

ITIM

PRACTICAL - 14

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Tasks :

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.

- 1) Create welcome folder inside /etc/skel to make it a default folder in home dir for any new user
- 2) Create user using useradd and give password using passwd
- 3) Check if the folder is created

```
[root@workstation student]# mkdir /etc/skel/welcome
[root@workstation student]# useradd yagna
[root@workstation student]# passwd yagna
Changing password for user yagna.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@workstation student]# su yagna

(process:2820): dconf-CRITICAL **: 13:31:13.856: unable to create directory '/run/user/1000/dconf': Permission denied. dconf will not work properly.

(process:2820): dconf-CRITICAL **: 13:31:13.856: unable to create directory '/run/user/1000/dconf': Permission denied. dconf will not work properly.

(process:2820): dconf-WARNING **: 13:31:13.858: failed to commit changes to dconf: Could not connect: Permission denied
[yagna@workstation student]$ cd
[yagna@workstation ~]$ ls
welcome
[yagna@workstation ~]$
```

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

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

1) Create an archive file for /var/log using **tar -cvzf**

/parent/log_backup.tar.gz /var/log . c: Create a new archive. v: Verbose mode, which displays the progress of archiving files.

z: Compress the archive using gzip.

f: Specifies the filename of the archive to create.

```
[root@workstation yagna]# tar -cvzf /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_implicit_files.log
/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
```

2) To list the contents of archive use : **tar -tvzf**

/parent/log_backup.tar.gz.

t: List the contents of an archive.

v: Verbose mode, which displays the contents of the archive.

z: Decompress the archive using gzip.

f: Specifies the filename of the archive to work with.

```

yagna@workstation:/home/yagna
File Edit View Search Terminal Help
/var/log/spooler
[root@workstation yagna]# tar -tvzf /parent/log_backup.tar.gz
drwxr-xr-x root/root      0 2020-09-21 07:06 var/log/
-rw-rw-r-- root/utmp    292876 2024-04-14 13:35 var/log/lastlog
drwx----- root/root      0 2020-04-23 01:13 var/log/private/
-rw-rw-r-- root/utmp    24960 2024-04-14 13:30 var/log/wtmp
-rw-rw---- root/utmp      0 2020-04-23 01:13 var/log/btmp
drwx----- root/root      0 2020-05-07 09:29 var/log/audit/
-rw----- root/root    768339 2024-04-14 13:35 var/log/audit/audit.log
drwxr-x--- sssd/sss      0 2020-09-21 07:06 var/log/sss/
-rw----- root/root     122 2020-09-21 07:06 var/log/sss/sss.log
-rw----- root/root     436 2020-09-01 08:23 var/log/sss/sss_implicit_files.log-20200921
-rw----- root/root     327 2020-11-09 03:40 var/log/sss/sss_implicit_files.log
-rw----- root/root     282 2020-09-01 08:23 var/log/sss/sss_kcm.log-20200921
-rw----- root/root     188 2020-11-09 03:40 var/log/sss/sss_kcm.log
-rw----- root/root     376 2020-09-01 08:23 var/log/sss/sss_nss.log-20200921
-rw----- root/root     282 2020-11-09 03:40 var/log/sss/sss_nss.log
drwxr-xr-x root/root      0 2020-09-21 07:06 var/log/rhsm/
-rw-r--r-- root/root    84097 2020-09-01 08:14 var/log/rhsm/rhsm.log-20200921
-rw-r--r-- root/root     522 2024-04-14 13:30 var/log/rhsm/rhsm.log
drwxr-x--- root/root      0 2020-02-11 15:15 var/log/insights-client/
drwxr-xr-x root/root      0 2020-05-07 09:30 var/log/tuned/
-rw-r--r-- root/root    10213 2024-04-14 13:28 var/log/tuned/tuned.log
drwxr-xr-x chrony/chrony  0 2019-05-22 03:20 var/log/chrony/
drwxr-xr-x root/root      0 2020-02-21 16:27 var/log/qemu-ga/
-rw-r--r-- root/root    502971 2020-09-21 06:33 var/log/dnf.log
-rw-r--r-- root/root    77518 2020-09-21 06:33 var/log/dnf.rpm.log
-rw-r--r-- root/root    48603 2024-04-14 13:29 var/log/boot.log
drwxr-xr-x root/root      0 2020-04-23 01:24 var/log/anaconda/
-rw----- root/root     32967 2020-04-23 01:24 var/log/anaconda/anaconda.log
-rw----- root/root    269935 2020-04-23 01:24 var/log/anaconda/syslog
-rw----- root/root    2235063 2020-04-23 01:24 var/log/anaconda/program.log
-rw----- root/root    246053 2020-04-23 01:24 var/log/anaconda/packaging.log
-rw----- root/root     73806 2020-04-23 01:24 var/log/anaconda/storage.log
-rw----- root/root      6296 2020-04-23 01:24 var/log/anaconda/ifcfg.log

```

- 3) To extract the archived file use : `tar -xvzf`
`/parent/log_backup.tar.gz -C /parent/`
x: Extract files from an archive.
v: Verbose mode, which displays the progress of extracting files.
z: Decompress the archive using gzip.
f: Specifies the filename of the archive to extract.

```
[root@workstation yagna]# ls /parent
log_backup.tar.gz
[root@workstation yagna]# tar -xvzf /parent/log_backup.tar.gz -C /parent
var/log/
var/log/lastlog
var/log/private/
var/log/wtmp
var/log/btmp
var/log/audit/
var/log/audit/audit.log
var/log/sss/
var/log/sss/sss.log
var/log/sss/sss_implicit_files.log-20200921
var/log/sss/sss_implicit_files.log
var/log/sss/sss_kcm.log-20200921
var/log/sss/sss_kcm.log
var/log/sss/sss_nss.log-20200921
var/log/sss/sss_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
```

```
[root@workstation yagna]# ls /parent/var/log
anaconda      cron          gdm           maillog-20200921  secure-20200921
audit         cron-20200921 glusterfs     messages          speech-dispatcher
boot.log      cups         hawkey.log   messages-20200921 spooler
boot.log-20200921 dnf.librepo.log hawkey.log-20200921 private          spooler-20200921
btmp         dnf.librepo.log-20200921 insights-client qemu-ga          sssd
chrony       dnf.log      lastlog      rhsm             swtmp
cloud-init.log dnf.rpm.log  libvirt      samba            tuned
cloud-init-output.log firewalld    maillog      secure           wtmp
```

4) Create 3 files. Zip them using **zip file_dest_name file_name**. unzip using **unzip zip_name -d dest_dir**. -d to specify dir.

```
[root@workstation yagna]# touch yagna{1..3}.txt
[root@workstation yagna]# ls
```

```
[root@workstation yagna]# zip yagna.zip yagna{1..3}.txt
  adding: yagna1.txt (stored 0%)
  adding: yagna2.txt (stored 0%)
  adding: yagna3.txt (stored 0%)
[root@workstation yagna]# ls
welcome yagna1.txt yagna2.txt yagna3.txt yagna.zip
[root@workstation yagna]#
```

```
[root@workstation yagna]# unzip yagna.zip -d welcome
Archive:  yagna.zip
  extracting: welcome/yagna1.txt
  extracting: welcome/yagna2.txt
  extracting: welcome/yagna3.txt
[root@workstation yagna]# ls welcome
yagna1.txt yagna2.txt yagna3.txt
[root@workstation yagna]#
```

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

- verify the same

1) Create group using groupadd tutor

2) Create files using touch

3) Give ownership to group using chown :tutor files

4) Find the files owned by tutor and copy them to /var/Document using `find / -group tutor -exec cp -r {} /var/Document \;`

```
[root@workstation /]# groupadd tutor
[root@workstation /]# mkdir files
[root@workstation /]# touch files/file{1..3}.txt
[root@workstation /]# chown :tutor files
[root@workstation /]# find / -group tutor -exec cp -r {} /var/Document \;
find: '/proc/3327/task/3327/fd/6': No such file or directory
find: '/proc/3327/task/3327/fdinfo/6': No such file or directory
find: '/proc/3327/fd/7': No such file or directory
find: '/proc/3327/fdinfo/7': No such file or directory
find: '/run/user/1000/gvfs': Permission denied
[root@workstation /]# chown :tutor files/file1.txt
[root@workstation /]# find / -group tutor -exec cp -r {} /var/Document \;
find: '/proc/3362/task/3362/fd/6': No such file or directory
find: '/proc/3362/task/3362/fdinfo/6': No such file or directory
find: '/proc/3362/fd/7': No such file or directory
find: '/proc/3362/fdinfo/7': No such file or directory
find: '/run/user/1000/gvfs': Permission denied
[root@workstation /]# ls -l files
total 0
-rw-r--r--. 1 root tutor 0 Apr 14 13:48 file1.txt
-rw-r--r--. 1 root root 0 Apr 14 13:48 file2.txt
-rw-r--r--. 1 root root 0 Apr 14 13:48 file3.txt
[root@workstation /]# ls
bin  dev  files  lib  media  opt  proc  run  srv  tmp  var
boot  etc  home  lib64  mnt  parent  root  sbin  sys  usr
[root@workstation /]# ls /var/Document
file1.txt  file2.txt  file3.txt  files
[root@workstation /]#
```

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

- 1) Find the files with string “ZZZ” in /usr/share using **grep -r** and store the output in /tmp/ingroup file using **> /tmp/ingroup**
- 2) Check using **cat**

```
[root@workstation /]# grep -r "ZZZ" /usr/share > /tmp/ingroupfile

[root@workstation /]# cat /tmp/ingroupfile
/usr/share/licenses/gnutls/LICENSE:For any copyright year range specified as YYYY-ZZZZ in this package
/usr/share/licenses/perl-Term-ANSIColor/LICENSE: For any copyright year range specified as YYYY-ZZZZ in this fi
le, the
/usr/share/licenses/perl-podlators/LICENSE: For any copyright year range specified as YYYY-ZZZZ in this file, t
he
/usr/share/doc/grep/README:For any copyright year range specified as YYYY-ZZZZ in this package
/usr/share/doc/file-libs/README:gpg: Signature made WWW MMM DD HH:MM:SS YYYY ZZZ using DSA key ID KKKKKKKK
/usr/share/doc/file/README:gpg: Signature made WWW MMM DD HH:MM:SS YYYY ZZZ using DSA key ID KKKKKKKK
/usr/share/doc/diffutils/README:For any copyright year range specified as YYYY-ZZZZ in this package
/usr/share/doc/libtasn1/README:For any copyright year range specified as YYYY-ZZZZ in this package
/usr/share/doc/mpfr/README:For any copyright year range specified as YYYY-ZZZZ in this package,
/usr/share/doc/coreutils-common/README:For any copyright year range specified as YYYY-ZZZZ in this package
Binary file /usr/share/doc/ncurses/NEWS.bz2 matches
/usr/share/doc/gzip/README:For any copyright year range specified as YYYY-ZZZZ in this package
/usr/share/doc/parted/README:For any copyright year range specified as YYYY-ZZZZ in this package
Binary file /usr/share/doc/luau/osi-certified-72x60.png matches
/usr/share/doc/libidn/README:For any copyright year range specified as YYYY-ZZZZ in this package
/usr/share/doc/perl-Term-ANSIColor/README: For any copyright range specified by files in this package as YYYY-
ZZZZ,
/usr/share/doc/perl-podlators/README: For any copyright range specified by files in this package as YYYY-ZZZZ,
Binary file /usr/share/doc/luau-expat/luauexpat.png matches
Binary file /usr/share/doc/qt5/global/template/images/sprites-combined.png matches
/usr/share/doc/usb_modeswitch-data/ChangeLog: Yota Router (Quanta 1QDLZZZ0ST2), [057c:62ff] AVM Fritz!Wlan U
SB Stick
/usr/share/doc/usb_modeswitch-data/ChangeLog: Hisense E910 EVDO Phone, Yota Router (Quanta 1QDLZZZ0ST2),
/usr/share/doc/usb_modeswitch/device_reference.txt:# Yota Router (Quanta 1QDLZZZ0ST2)
```