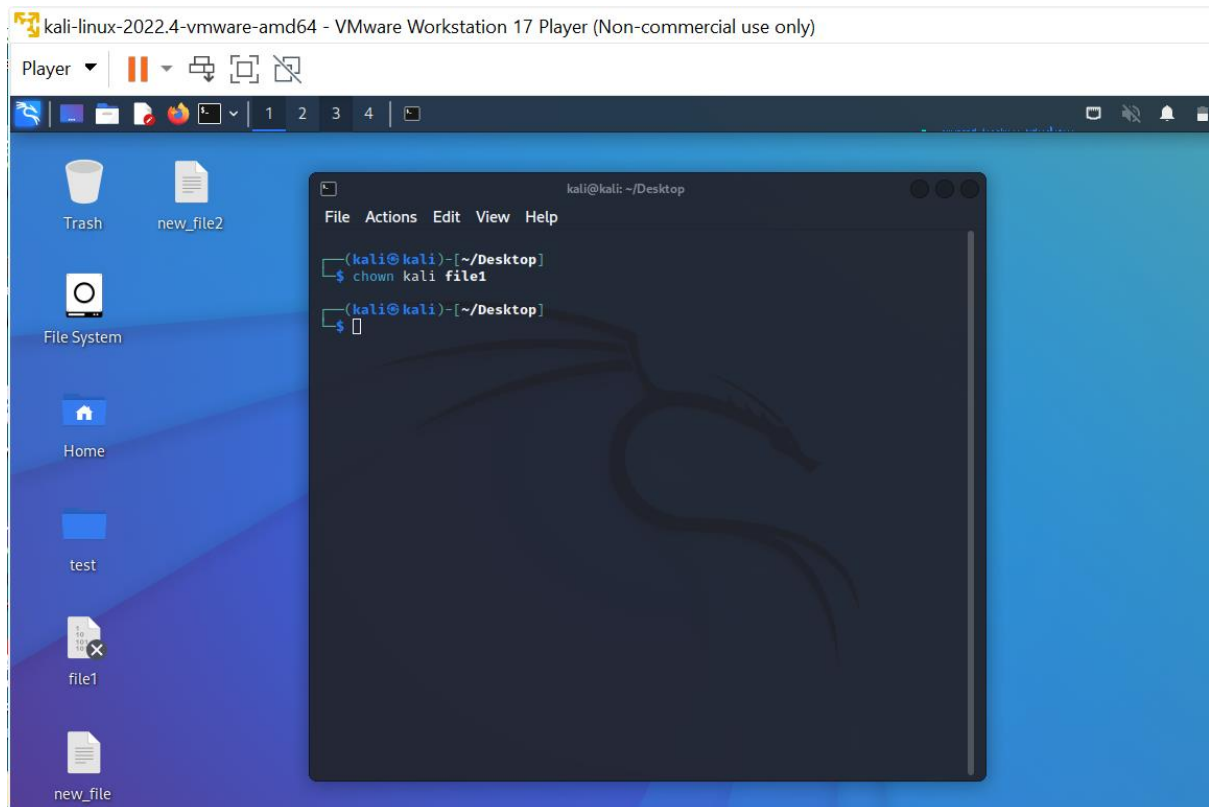


## File Permissions:

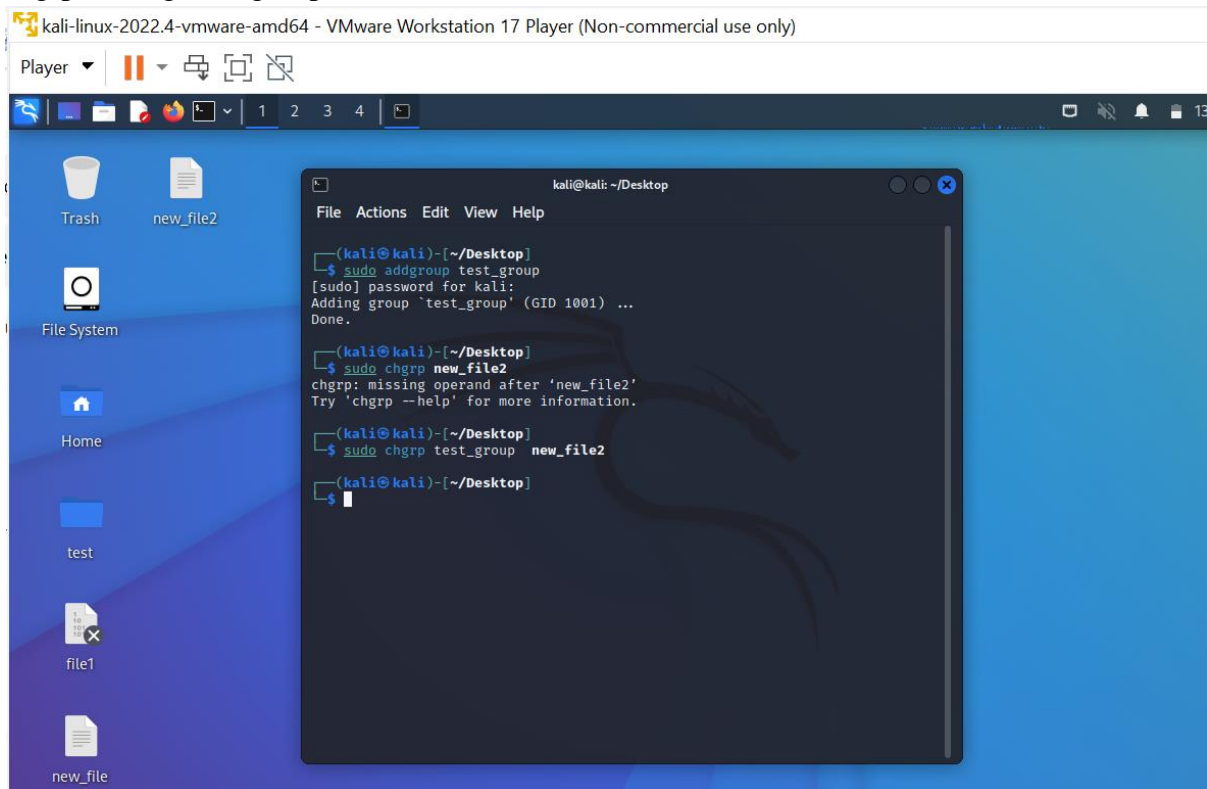
chmod: Change file permissions



chown: Change file owner

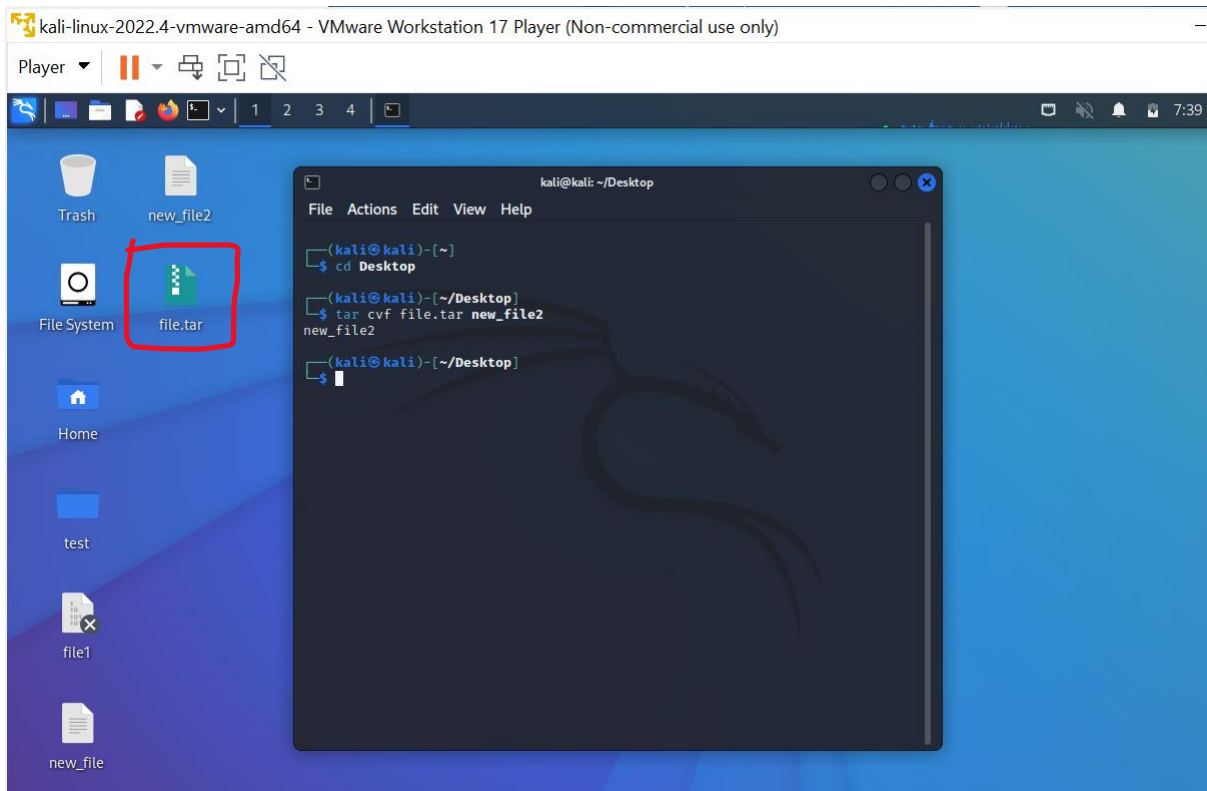


## chgrp: Change file group

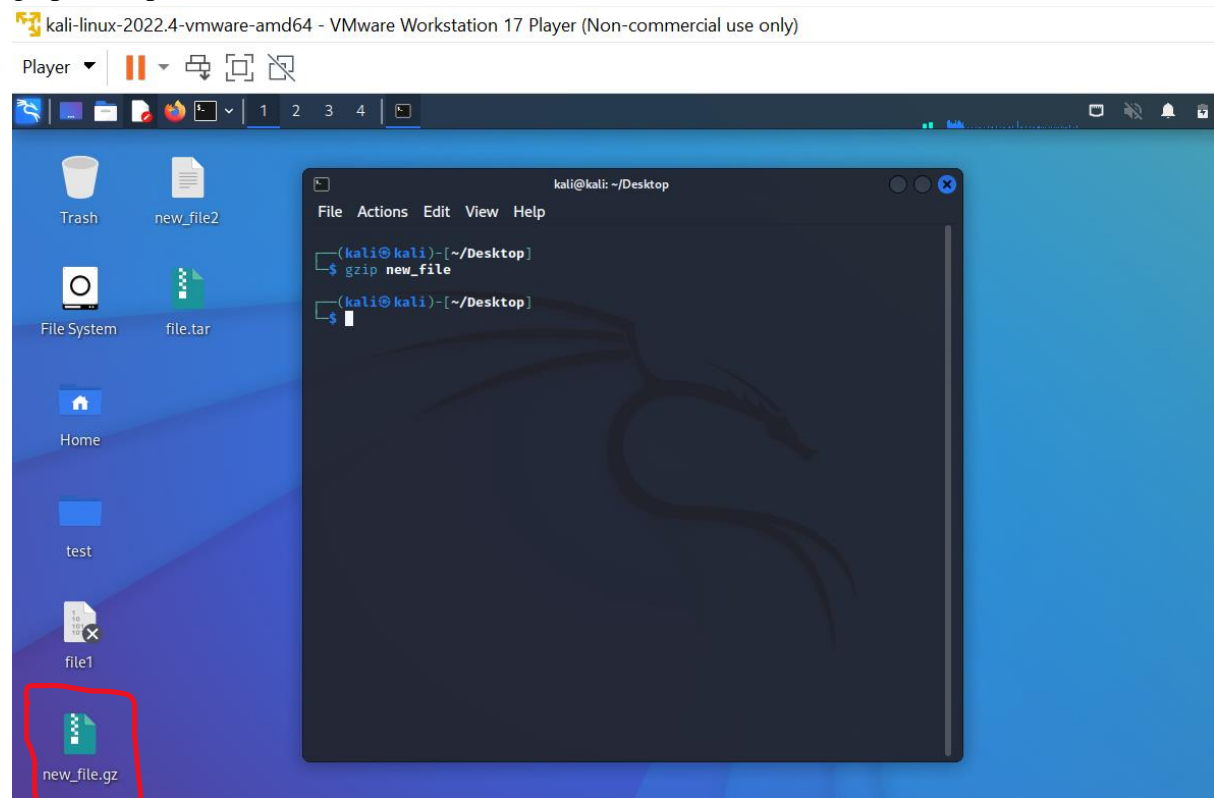


## File Compression and Archiving:

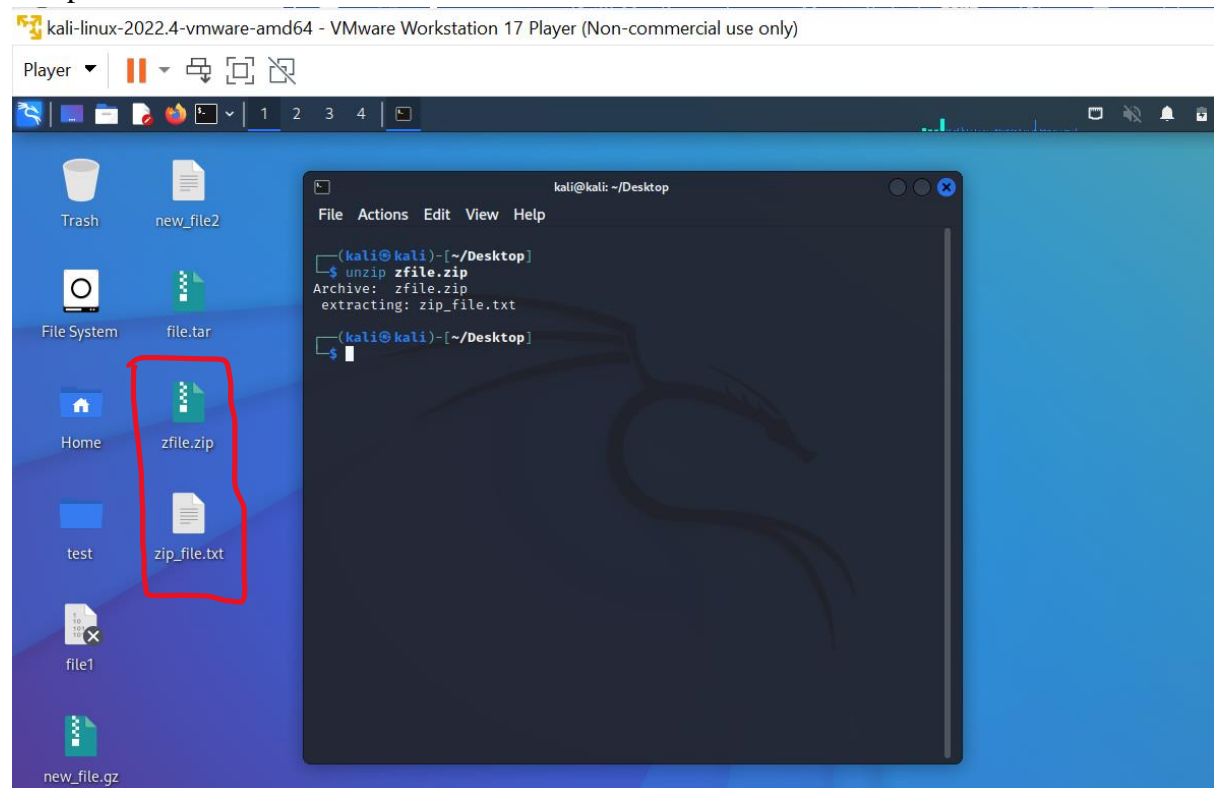
### tar: Archive files



## gzip: Compress files

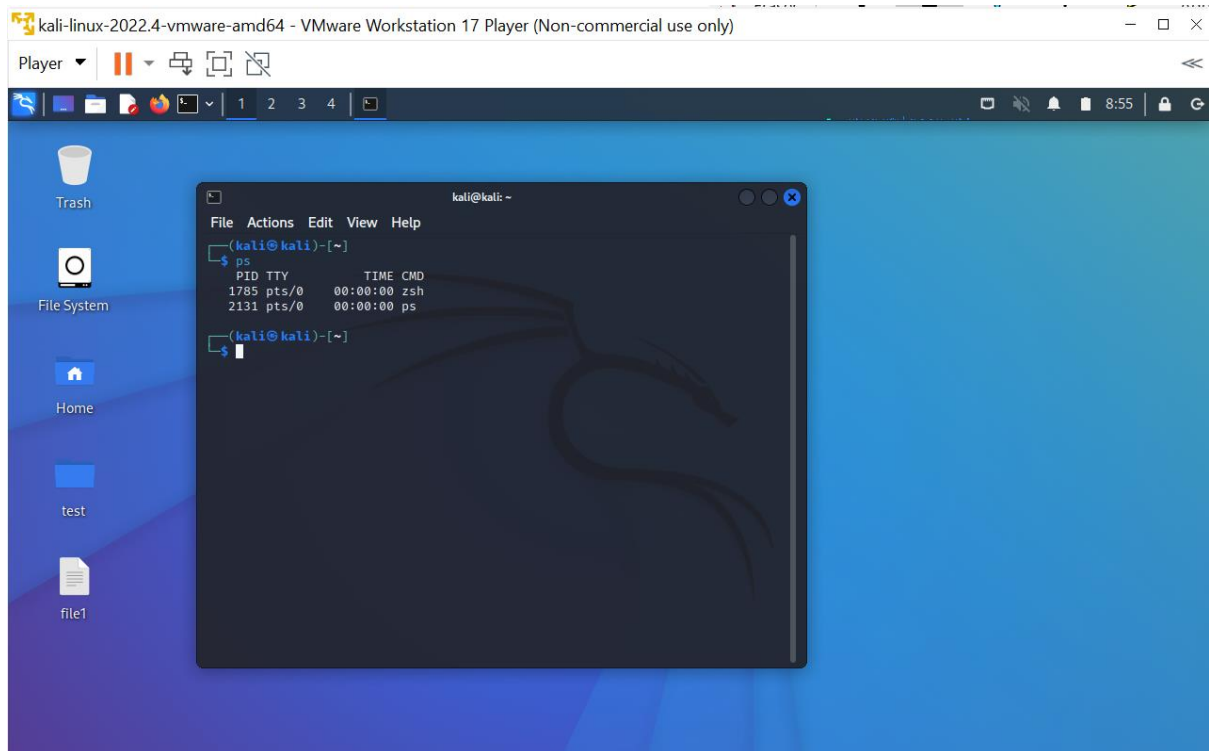


## unzip: Extract files from a ZIP archive

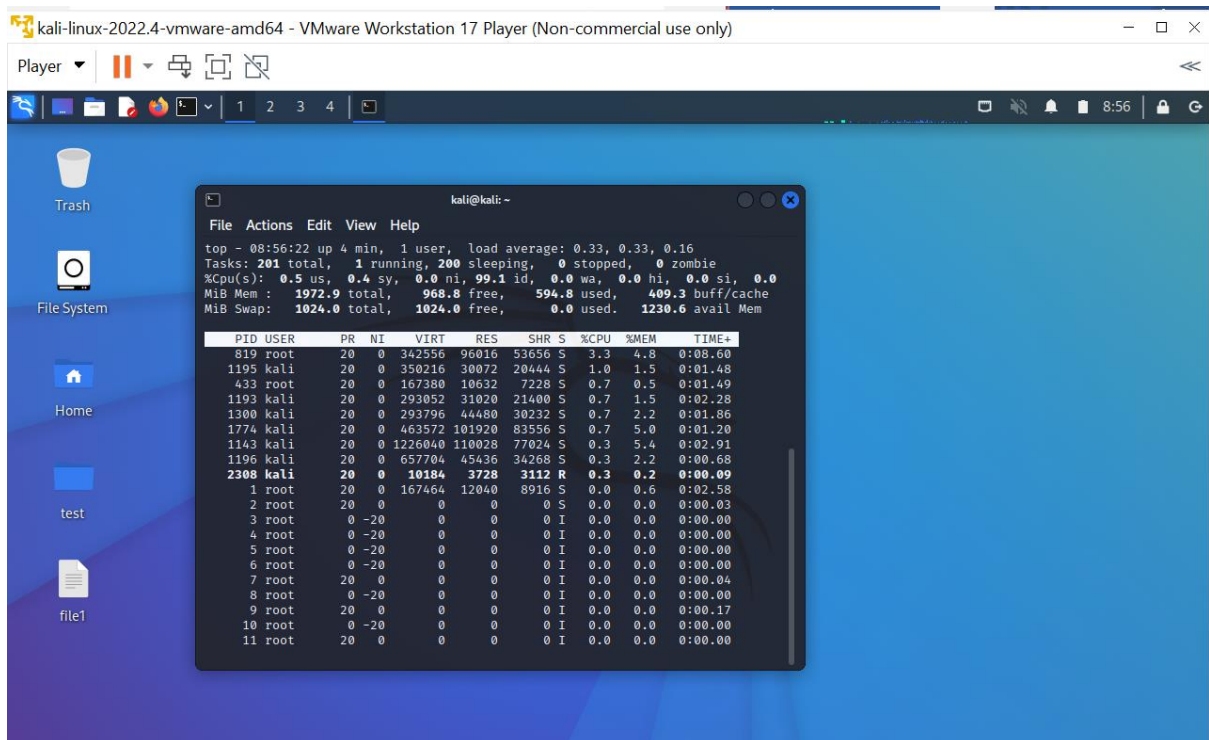


## Process Management:

ps: List running processes



top: Display real-time system information and processes



## kill: Terminate processes

kali-linux-2022.4-vmware-amd64 - VMware Workstation 17 Player (Non-commercial use only)

Player

owasp zap - Google Search

Kali Linux Kali Tools

Google

actively maintained

Zed Attack Proxy

OWASP ZAP

open source. A

Getting Started

https://www.zaproxy.org

Download

The world's

dedicated in

Weekly: Upd

Stable: The

File Actions Edit View Help

kill 5269

OWASP ZAP

OWASP ZAP is an open-source web application security scanner. It is intended to be used by both those new to application security as well as professional penetration testers. It is one of the most active Open Web Application Security Project projects and has been given Flagship status. [Wikipedia](#)

Programming language: Java

Available in: 25 languages

License: Apache Licence

Operating system: Linux, Windows, OS X

People also ask

What does OWASP ZAP do?

Does OWASP ZAP require Java 11?

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Player

File System

Home

test

file1

File Actions Edit View Help

top - 09:08:42 up 16 min, 1 user, load average: 0.08, 0.39, 0.32

Tasks: 206 total, 1 running, 202 sleeping, 3 stopped, 0 zombie

%Cpu(s): 0.8 us, 0.3 sy, 0.0 ni, 98.9 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st

kill 5269

File System

Home

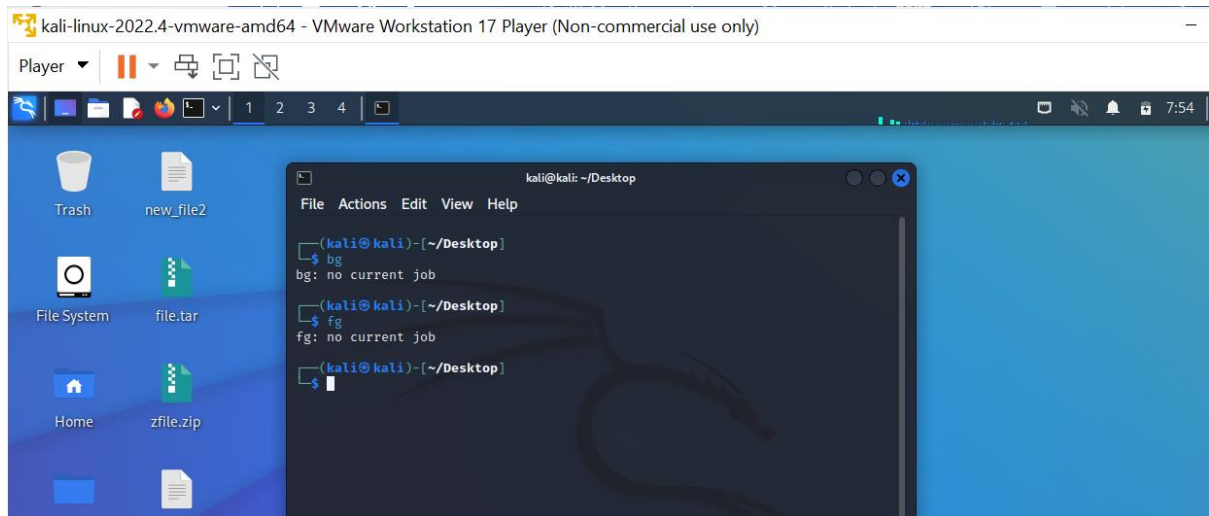
test

file1



bg: Run processes in the background

fg: Bring background processes to the foreground

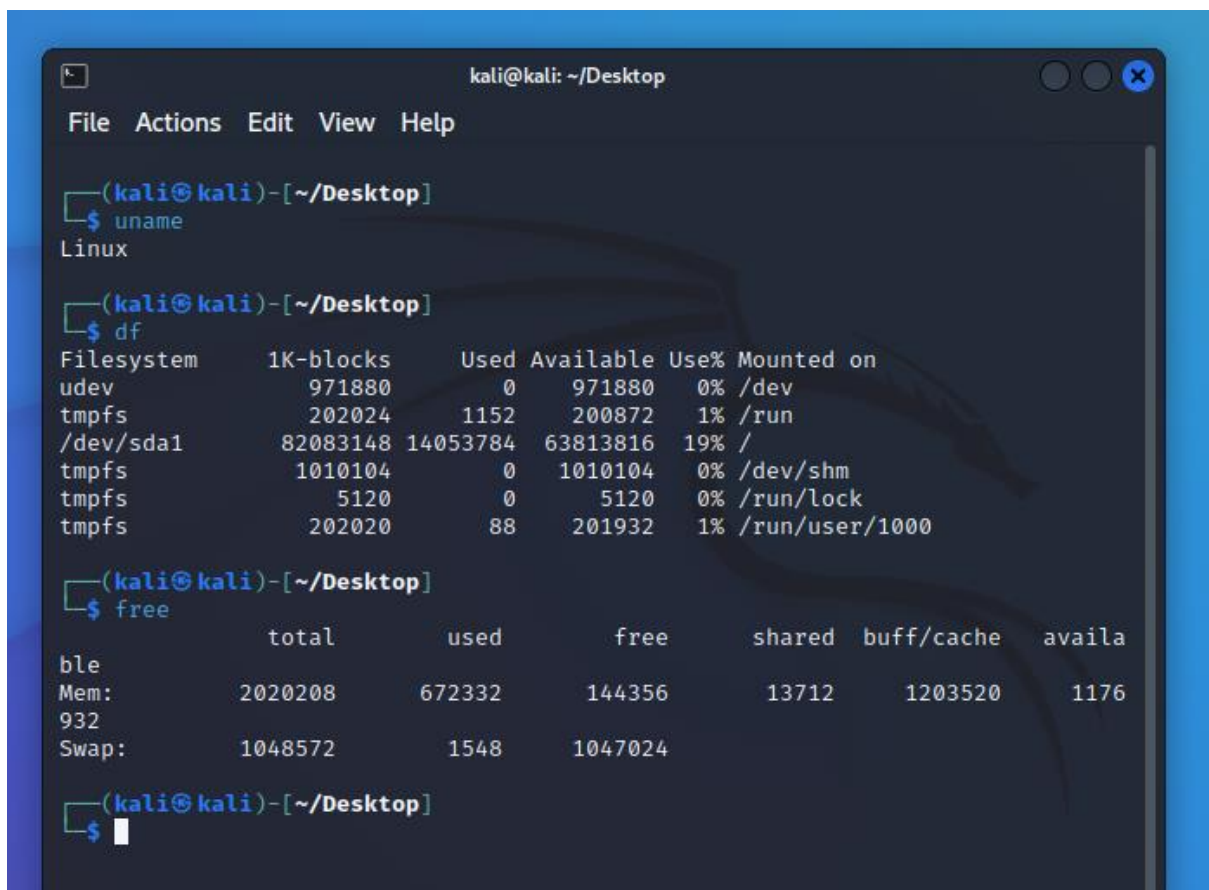


## System Information:

uname: Print system information

df: Display disk space usage

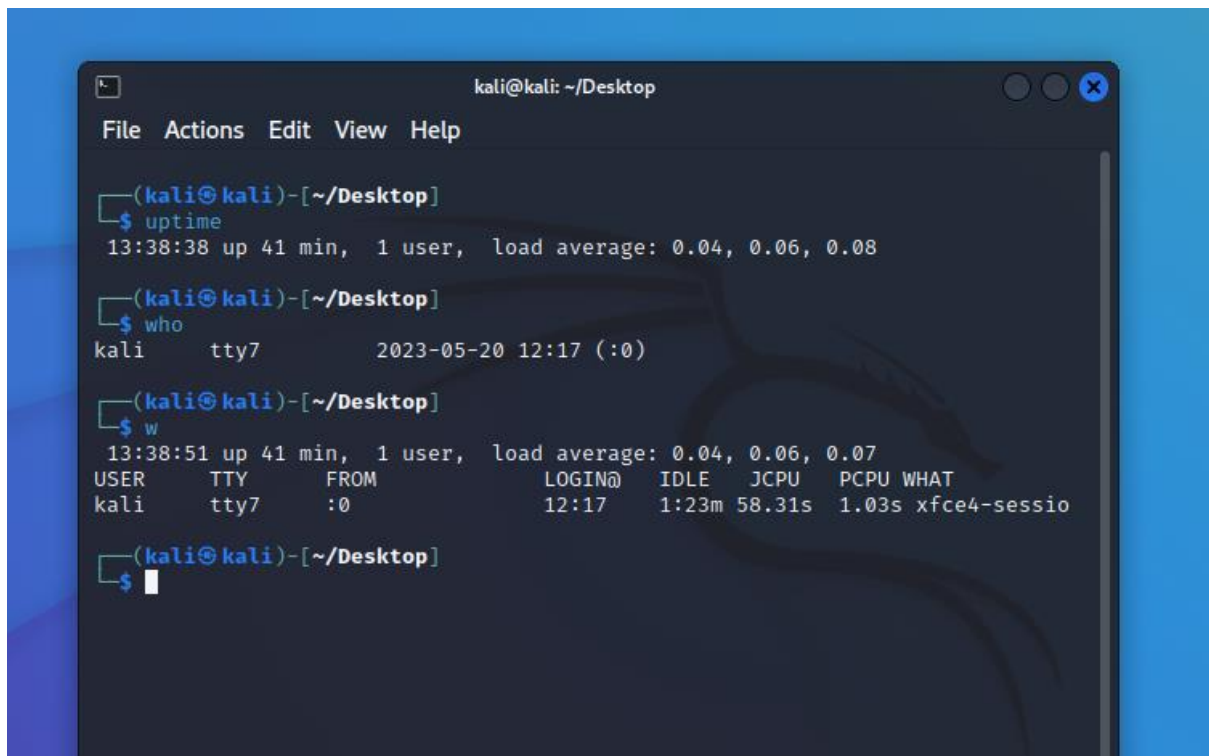
free: Display memory usage



uptime: Show system uptime

who: Display logged-in users

w: Display logged-in users and their activities



```
kali@kali: ~/Desktop
File Actions Edit View Help

(kali@kali)-[~/Desktop]
$ uptime
13:38:38 up 41 min,  1 user,  load average: 0.04, 0.06, 0.08

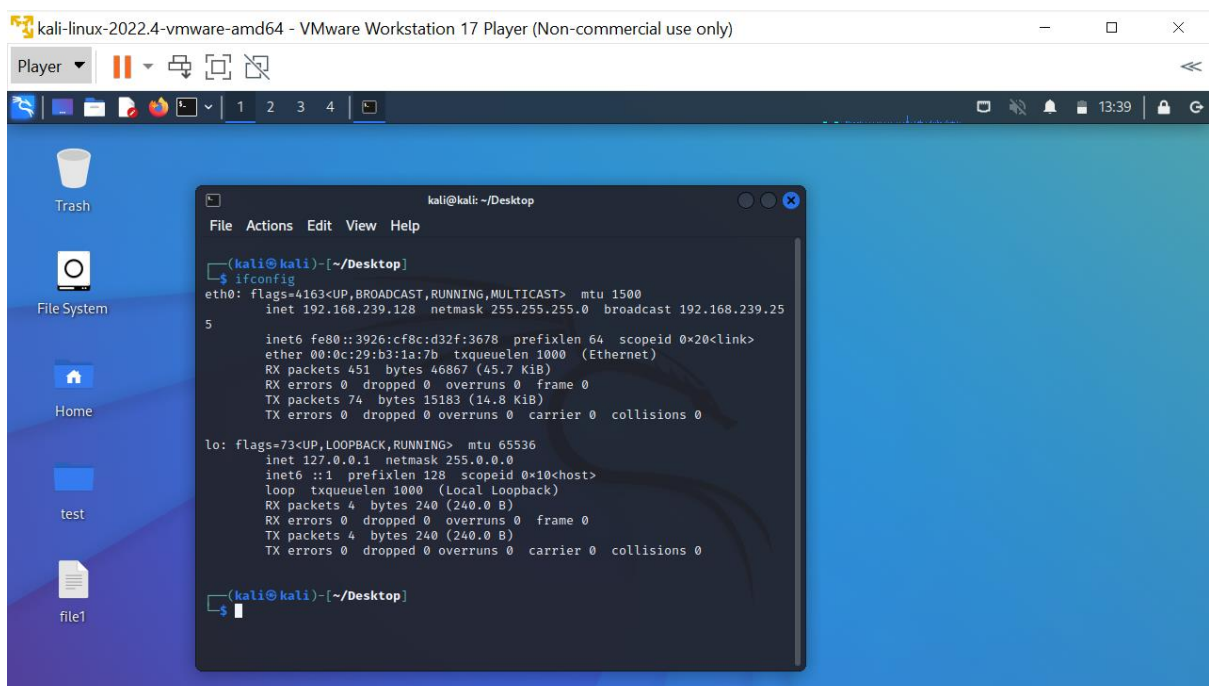
(kali@kali)-[~/Desktop]
$ who
kali    tty7      2023-05-20 12:17 (:0)

(kali@kali)-[~/Desktop]
$ w
13:38:51 up 41 min,  1 user,  load average: 0.04, 0.06, 0.07
USER    TTY      FROM          LOGIN@   IDLE   JCPU   PCPU   WHAT
kali    tty7      :0             12:17    1:23m  58.31s  1.03s  xfce4-sessio

(kali@kali)-[~/Desktop]
$
```

## Networking:

ifconfig: Configure network interfaces



```
kali-linux-2022.4-vmware-amd64 - VMware Workstation 17 Player (Non-commercial use only)

Player
1 2 3 4

Trash
File System
Home
test
file1

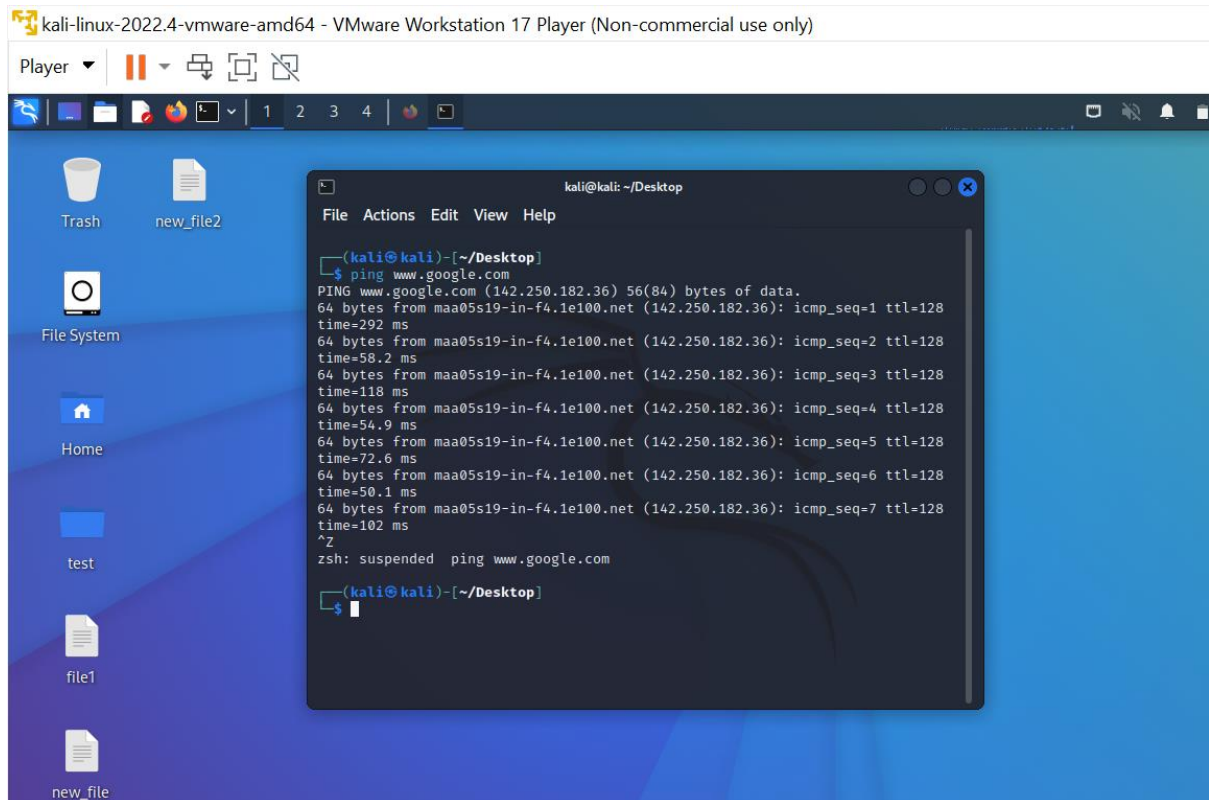
(kali@kali)-[~/Desktop]
$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
    inet 192.168.239.128  netmask 255.255.255.0  broadcast 192.168.239.255
    ether 00:0c:29:b3:1a:7b  txqueuelen 1000  (Ethernet)
    RX packets 451  bytes 46867 (45.7 KiB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 74  bytes 15183 (14.8 KiB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
    inet 127.0.0.1  netmask 255.0.0.0
    inet6 ::1  prefixlen 128  scopeid 0<host>
    loop txqueuelen 1000  (Local Loopback)
    RX packets 4  bytes 240 (240.0 B)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 4  bytes 240 (240.0 B)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

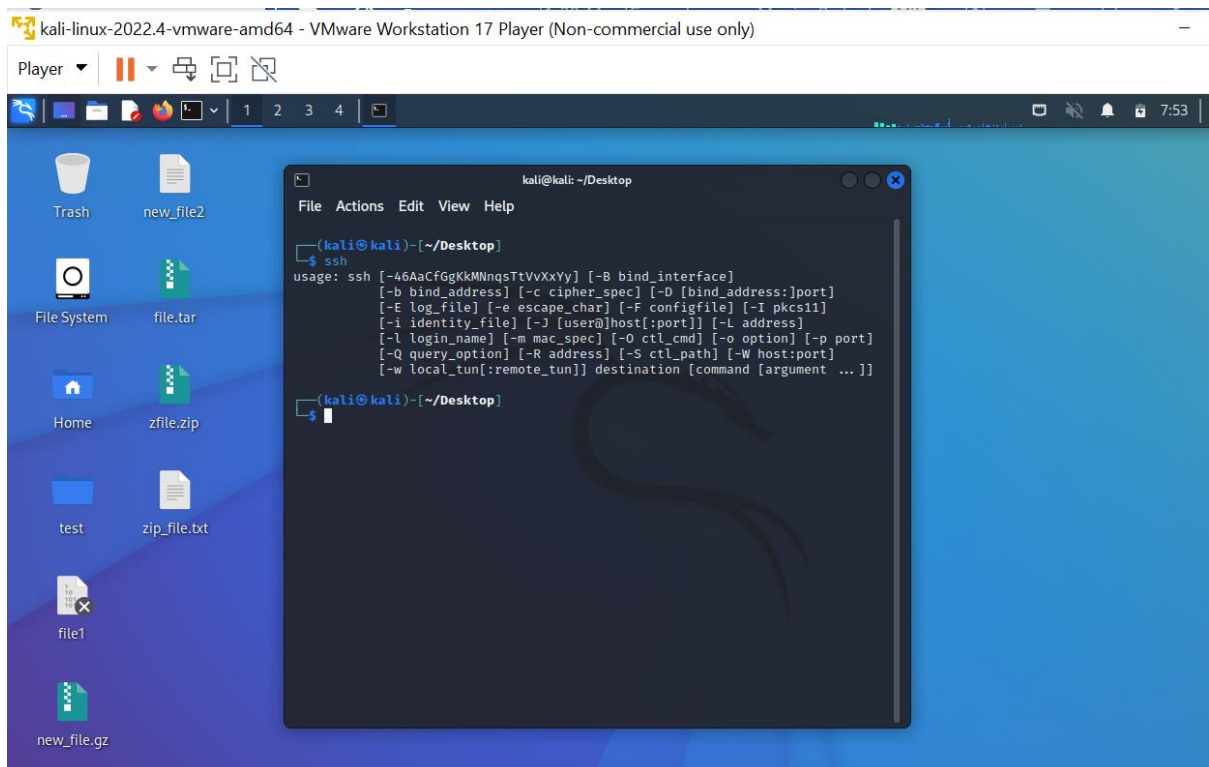
(kali@kali)-[~/Desktop]
$
```



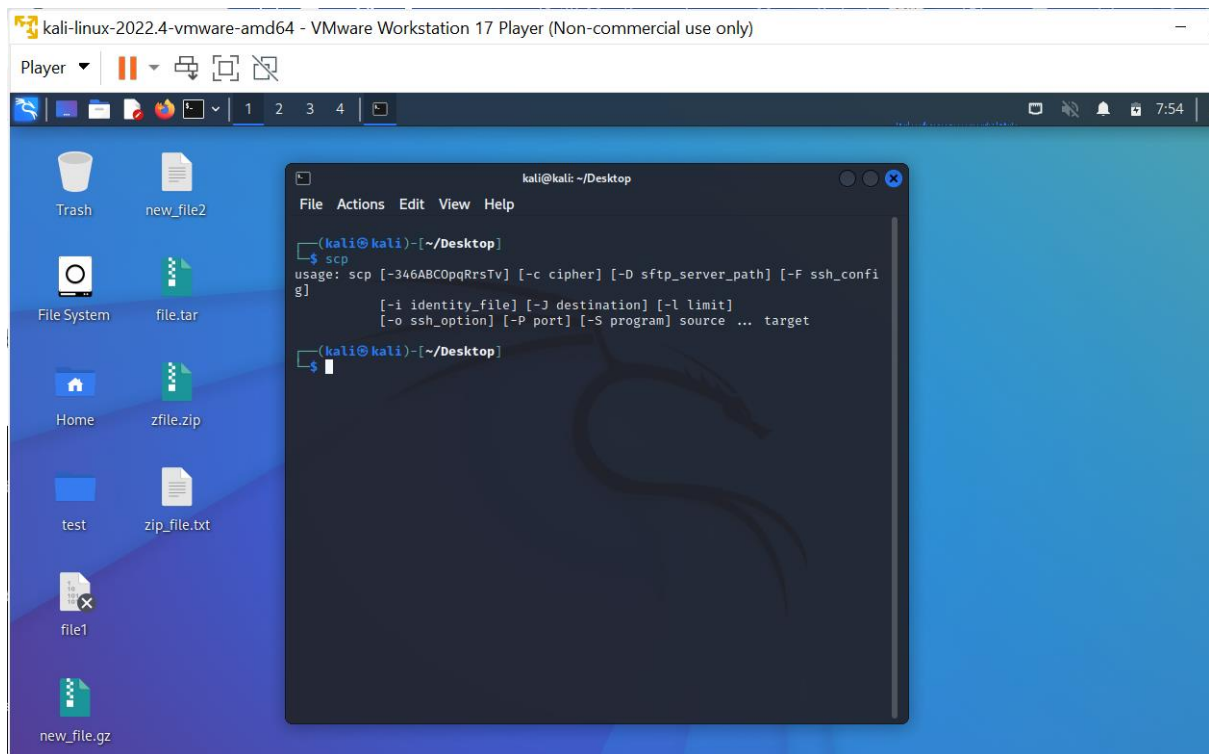
ping: Send ICMP echo requests to a network host



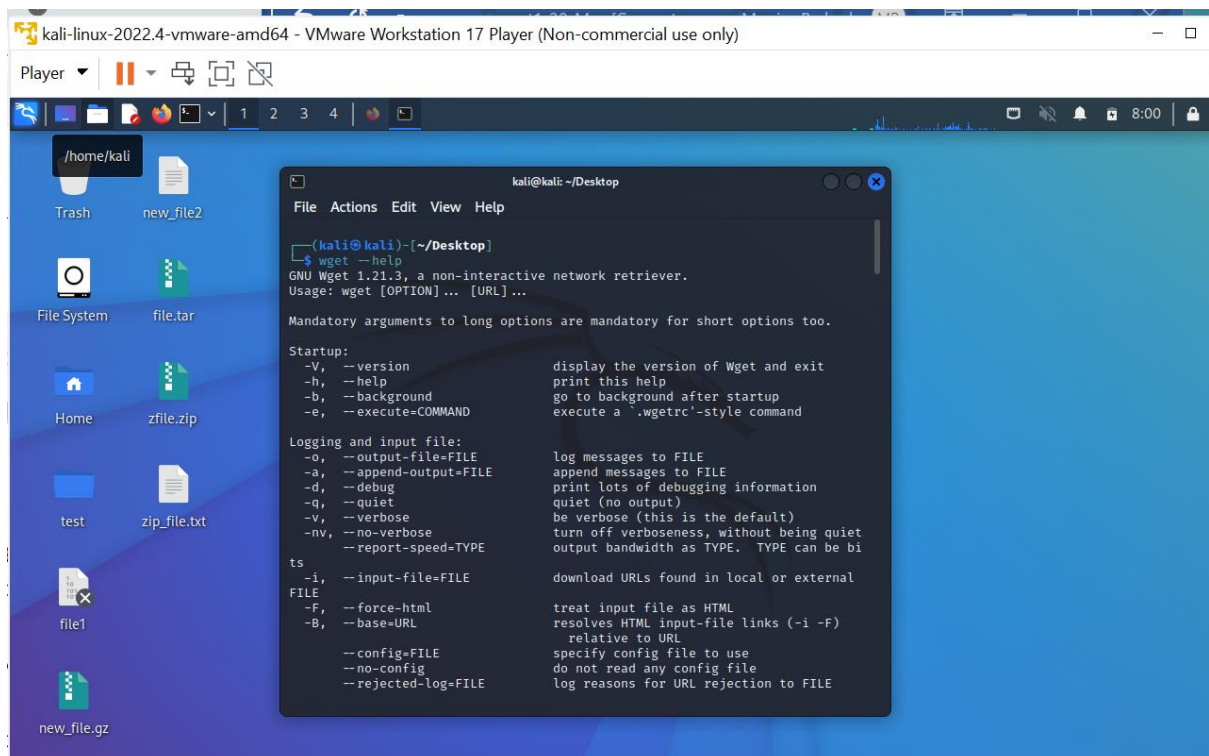
ssh: Securely connect to a remote system



scp: Securely copy files between systems

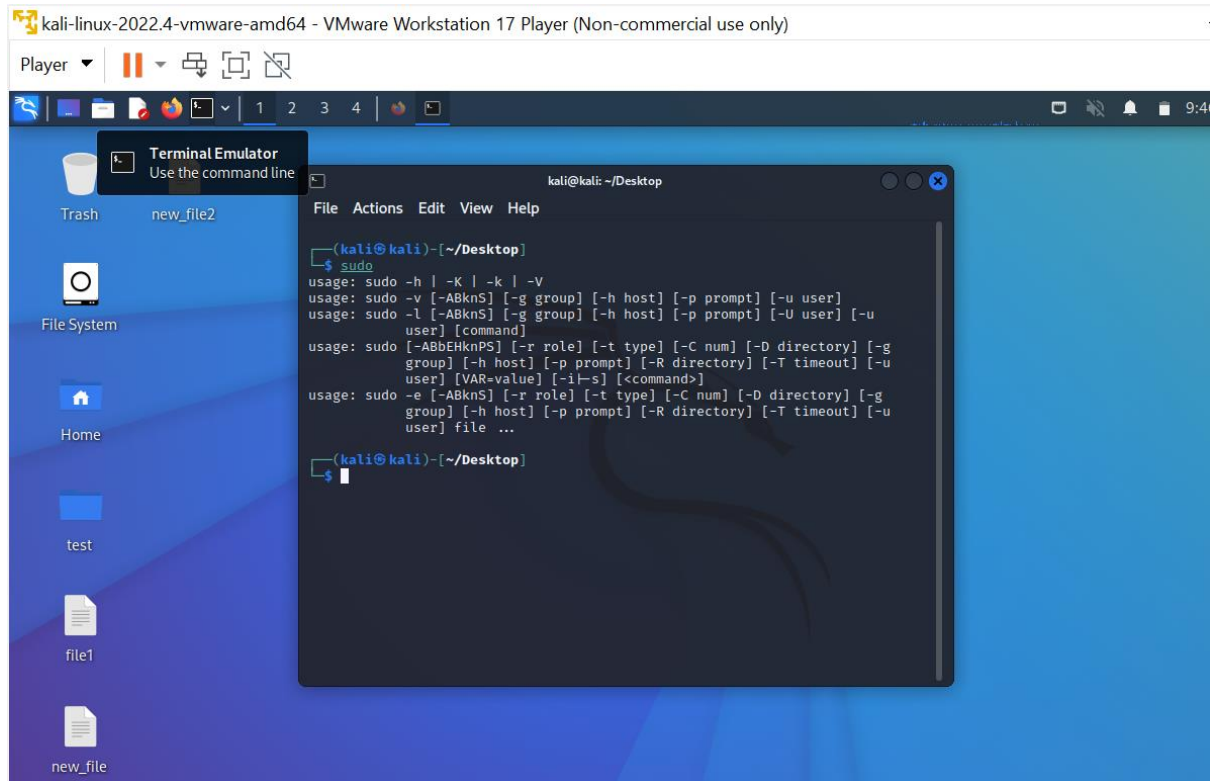


wget: Download files from the web

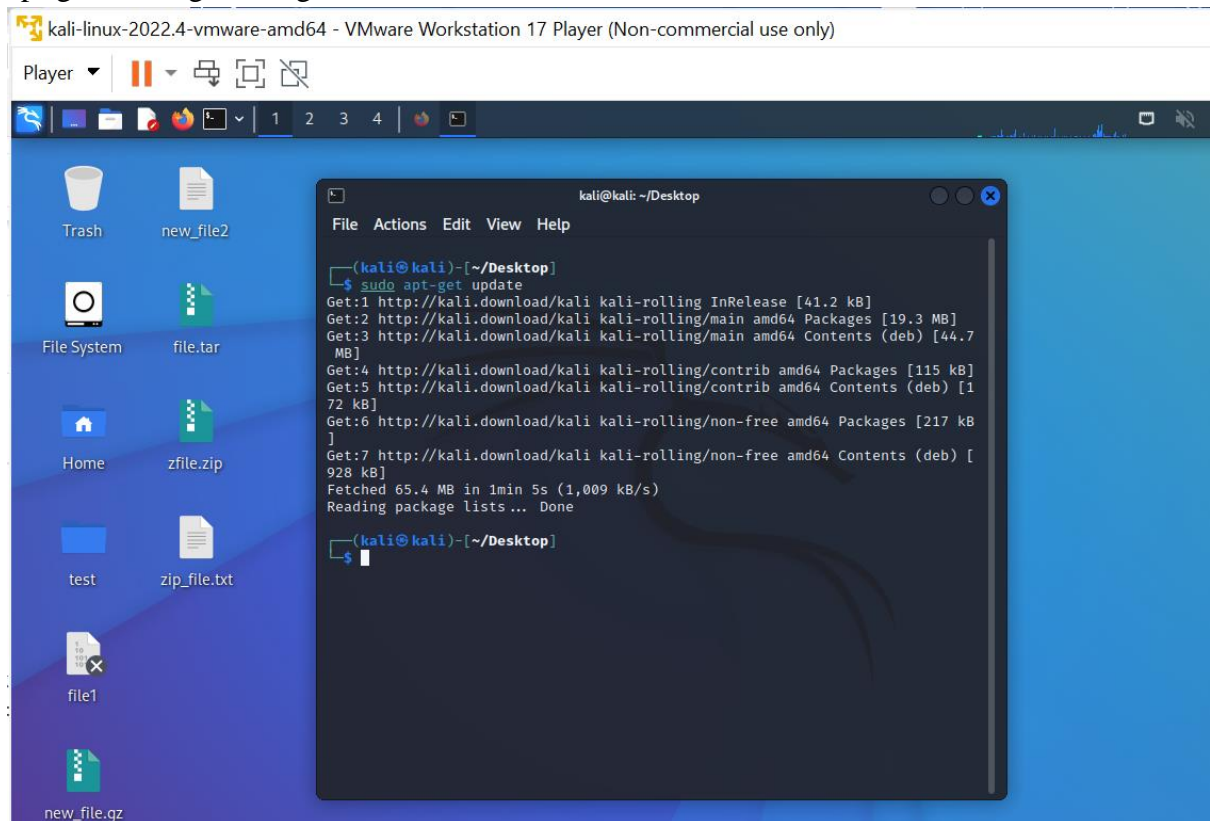


## System Administration:

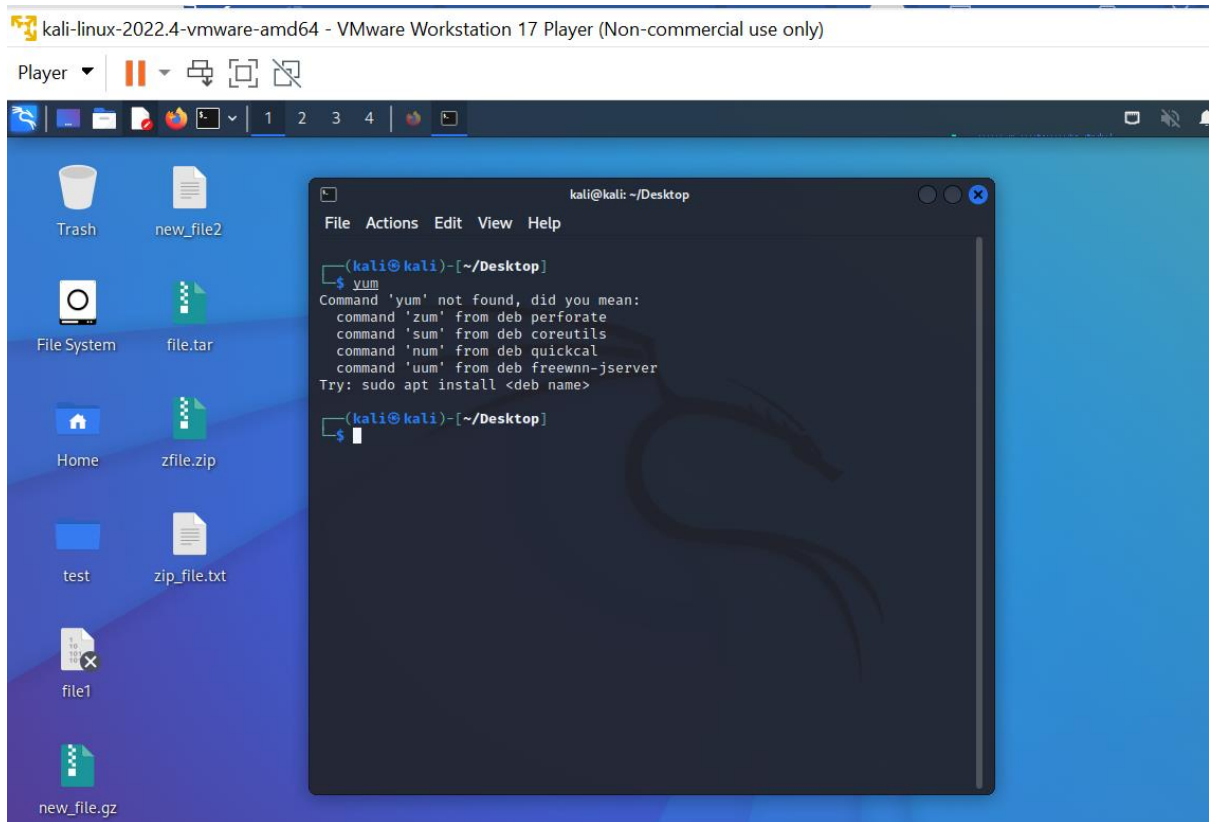
sudo: Execute commands with superuser privileges



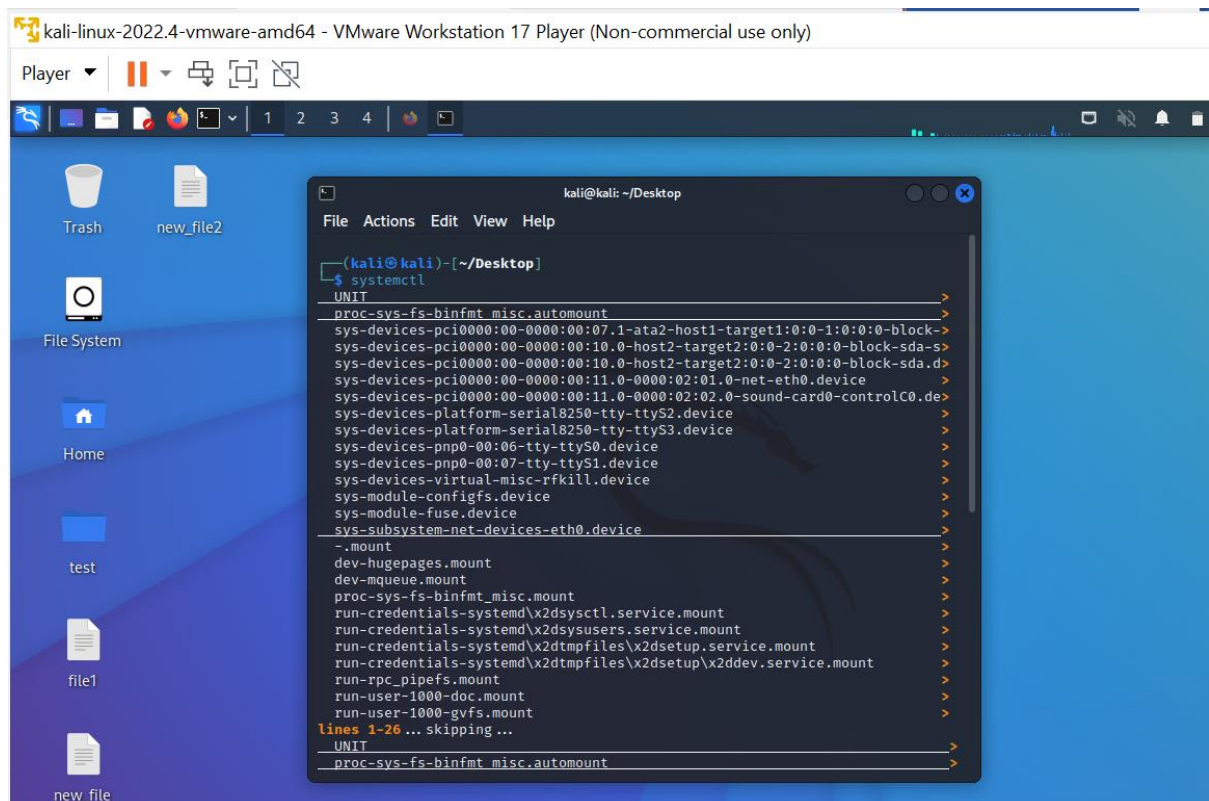
apt-get: Package management for Debian-based distributions



## yum: Package management for Red Hat-based distributions

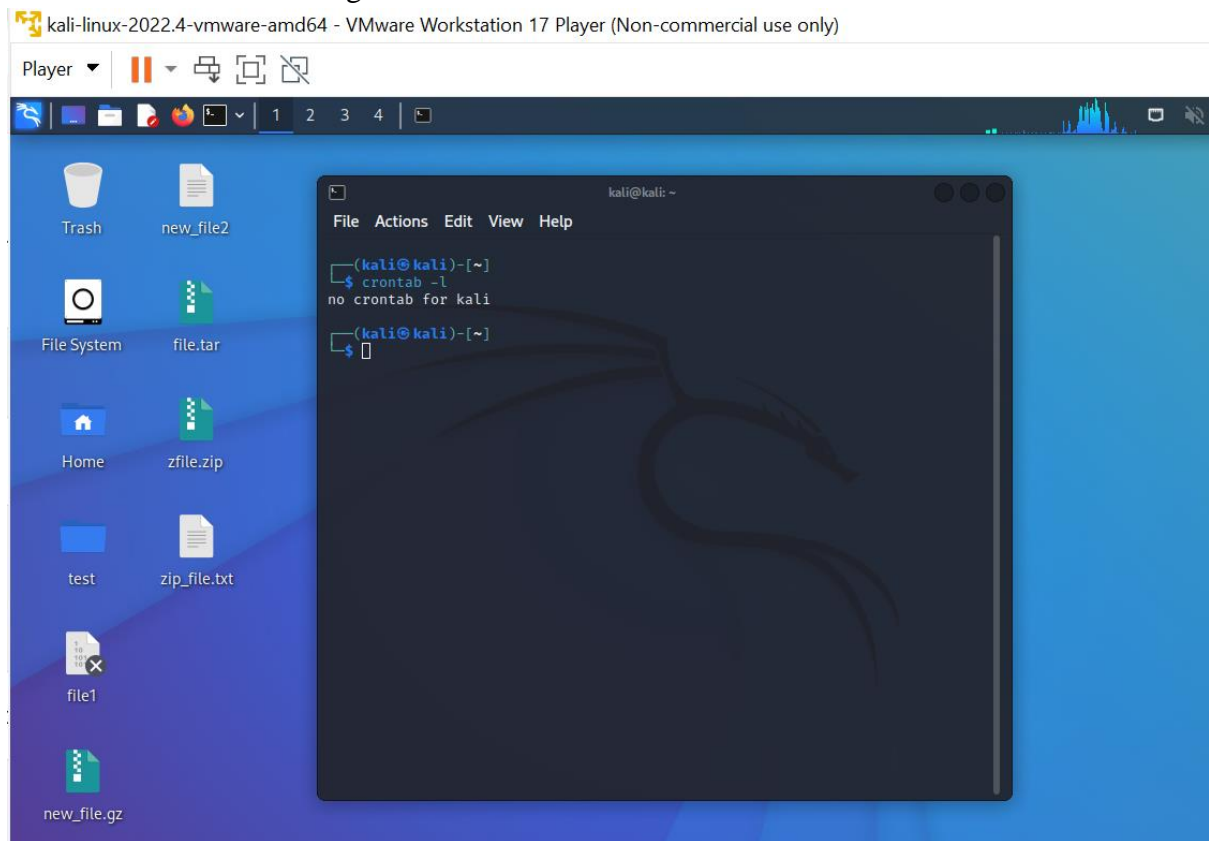


## systemctl: Manage system services

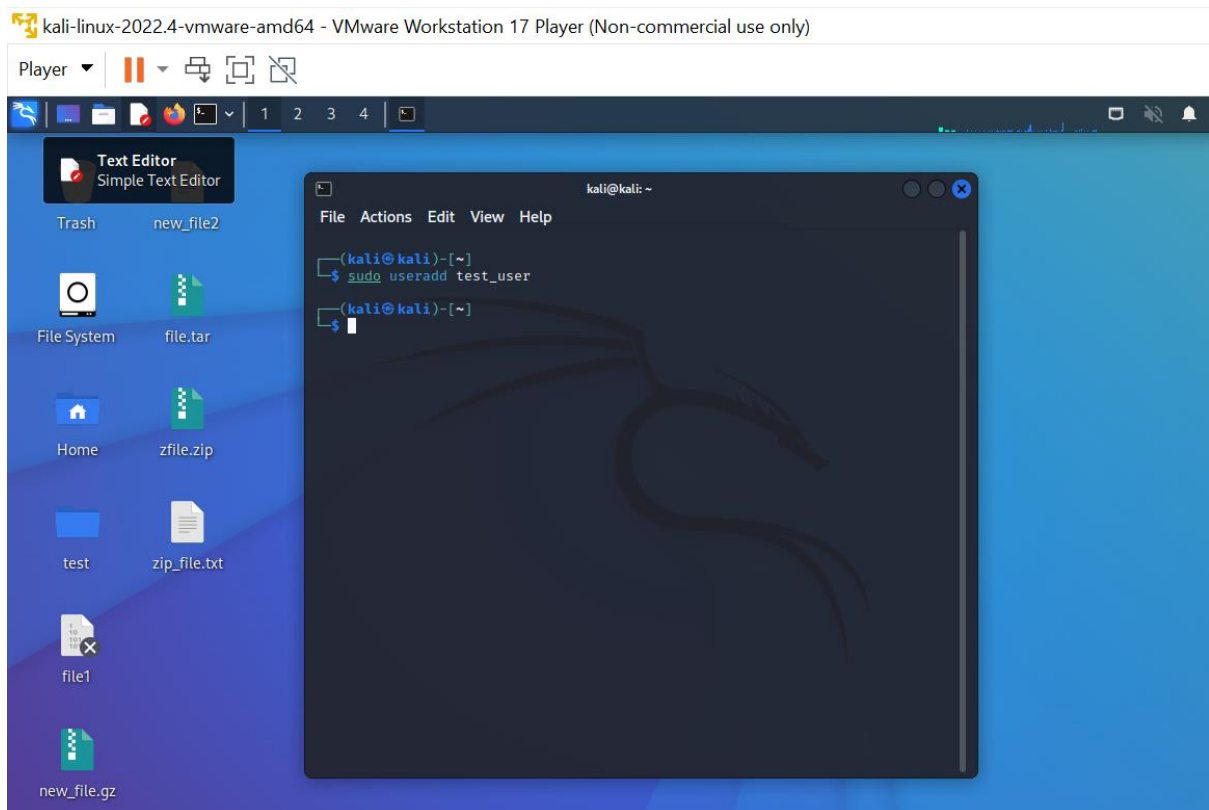




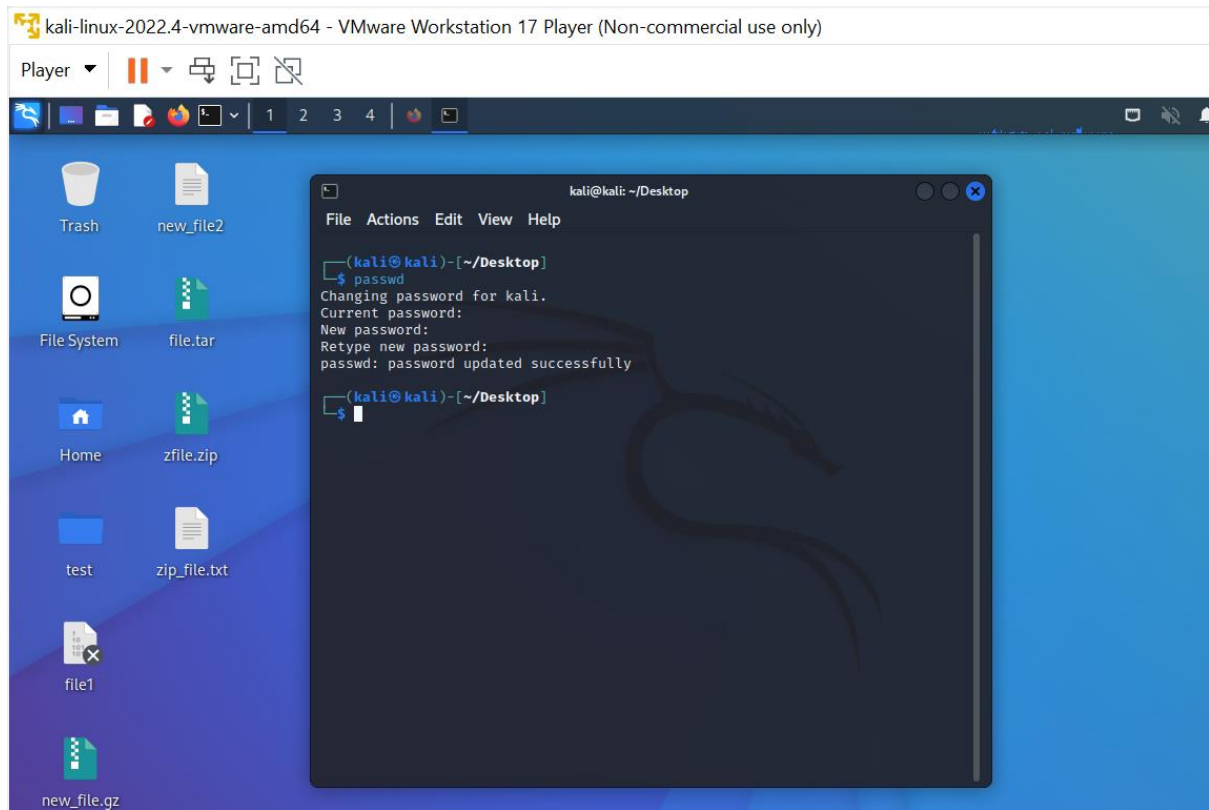
## crontab: Schedule recurring tasks



## useradd: Add a new user



passwd: Change user password



Ensure that you provide the correct command(s) used to accomplish each task. Write your answers below each task.

Once you have completed the assessment, review your answers and verify that the output or results are correct.

Make this in document format and send them with images