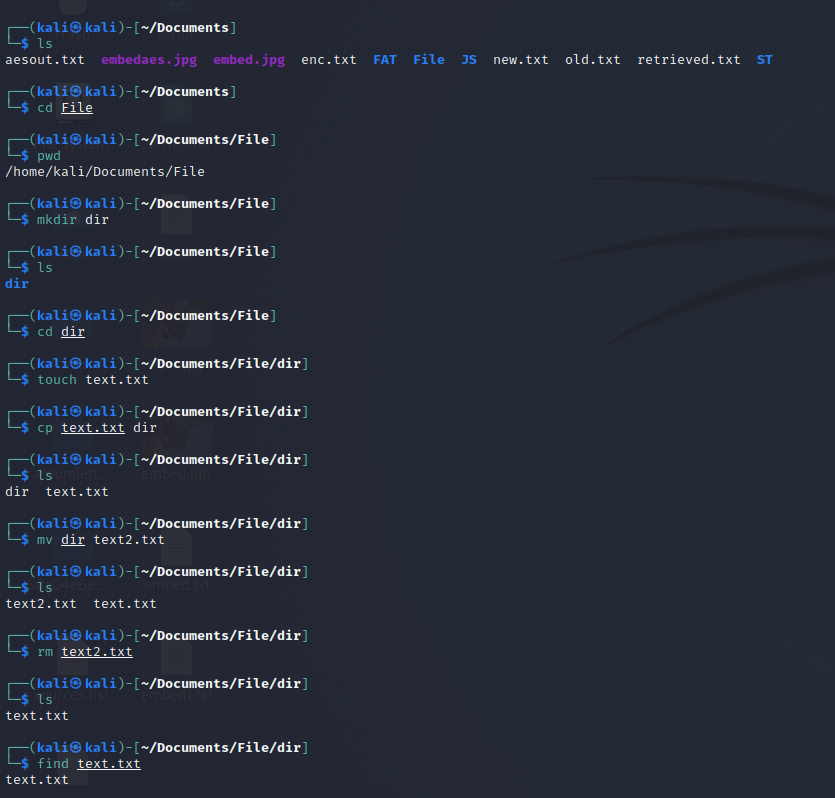
**Name : Saksham Kumar Sahu**

**Reg No. : 20BCY10122**

**Assignment -1**

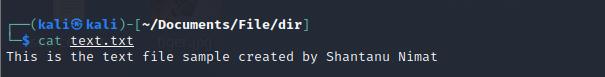
**Kali**

**File and Directory Operations:**

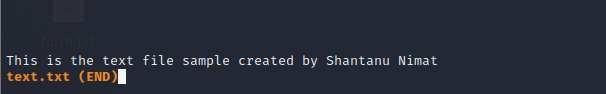


**File Viewing and Editing:**

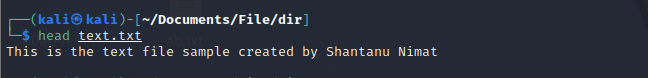
cat: Concatenate and display file content

****

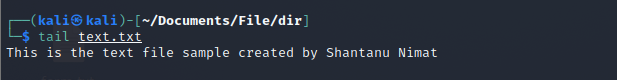
less: View file content with pagination



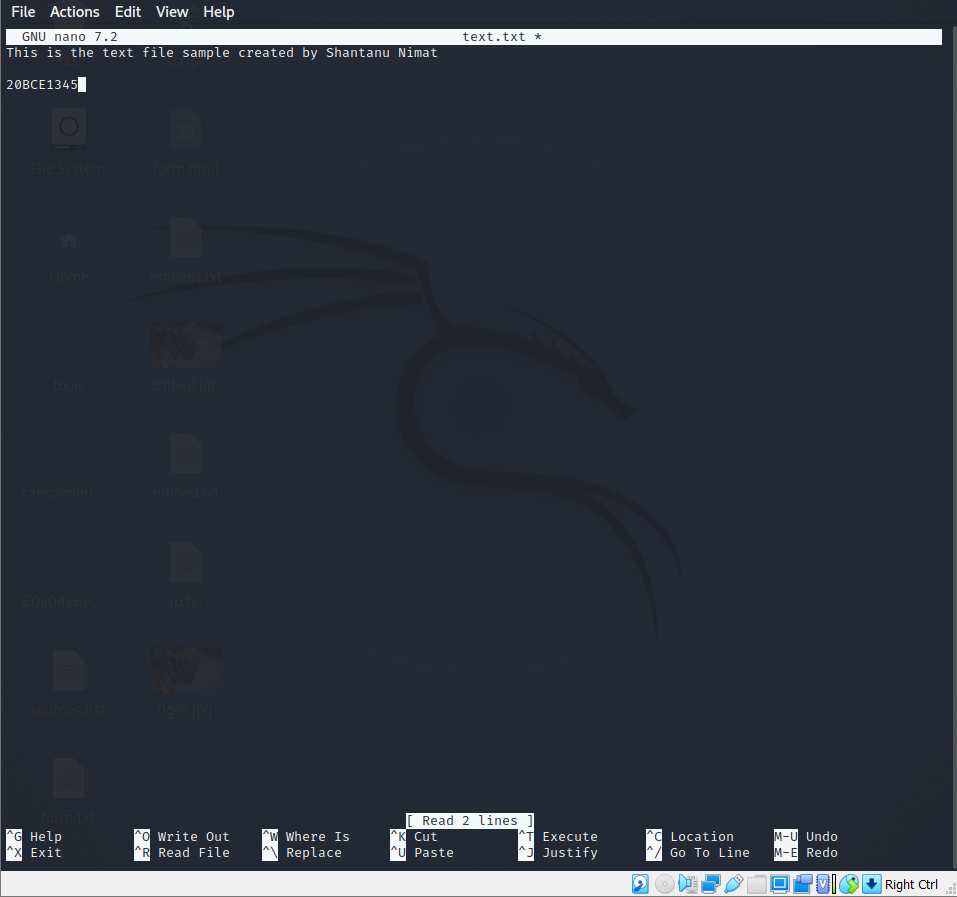
head: Display the beginning of a file



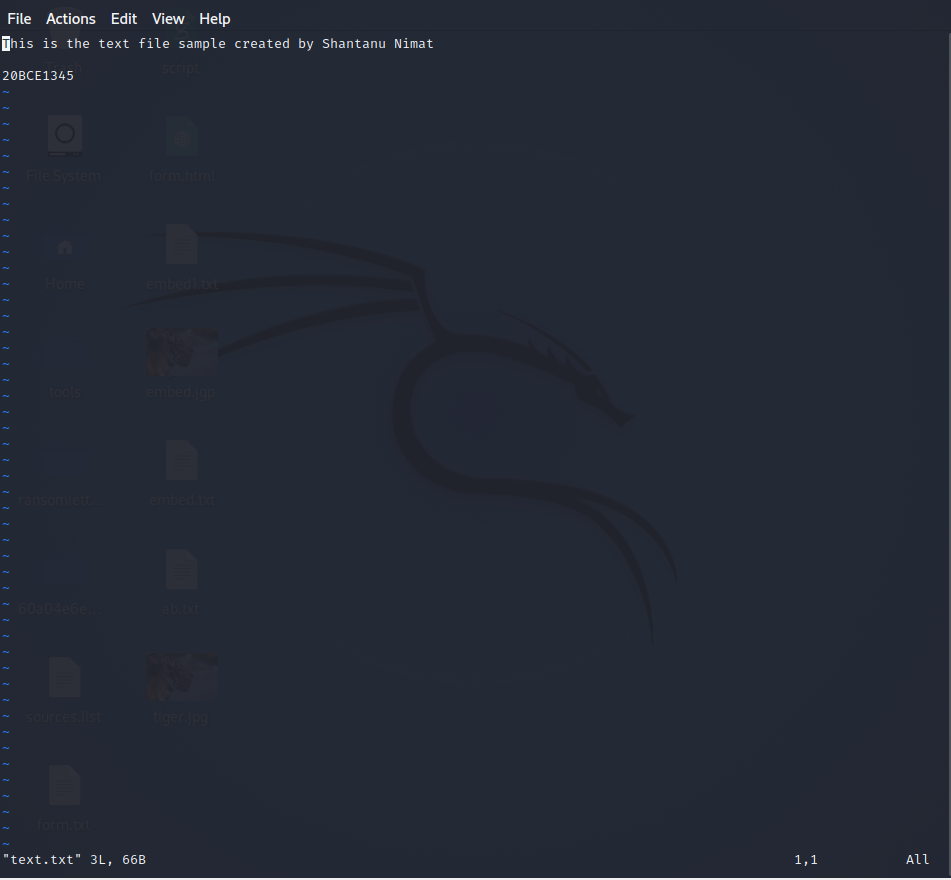
tail: Display the end of a file



nano: Text editor for creating and editing files



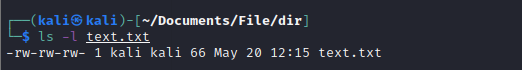
vi/vim: Powerful text editor for experienced users



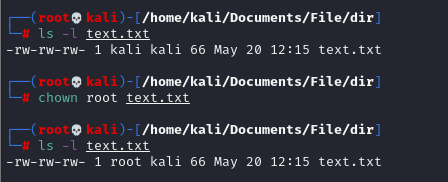
**File Permissions:**

chmod: Change file permissions

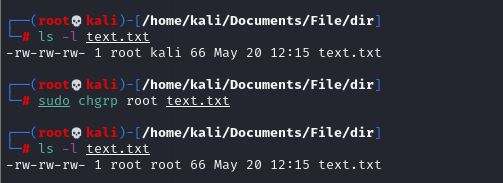
It will set the read and write permission for other users of the text files



chown: Change file owner

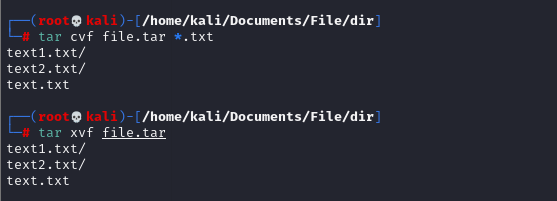


chgrp: Change file group

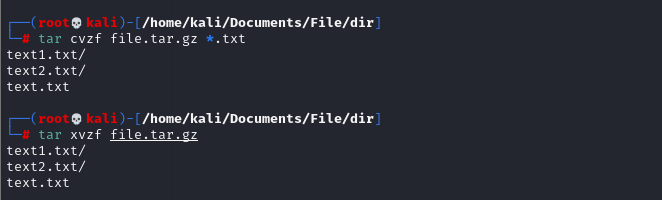


**File Compression and Archiving:**

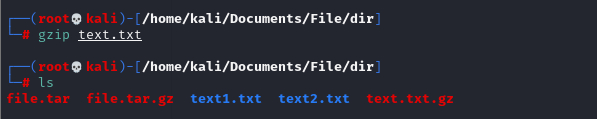
tar: Archive files



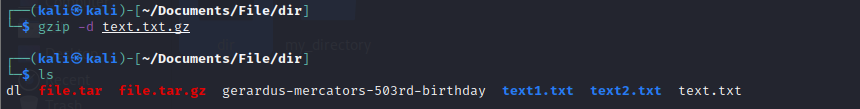
Compressed



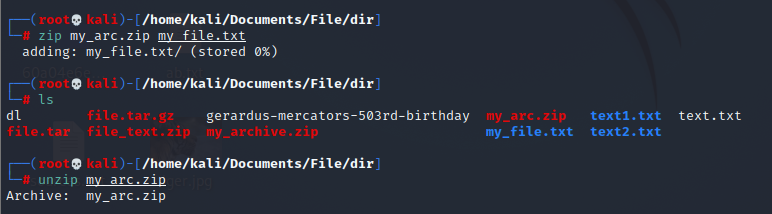
gzip: Compress files



Unzip gzip

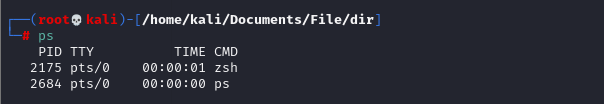


Zip and unzip: Extract files from a ZIP archive

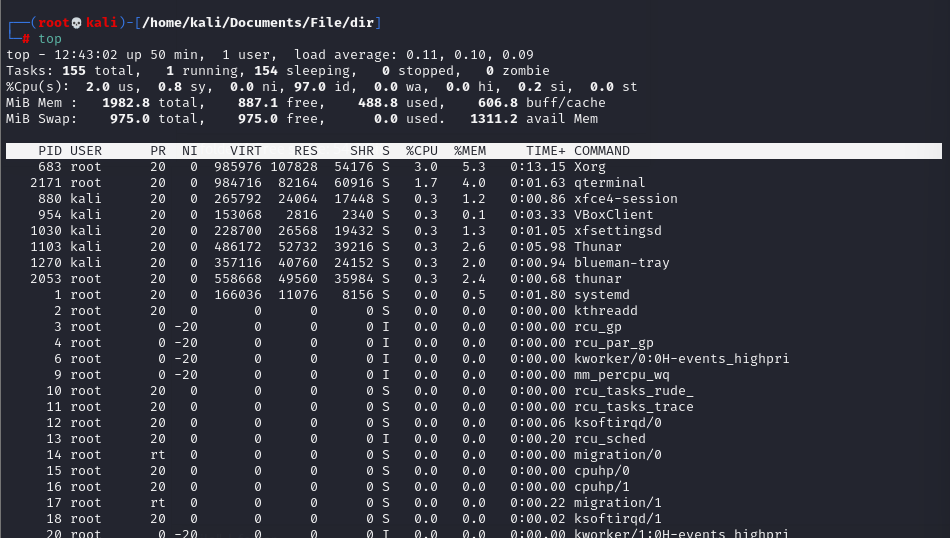


**Process Management:**

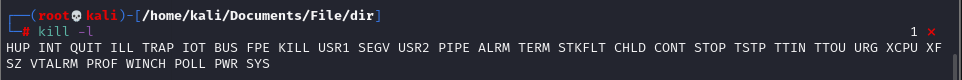
ps: List running processes



top: Display real-time system information and processes



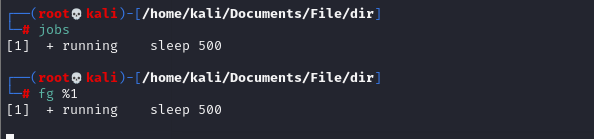
kill: Terminate processes



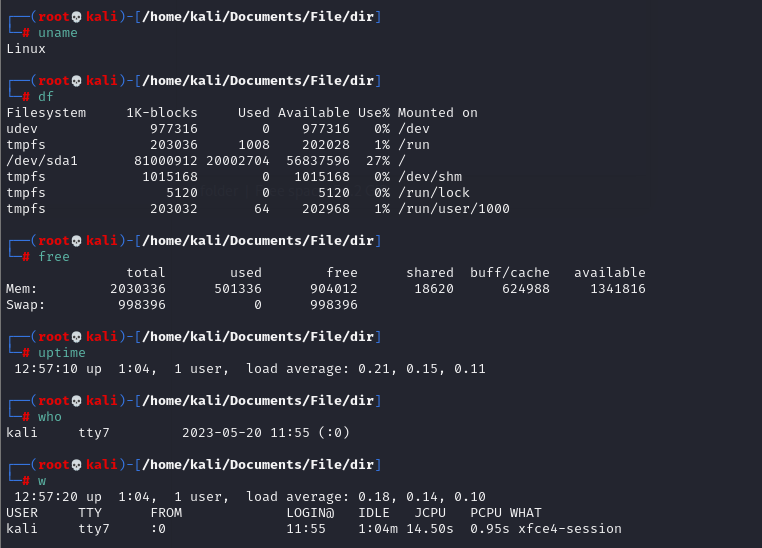
bg: Run processes in the background



fg: Bring background processes to the foreground



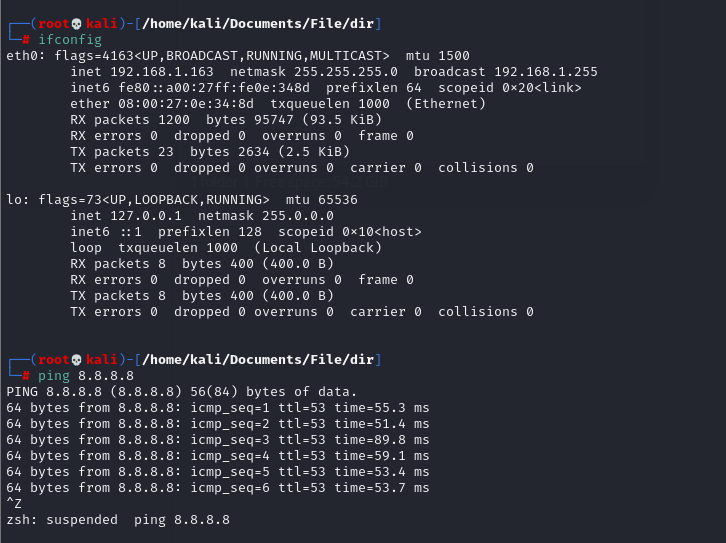
**System Information:**



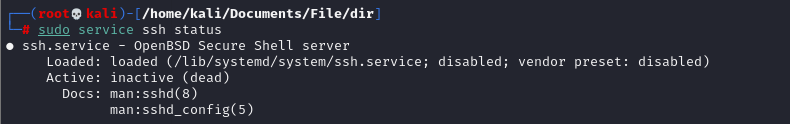
**Networking:**

ifconfig: Configure network interfaces

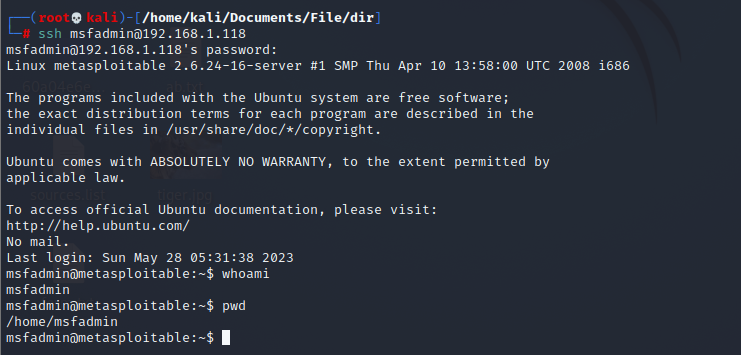
ping: Send ICMP echo requests to a network host

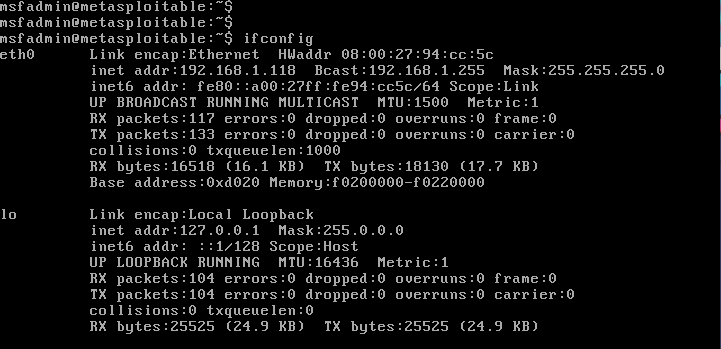


ssh: Securely connect to a remote system

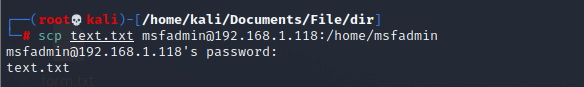


connecting to Metasploitable 2 using ssh

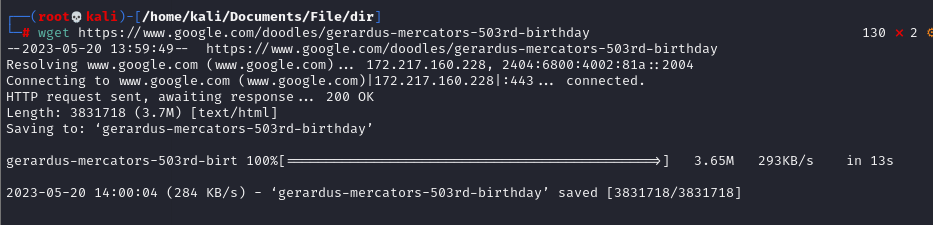




scp: Securely copy files between systems



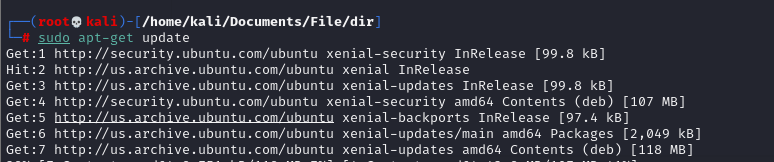
wget: Download files from the web



**System Administration:**

sudo: Execute commands with superuser privileges

apt-get: Package management for Debian-based distributions



yum: Package management for Red Hat-based distributions

It is used for installing, updating, and managing software packages on the system. Here are some commonly used commands with yum:

Install a package:

sudo yum install <package\_name>

Update all installed packages:

sudo yum update

Search for a package:

yum search <keyword>

List installed packages:

yum list installed

Remove a package:

sudo yum remove <package\_name>

Clean the cache and free up disk space:

sudo yum clean all

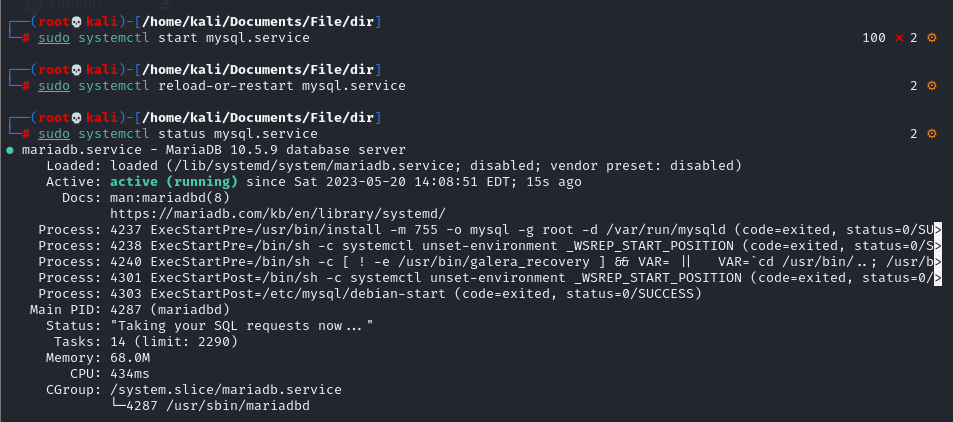
Enable a repository:

sudo yum-config-manager --enable <repository\_name>

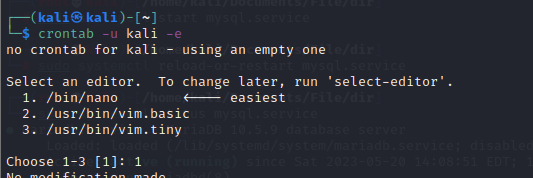
Disable a repository:

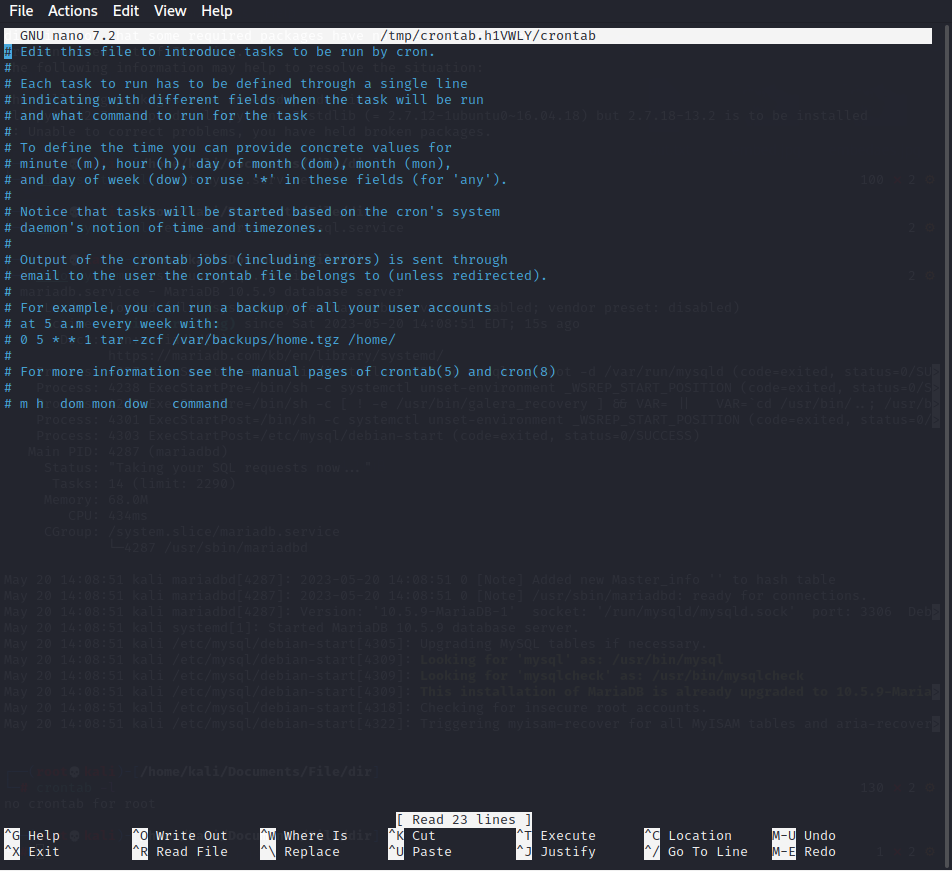
sudo yum-config-manager --disable <repository\_name>

systemctl: Manage system services

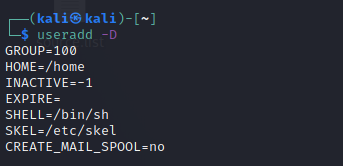


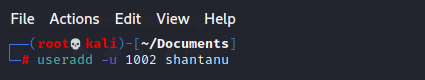
crontab: Schedule recurring tasks

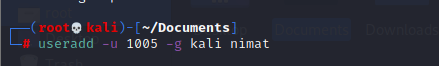




useradd: Add a new user







passwd: Change user password

