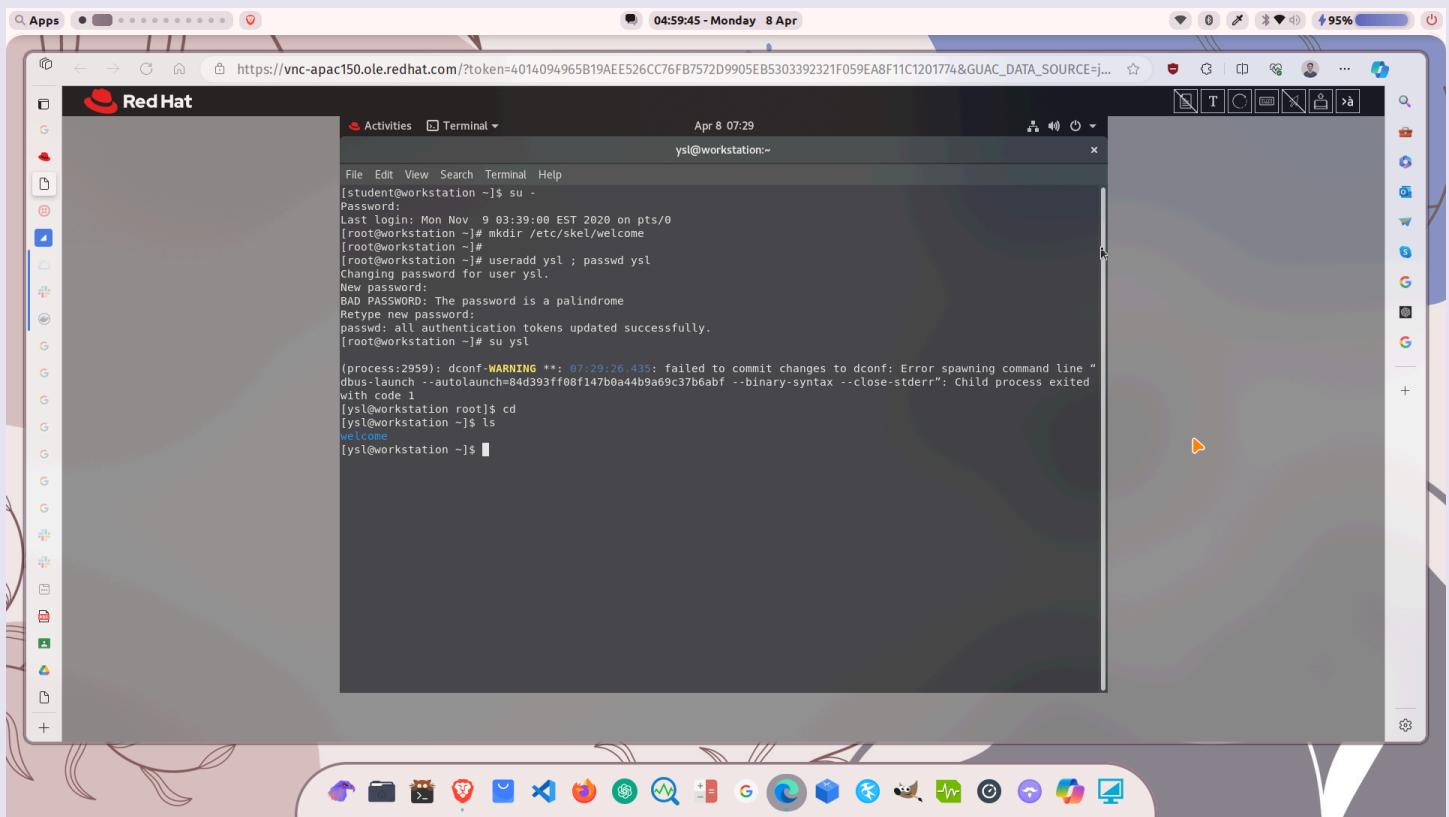


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### Tasks and screenshots :

**Question 1: Ensure that whenever a new user is created in the system, they will be having the a folder name “welcome” created by default in the home directory.**



A screenshot of a Red Hat Linux desktop environment. A terminal window is open, showing the following command history:

```
[student@workstation ~]$ su -
Password:
Last login: Mon Nov  9 03:39:00 EST 2020 on pts/0
[root@workstation ~]# mkdir /etc/skel/welcome
[root@workstation ~]# useradd ysl ; passwd ysl
Changing password for user ysl.
New password:
BAD PASSWORD: The password is a palindrome
Retype new password:
passwd: all authentication tokens updated successfully.
[root@workstation ~]# su ysl
(process:2959): dconf-WARNING **: 07:29:26.435: failed to commit changes to dconf: Error spawning command line "dbus-launch --autolaunch=84d393ff08f147b0a44b9a69c37b6abf --binary-syntax --close-stderr": Child process exited with code 1
[ysl@workstation root]$ cd
[ysl@workstation ~]$ ls
welcome
[ysl@workstation ~]$
```

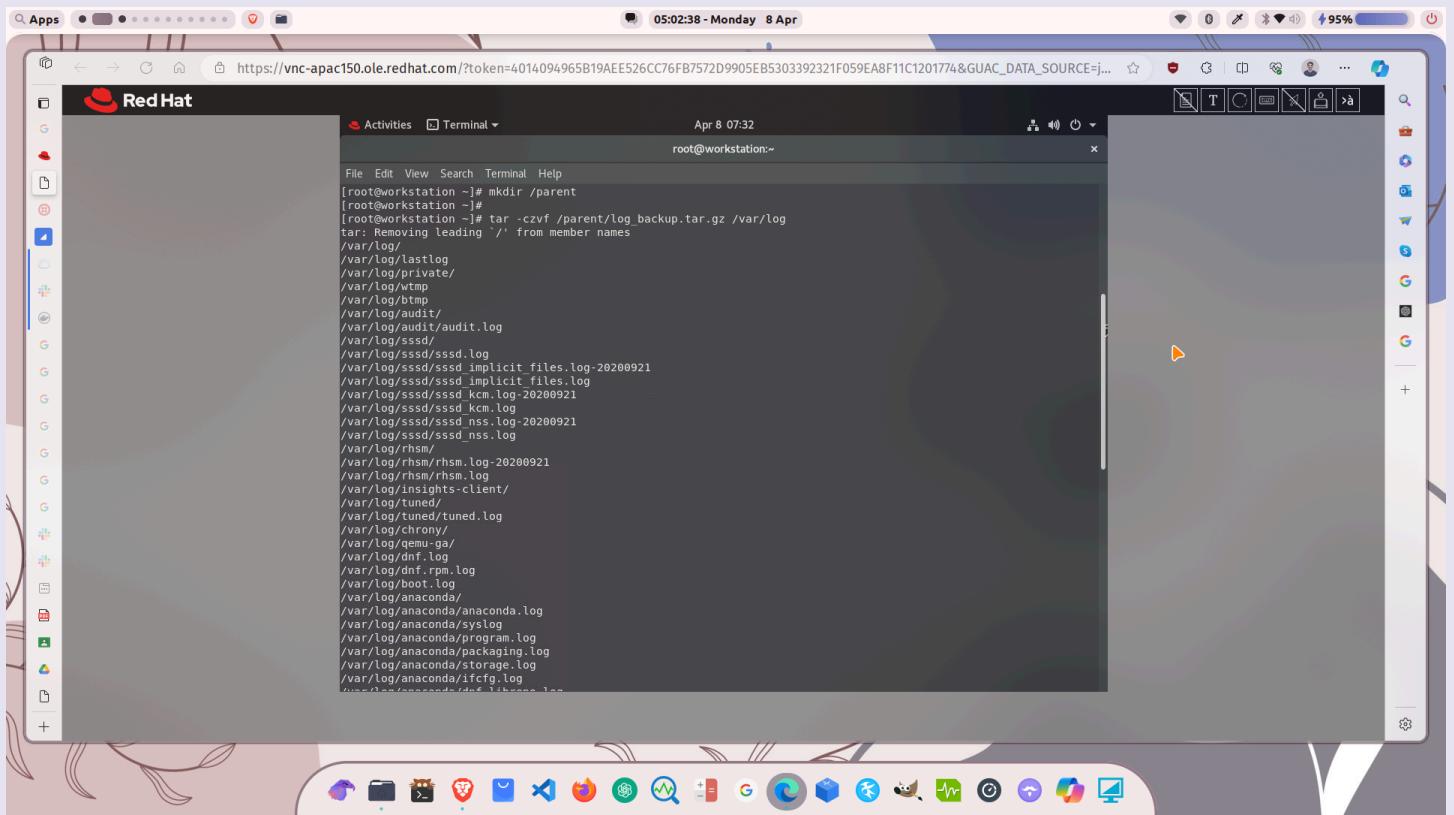
#### Commands :

- **mkdir /etc/skel/welcome** (/etc/skel acts as template for newly created user's home directory, so making welcome directory in it will create so in newly created user's home directory)
- **useradd ysl ; passwd ysl** (to add user and assign password to it)
- **su ysl**
- **cd**
- **ls** (here it can be checked if welcome directory exists)

**Question 2: Create an Archive- Create an archive file in /parent/**

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- It contains backup of /var/log.
- verify the same
- extract the same file
- create three different files and zip and unzip it.



The screenshot shows a Red Hat Linux desktop environment. A terminal window is open, displaying the following command and its output:

```
[root@workstation ~]# mkdir /parent
[root@workstation ~]#
[root@workstation ~]# tar -czvf /parent/log_backup.tar.gz /var/log
tar: Removing leading '/' from member names
/var/log/
/var/log/lastlog
/var/log/private/
/var/log/wtmp
/var/log/btmp
/var/log/audit/
/var/log/audit/audit.log
/var/log/sssd/
/var/log/sssd/sssd.log
/var/log/sssd/sssd_implicit_files.log-20200921
/var/log/sssd/sssd_kcm.log-20200921
/var/log/sssd/sssd_kcm.log
/var/log/sssd/sssd_nss.log-20200921
/var/log/sssd/sssd_nss.log
/var/log/rhsm/
/var/log/rhsm/rhsm.log-20200921
/var/log/rhsm/rhsm.log
/var/log/insights-client/
/var/log/tuned/
/var/log/tuned/tuned.log
/var/log/chrony/
/var/log/qemu-ga/
/var/log/dnf.log
/var/log/dnf.rpm.log
/var/log/boot.log
/var/log/anaconda/
/var/log/anaconda/anaconda.log
/var/log/anaconda/syslog
/var/log/anaconda/program.log
/var/log/anaconda/packaging.log
/var/log/anaconda/storage.log
/var/log/anaconda/ifcfg.log
```

#### Commands :

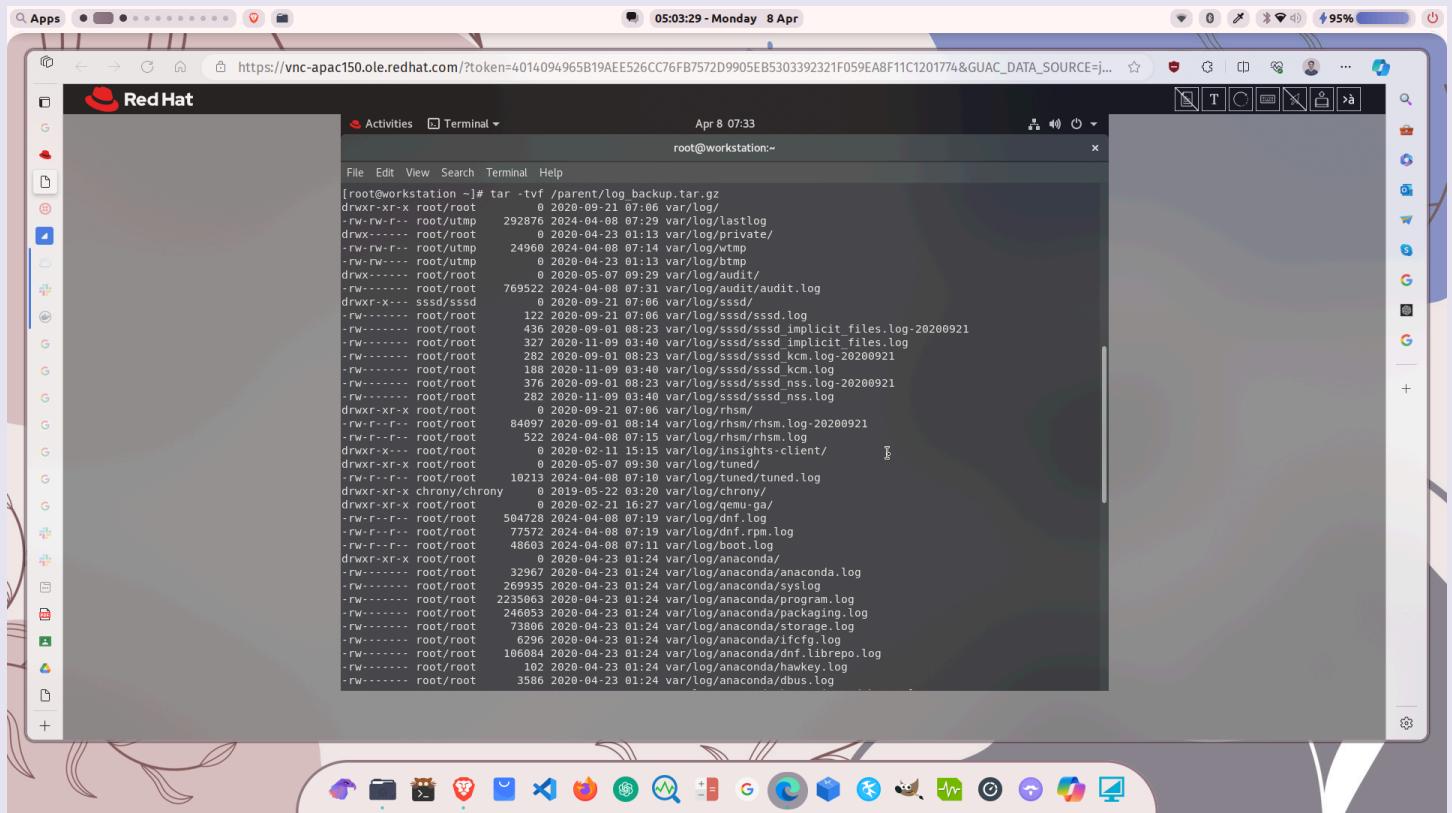
- **mkdir /parent**
- **tar -czvf /parent/log\_backup.tar.gz /var/log** (create tar archive using -z means gzip method and -v means verbosely printing and -f means from file(s) specified)

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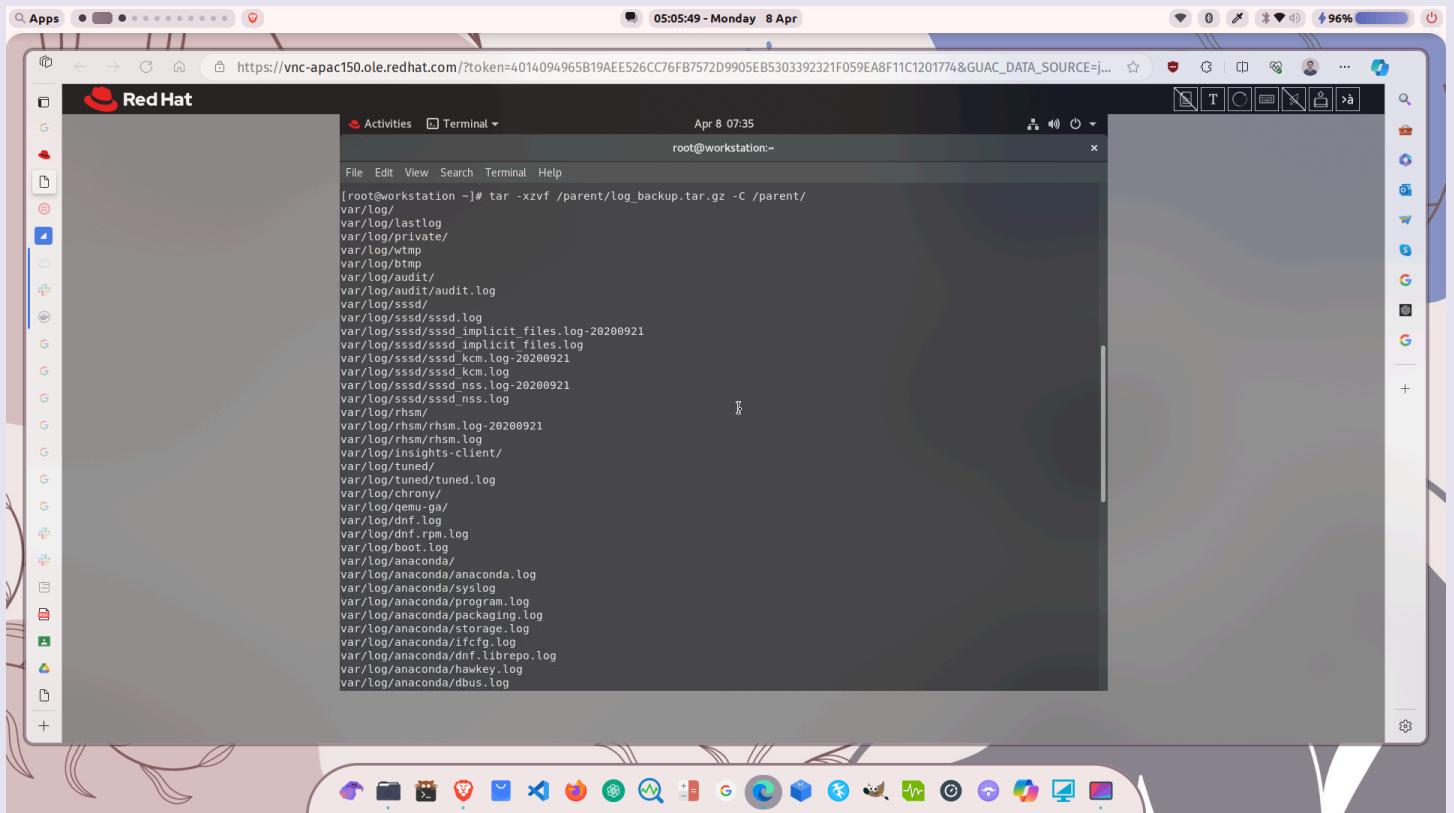
Command : **tar -tvf /parent/log\_backup.tar.gz** (all options like previous, but -t means listing the files in archive)

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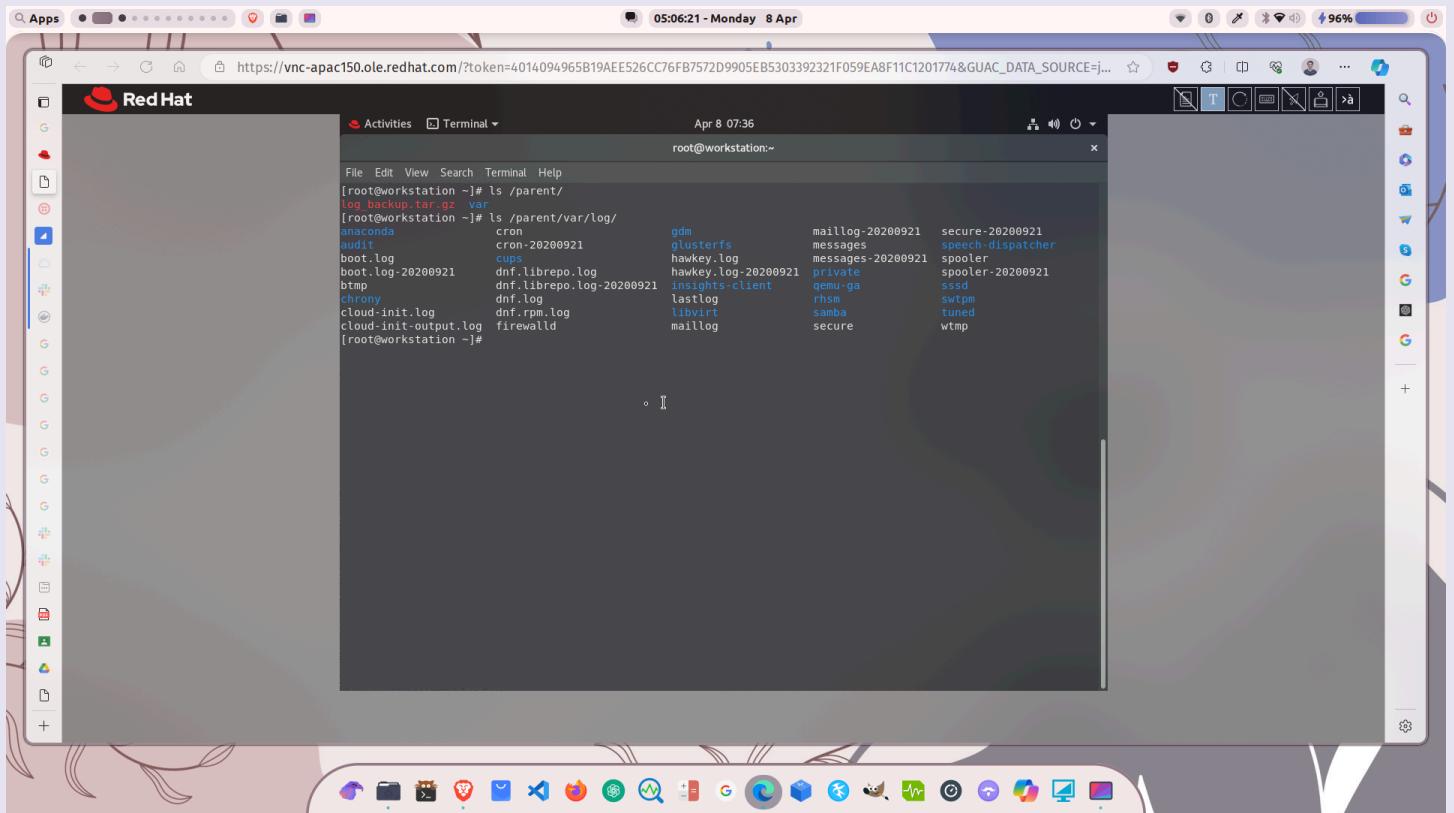
Command : **tar -xzvf /parent/log\_backup.tar.gz -C /parent** (the option x indicates extract the files from archive to specified directory via -C)

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Commands :

- **ls /parent**
- **ls /parent/var/log**

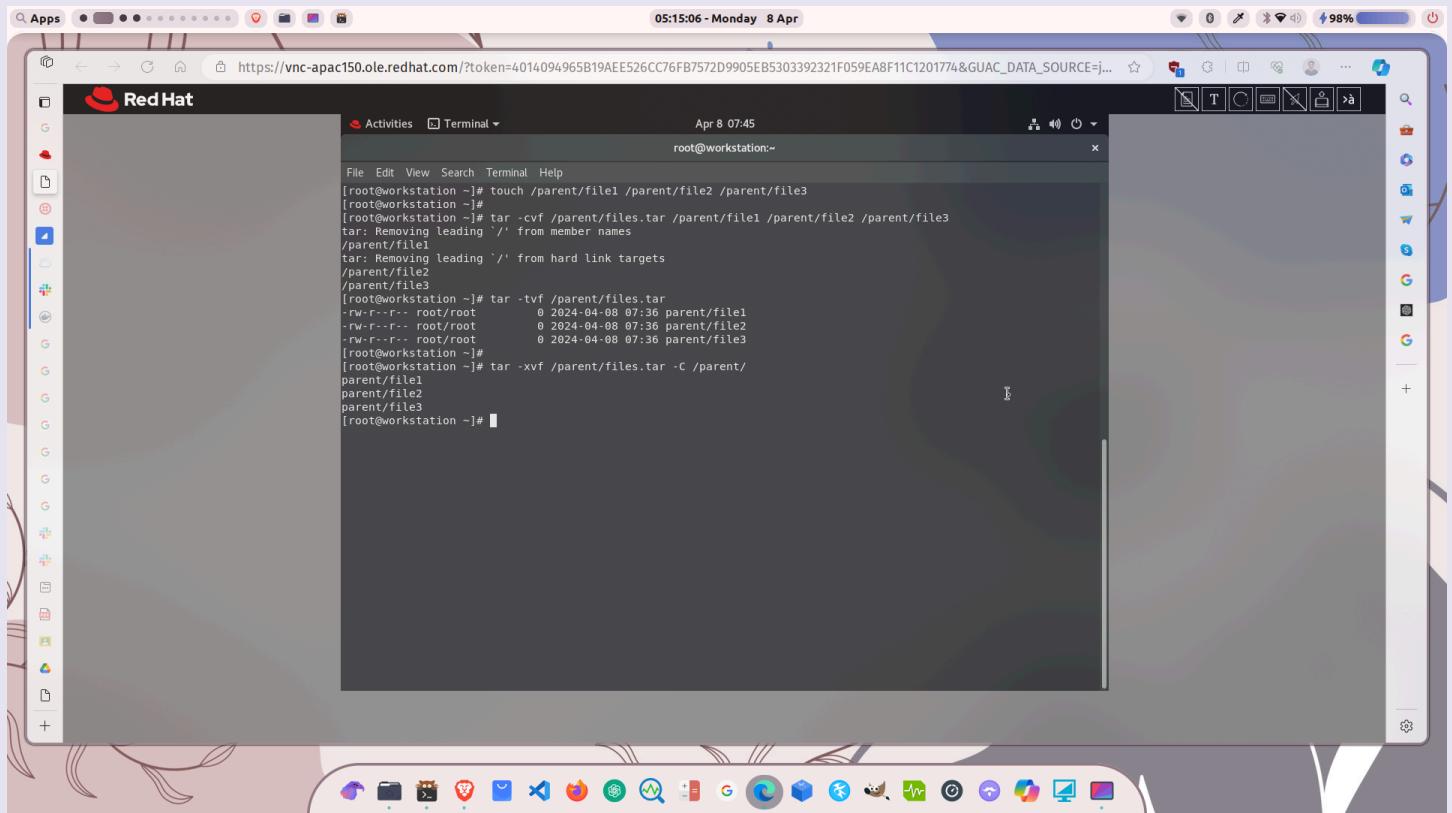
(to list if files are extracted properly)

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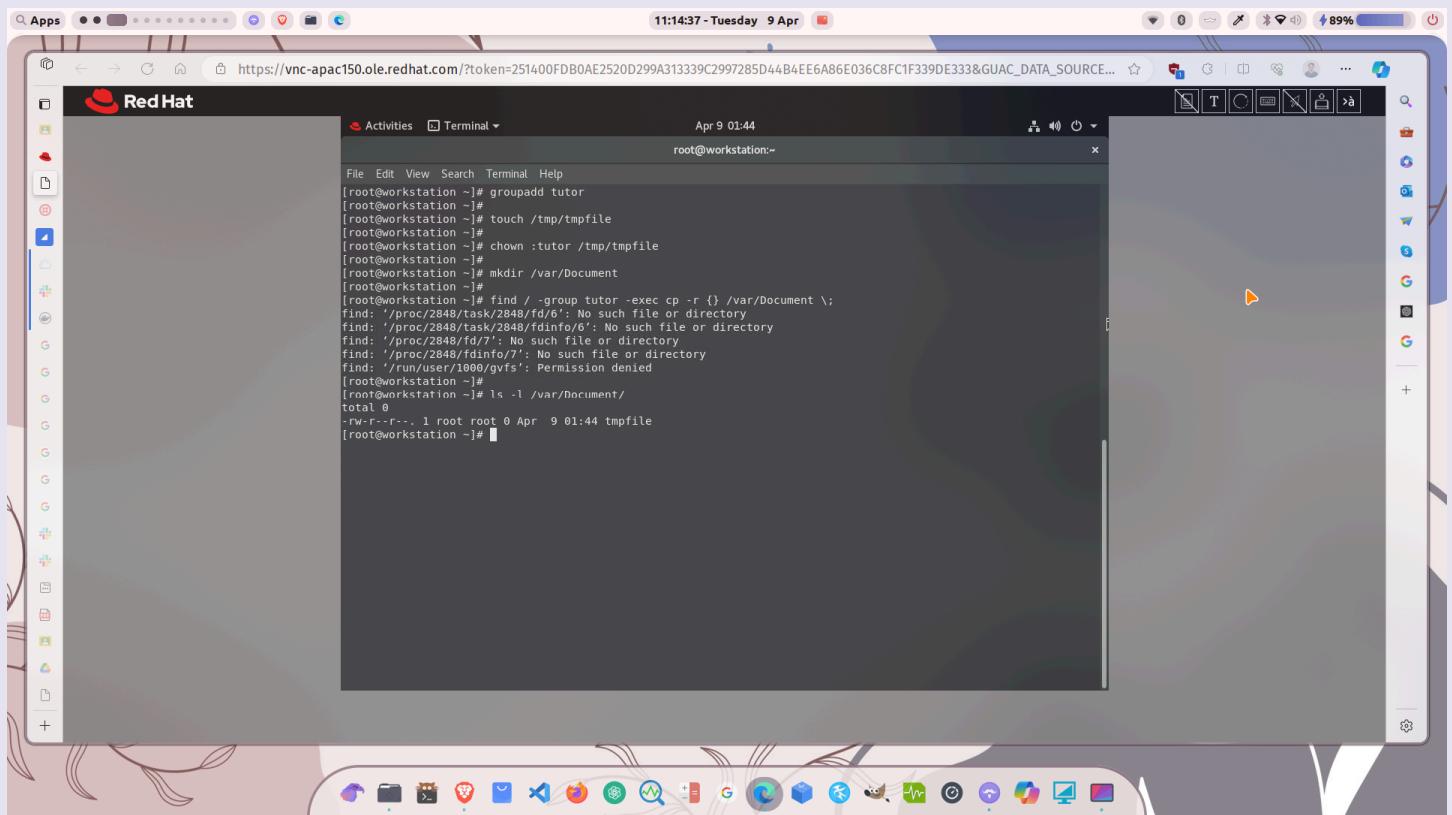
### Commands :

- **touch /parent/file1 /parent/file2 /parent/file3** (to create 2 empty files)
- **tar -cvf /parent/files.tar /parent/file1 /parent/file2 /parent/file3** (to create normal tar archive using default method via -c)
- **tar -tvf /parent/files.tar** (to list archive's files)
- **tar -xvf /parent/files.tar /parent** (to extract archive files in dir specified)

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**Question 3: Find all files & directories that is owned by group tutor.- Copy all files & directories to /var/Document folder.**

- verify the same



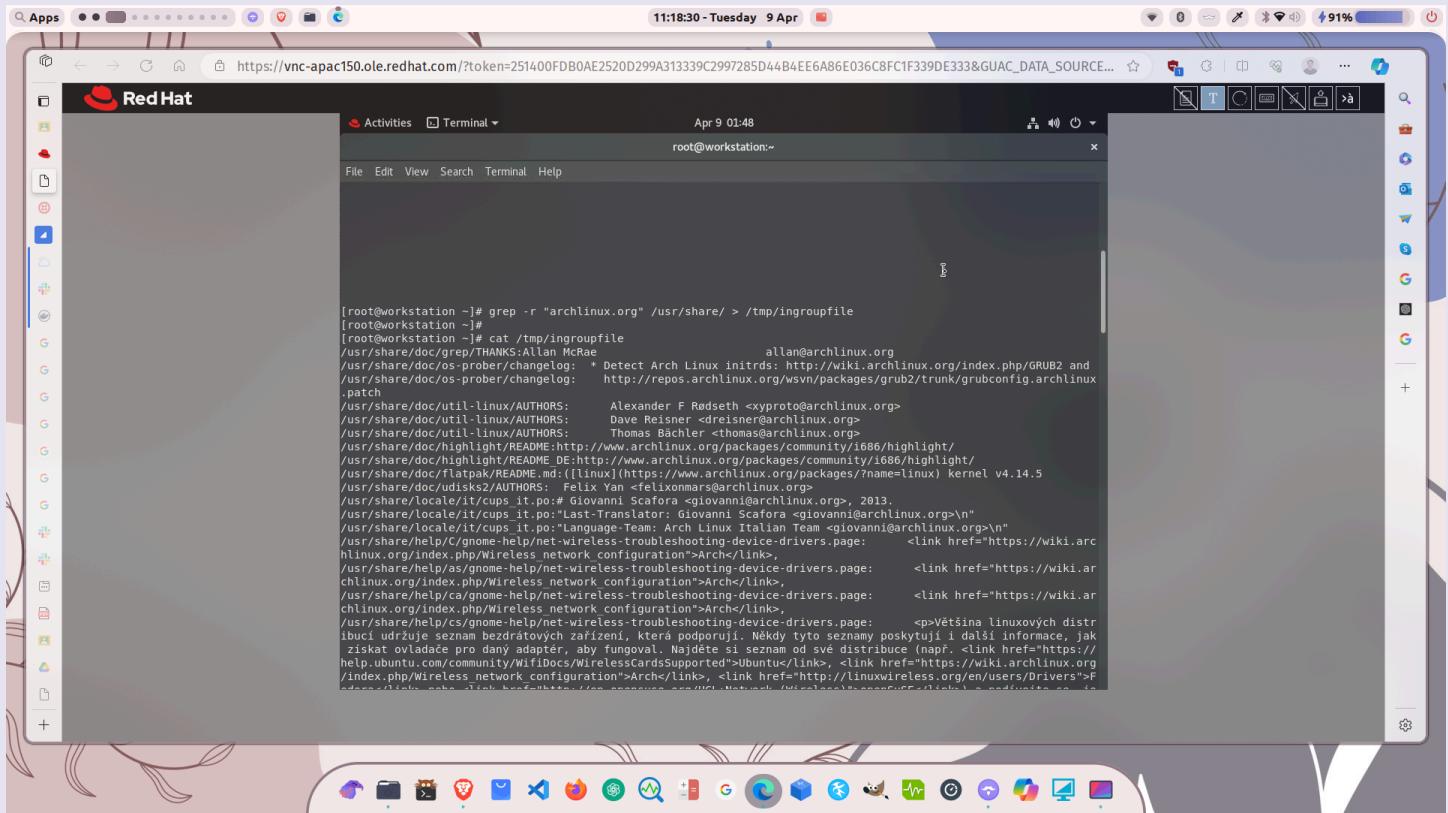
Commands :

- **groupadd tutor** (to create tutor group)
- **touch /tmp/tmpfile** (to create empty file)
- **chown :tutor /tmp/tmpfile** (to change ownership of tmpfile to tutor group, where group is specified after : and user before :)
- **mkdir /var/Document**

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- **find / -group tutor -exec cp -r {} /var/Document \;** (to find in / folder for files owned by tutor group and execute a command ended by \; which is copy command here, recursively using -r option copying the {} means files /dirs got by find in /var/Document)
- **ls -l /var/Document** (to list if results are copied in the folder)

#### Question 4: Search a string in from the file /usr/share/- Store output to a file /tmp/ingroupfile



The screenshot shows a Red Hat Linux desktop environment. A terminal window is open with the following command history:

```
[root@workstation ~]# grep -r "archlinux.org" /usr/share/ > /tmp/ingroupfile
[root@workstation ~]#
[root@workstation ~]# cat /tmp/ingroupfile
/usr/share/doc/grep/THANKS:Allan McRae
allan@archlinux.org
/usr/share/doc/os-prober/changelog: * Detect Arch Linux initrds: http://wiki.archlinux.org/index.php/GRUB2 and
/usr/share/doc/os-prober/changelog: http://repos.archlinux.org/wsvn/packages/grub2/trunk/grubconfig.archlinux
.patch
/usr/share/doc/util-linux/AUTHORS: Alexander F Rødseth <xproto@archlinux.org>
/usr/share/doc/util-linux/AUTHORS: Dave Reisner <dresnier@archlinux.org>
/usr/share/doc/util-linux/AUTHORS: Thomas Bächler <thomas@archlinux.org>
/usr/share/doc/highlight/README: http://www.archlinux.org/packages/community/i686/highlight/
/usr/share/doc/highlight/README_DE: http://www.archlinux.org/packages/community/i686/highlight/
/usr/share/doc/flatpak/README.md: ([linux] (https://www.archlinux.org/packages/?name=linux) kernel v4.14.5
/usr/share/doc/udisks2/AUTHORS: Felix Yan <felixomars@archlinux.org>
/usr/share/locale/it/cups_it.po:# Giovanni Scafara <giovanni@archlinux.org>, 2013.
/usr/share/locale/it/cups_it.po:"Last-Translator: Giovanni Scafara <giovanni@archlinux.org>\n"
/usr/share/help/C/gnome-help/net-wireless-troubleshooting-device-drivers.page: <link href="https://wiki.archlinux.org/index.php/Wireless_network_configuration#Arch</link>
/usr/share/help/C/gnome-help/net-wireless-troubleshooting-device-drivers.page: <link href="https://wiki.archlinux.org/index.php/Wireless_troubleshooting#Arch</link>
/usr/share/help/gnome-help/net-wireless-troubleshooting-device-drivers.page: <link href="https://wiki.archlinux.org/index.php/Wireless_troubleshooting#Arch</link>
/usr/share/help/cs/gnome-help/net-wireless-troubleshooting-device-drivers.page: <sp>Většina linuxových distribucí udržuje seznam bezdrátových zařízení, která podporují. Někdy tyto seznamy poskytují i další informace, jak získat ovladače pro daný adaptér, aby fungoval. Najdete si seznam od své distribuce (např. <link href="https://help.ubuntu.com/community/WifiDocs/WirelessCardsSupported">Ubuntu</link>, <link href="https://wiki.archlinux.org/index.php/Wireless_network_configuration#Arch</link>, <link href="http://linuxwireless.org/en/users/Drivers">Fedor</link>, <link href="http://openwrt.org/doc/development/Devices/Network/Bluetooth&#43;Wireless">OpenWrt</link>), a můžete tam najít ovladače pro daný adaptér.
```

#### Commands :

- **grep -r "archlinux.org" /usr/share > /tmp/ingroupfile** (to get list of all files containing the text specified by -r option in /usr/share and redirect output to ingroupfile)
- **cat /tmp/ingroupfile** (to out the contents of file in terminal)