

RHSA 2 - LAB 5

1. Compress a file by compress, gzip, zip commands and decompress it again. State the differences between compress and gzip commands.

```
smabrouk@localhost:~$ touch comp
smabrouk@localhost:~$ bzip2 comp
smabrouk@localhost:~$ ls
change.sh      dbms.sh      Downloads    ff            main.sh      mycp.sh      outputfile   reserved.html  Templates
chkmail.sh     deleterec.sh dropdb.sh    file          menu.sh      mycv         outputfile2  s1.sh         test_perm
comment.sh     depts        droptable.sh filename1     Music        myinfo.sh   page1.html   s2lab.sh      testperm
comp.bz2       Desktop      email.txt    filename2     myarr.sh     myls.sh     page2.html   selection.sh  uid.sh
createdb.sh    dir          '-errorfile' greatest.sh   myavg.sh     mymail.sh   Pictures     selectrec.sh  updatetable.sh
create.table   dir1         errorfile    greeting.sh   mycase.sh    mysq.sh     Public       show          usedatabase.sh
createtable.sh directory     errorfile2   insert.sh     mycd.sh      myteam      rename       snap          Videos
databases     docs         error.txt    lines.sh      mycdmod.sh   mytest.sh   renamedb.sh  sum.sh        tableMenu.sh
dbms           Documents    error.txt    mail.sh       mycpdir      oldpasswd   reserved
```

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

zcat lab5.zip
gzip lab5.zip
gunzip lab5.zip

3. Backup /etc directory using tar utility.

```
smabrouk@localhost:~$ sudo tar -cf etc.tar /etc
[sudo] password for smabrouk:
tar: Removing leading '/' from member names
smabrouk@localhost:~$
```

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

```
smabrouk@localhost:~$ find ~/ -type f -mtime -2
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/.parentlock
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/permissions.sqlite
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/cookies.sqlite
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/prefs.js
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/sessionCheckpoints.json
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage.sqlite
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/permanent/chrome/idb/3870112724rsegmnoittet-es.sqlite
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/permanent/chrome/idb/1657114595AmcateirvtiSty.sqlite
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/.metadata-v2
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/3713173747_s_edmban.sqlite
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/1975025290lbrdri--meegdaierlo-ts.sqlite
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/3166453069wcaw.sqlite
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/3271781254seiggnraolt-s.sqlite
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/2181795718meogdaerlo-ts.sqlite
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/551887895oefgfadr-ost.sqlite
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/4170411019jeogbasr-ost.sqlite
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/1773850371fetgsa-rsot.sqlite
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/cache/caches.sqlite
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/cache/morgue/219/{48a119d0-8fec-4fb3-bed8-ce256c-df9edb}.final
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/cache/morgue/51/{4efa9abf-bd02-4afa-8cd9-759c7a1-ca433}.final
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/cache/morgue/24/{a3a64378-880b-48d6-9570-d14596551a18}.final
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/cache/morgue/202/{789bad36-e95c-4427-970f-20cff95142ca}.final
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/cache/morgue/36/{3c5d9cc5-f1df-459b-a3d0-4f43bc90e924}.final
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/cache/morgue/228/{1166b17e-feal-498c-9c72-7713a69276e4}.final
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/cache/morgue/56/{41d801b9-e910-45a6-9773-2db74ef97b38}.final
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/cache/morgue/121/{c6a2b96c-238b-4f89-99b9-15de3d7efa79}.final
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/cache/morgue/121/{d631be4f-729e-45dd-b974-134bd83d2379}.final
/home/smabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/cache/morgue/121/{0221707b-5afa-4d5c-a16d-037bef
```

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

```
smabrouk@localhost:~$ find /etc -user root
/etc
/etc/mtab
/etc/fstab
/etc/crypttab
/etc/resolv.conf
/etc/dnf
/etc/dnf/modules.d
/etc/dnf/modules.d/container-tools.module
/etc/dnf/modules.d/llvm-toolset.module
/etc/dnf/modules.d/perl.module
/etc/dnf/modules.d/perl-DBD-SQLite.module
/etc/dnf/modules.d/perl-DBI.module
/etc/dnf/modules.d/perl-IO-Socket-SSL.module
/etc/dnf/modules.d/perl-libwww-perl.module
/etc/dnf/modules.d/python36.module
/etc/dnf/modules.d/virt.module
/etc/dnf/modules.d/httpd.module
/etc/dnf/modules.d/nginx.module
/etc/dnf/aliases.d
/etc/dnf/dnf.conf
/etc/dnf/modules.defaults.d
/etc/dnf/plugins
/etc/dnf/plugins/copr.conf
/etc/dnf/plugins/copr.d
/etc/dnf/plugins/debuginfo-install.conf
/etc/dnf/plugins/kpatch.conf
/etc/dnf/plugins/product-id.conf
/etc/dnf/plugins/subscription-manager.conf
/etc/dnf/protected.d
/etc/dnf/protected.d/dnf.conf
/etc/dnf/protected.d/redhat-release.conf
/etc/dnf/protected.d/setup.conf
/etc/dnf/protected.d/systemd.conf
/etc/dnf/protected.d/sudo.conf
/etc/dnf/protected.d/yum.conf
/etc/dnf/vars
/etc/fonts
/etc/fonts/conf.d
```

6. Find all directories in your home directory.

```
smabrouk@localhost:~$ find ~ -type d
/home/slabrouk/
/home/slabrouk/.mozilla
/home/slabrouk/.mozilla/extensions
/home/slabrouk/.mozilla/extensions/{ec8030f7-c20a-464f-9b0e-13a3a9e97384}
/home/slabrouk/.mozilla/plugins
/home/slabrouk/.mozilla/firefox
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/permanent
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/permanent/chrome
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/permanent/chrome/idb
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/permanent/chrome/idb/3870112724rsegmnoittet-es.files
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/permanent/chrome/idb/3870112724rsegmnoittet-es.files/journals
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/permanent/chrome/idb/3561288849sdhlie.files
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/permanent/chrome/idb/1451318868ntouromlalnodyr--eprc.files
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/permanent/chrome/idb/1657114595AmcateirvtiSty.files
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/permanent/chrome/idb/2918063365piupsah.files
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/permanent/chrome/idb/2823318777ntouromlalnodyr--naod.files
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/temporary
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/moz-extension+++cc4fa0de-573d-444f-b70d-0102708b3472^userContextId=4294967295
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/moz-extension+++cc4fa0de-573d-444f-b70d-0102708b3472^userContextId=4294967295/idb
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/moz-extension+++cc4fa0de-573d-444f-b70d-0102708b3472^userContextId=4294967295/idb/3647222921wleabcExolt-eengsairo.files
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/3713173747_s_edmban.files
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/1119037936ptbc_edte.files
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/315746093sw.files
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/1975025290lbrdui--meegdairao-ts.files
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/3166453069wawcaw.files
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/568386319wcanwec_bd.files
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/3271781254seigganraolt-s.files
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/2181795718meogdaerllo-ts.files
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/551887895oefgfadr-ost.files
/home/slabrouk/.mozilla/firefox/nfujxf0x.default-release/storage/default/https+++web.whatsapp.com/idb/4170411019Jeogbasr-ost.files
```

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

```
smabrouk@localhost:~$ sudo find / -type f -name ".profile"
find: '/run/user/1000/gvfs': Permission denied
/var/lib/snapd/snap/core20/1695/etc/skel/.profile
/var/lib/snapd/snap/core20/1695/root/.profile
/var/lib/snapd/snap/core20/1738/etc/skel/.profile
/var/lib/snapd/snap/core20/1738/root/.profile
/var/lib/snapd/snap/core18/2654/etc/skel/.profile
/var/lib/snapd/snap/core18/2654/root/.profile
Salma >>
```

8. Identify the file types of the following: /etc/passwd, /dev/pts/0, /etc, /dev/sda
9. List the inode numbers of /, /etc, /etc/hosts.

```
smabrouk@localhost:~  
File Edit View Search Terminal Help  
Salma >> ls -di /  
128 /  
Salma >> ls -di /etc  
33580161 /etc  
Salma >> ls -di /etc/hosts  
33590001 /etc/hosts  
Salma >>
```

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

```
smabrouk@localhost:~  
File Edit View Search Terminal Help  
Salma >> cp /etc/passwd ~  
Salma >> cmp ~/passwd /etc/passwd  
Salma >> diff ~/passwd /etc/passwd  
Salma >>
```