

2. Search for all files on the system that named "passwd" using two methods.

```
diana@diana:~$ find / -type f -name "passwd" 2>/dev/null
/etc/pam.d/passwd
/etc/passwd
/usr/bin/passwd
/usr/share/bash-completion/completions/passwd
/usr/share/lintian/overrides/passwd
/snap/core20/1974/etc/pam.d/passwd
/snap/core20/1974/etc/passwd
/snap/core20/1974/usr/bin/passwd
/snap/core20/1974/usr/share/bash-completion/completions/passwd
/snap/core20/1974/usr/share/lintian/overrides/passwd
/snap/core20/1974/var/lib/extrausers/passwd
/snap/core22/858/etc/pam.d/passwd
/snap/core22/858/etc/passwd
/snap/core22/858/usr/bin/passwd
/snap/core22/858/usr/share/bash-completion/completions/passwd
/snap/core22/858/usr/share/lintian/overrides/passwd
/snap/core22/858/var/lib/extrausers/passwd
diana@diana:~$
```

```
diana@diana:~$ locate passwd
```

3. Install Packages called ncompress,ksh

```
sudo apt-get install ncompress ksh
```

4. Compress a file by compress, bzip2 commands and decompress it again.

```
compress file1.txt
```

```
uncompress file1.txt.Z
```

```
bzip2 file1.txt
```

```
bunzip2 file1.txt.bz2
```

5. What is the command used to view the content of a .Z compressed file.

```
zcat file1.txt.Z
```

6. Backup/Archive /etc directory using tar utility.

```
diana@diana:~$ sudo tar -cvzf etcArch.tar.gz /etc
```

7. Starting from your home directory, find all files that were modified in the last two day.

```
diana@diana:~/Desktop$ find ~/ -type f -mtime -2
/home/diana/.gnupg/trustdb.gpg
/home/diana/.gnupg/pubring.kbx
/home/diana/.local/share/gvfs-metadata/home-91aae675.log
/home/diana/.local/share/gvfs-metadata/root-e63cb2b8.log
/home/diana/.local/share/gvfs-metadata/home
/home/diana/.local/share/gvfs-metadata/root
/home/diana/.local/share/recently-used.xbel
/home/diana/.local/share/gnome-shell/application_state
/home/diana/.local/share/gnome-shell/notifications
/home/diana/.local/share/evolution/addressbook/system/contacts.db
/home/diana/.local/share/evolution/calendar/system/calendar.ics
/home/diana/.lessht
/home/diana/.bash_history
/home/diana/etc/Arch.tar.gz
```

8. Starting from /etc, find files owned by root user.\

```
diana@diana:~/Desktop$ sudo find /etc -user root
[sudo] password for diana:
/etc
/etc/rygel.conf
/etc/thunderbird
/etc/thunderbird/syspref.js
/etc/apparmor
/etc/apparmor/init
/etc/apparmor/init/network-interface-security
/etc/apparmor/init/network-interface-security/sbin.dhclient
/etc/apparmor/parser.conf
/etc/grub.d
/etc/grub.d/10_linux_zfs
/etc/grub.d/30_os-prober
/etc/grub.d/25_fwupd
```

9. Find all directories in your home directory.

```
diana@diana:~/Desktop$ find $HOME -type d
/home/diana
/home/diana/.gnupg
/home/diana/Public
/home/diana/Desktop
/home/diana/.local
/home/diana/.local/share
/home/diana/.local/share/ibus-table
/home/diana/.local/share/gnome-settings-daemon
/home/diana/.local/share/gvfs-metadata
/home/diana/.local/share/flatpak
/home/diana/.local/share/flatpak/db
/home/diana/.local/share/nautilus
/home/diana/.local/share/nautilus/tags
/home/diana/.local/share/nautilus/scripts
```

10. Write a command to search for all files on the system that, its name is
“.profile”.

```
diana@diana:~/Desktop$ sudo find / -name .profile
/etc/skel/.profile
/home/baduser/.profile
/home/alaa/.profile
/home/maha/.profile
/home/islam/.profile
/home/diana/.profile
find: '/run/user/1000/doc': Permission denied
find: '/run/user/1000/gvfs': Permission denied
/snap/core20/1974/etc/skel/.profile
/snap/core20/1974/root/.profile
/snap/core22/858/etc/skel/.profile
/snap/core22/858/root/.profile
/root/.profile
diana@diana:~/Desktop$
```

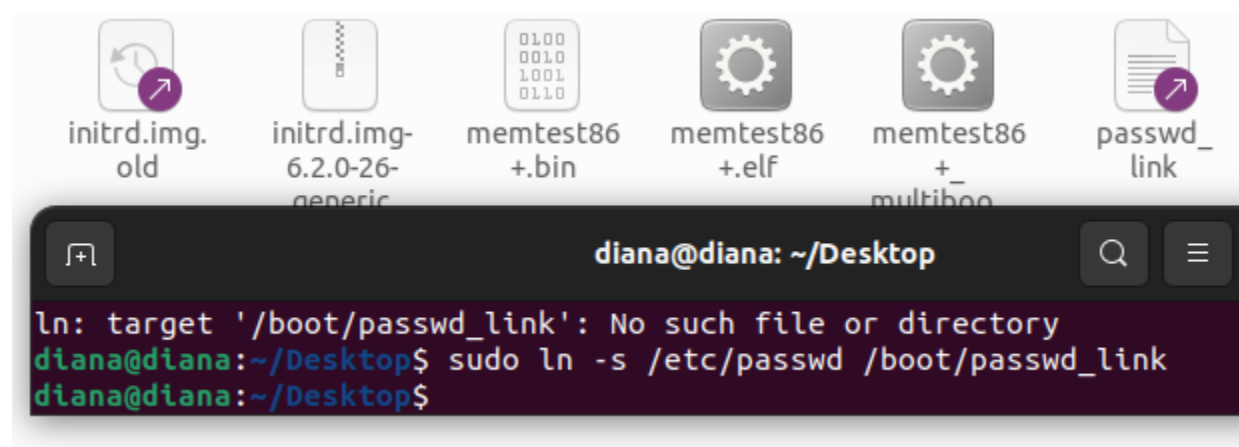
11. List the directories that have 777 Permissions in the system.

```
diana@diana:~/Desktop$ sudo find / -type d -perm 777
find: '/run/user/1000/doc': Permission denied
find: '/run/user/1000/gvfs': Permission denied
diana@diana:~/Desktop$
```

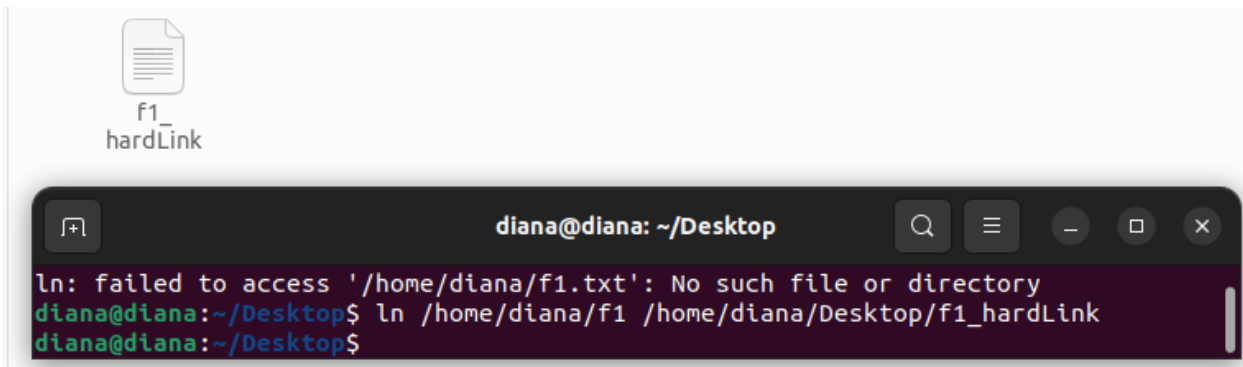
12. Remove package ncompress and ksh

`sudo apt-get remove ncompress ksh`

13. Create a symbolic link of /etc/passwd in /boot.



14. Create a hard link of /home/iti/f1.txt in /home/iti/Desktop.



15. List the inode number of /home/iti/f1.txt

```
diana@diana:~/Desktop$ ls -li /home/diana/f1
656015 /home/diana/f1
```

16. Copy /etc/passwd to your home directory, use the commands diff, and Edit in the file you copied, and then use these command again, and check the output.

```
diana@diana:~/Desktop$ vi ~/passwdCopy
diana@diana:~/Desktop$ diff /etc/passwd ~/passwdCopy
1c1
< root:x:0:0:root:/root:/bin/bash
---
> ddddddroot:x:0:0:root:/root:/bin/bash
diana@diana:~/Desktop$
```