File Compression

ZIP

1. Creating a ZIP Archive for multiple files:

zip files file1.txt file2.txt file3.txt

2. Show file contents in Zip:

```
zip -sf files.zip
```

```
[root@localhost ~]# zip -sf files.zip
Archive contains:
   kholi2
   kholi4
   kholi5
```

3. Adding a Directory to existing ZIP Archive:

```
zip -r files <directory>
```

```
[root@localhost ~]# zip -r files p
 adding: p/ (stored 0%)
```

4. Delete Files From ZIP Archive:

```
zip -d files.zip file5.txt
```

```
[root@localhost ~]# zip -d files.zip kholi2
deleting: kholi2
```

5. To create random 1Gb file:

fallocate -l 1G filename

```
[root@localhost /]# fallocate -l 1G example
[root@localhost /]# ls -lh example
-rw-r--r--. 1 root root 1.0G Jun 10 04:19 example
```

6. To Extract or Unzip the zip Archive:

unzip filename.zip

```
[root@localhost ~]# unzip files.zip
Archive: files.zip
replace kholi4? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
  extracting: kholi4
replace kholi5? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
  extracting: kholi5
```

Note: while compressing the file into zip it has the backup file also.

ls -lh - to list the file in human understandable file size

GZIP

1. To Gzip the file:

gzip filename

[root@localhost ~]# touch naveen
[root@localhost ~]# gzip naveen

```
-rw-r--r--. 1 root root 27 Jun 10 06:24 naveen.gz
```

Note: Here it gets compressed by removing the original file.

2. To keep the original file in gzip:

gzip -k filename

```
[root@localhost ~]# touch nabi
[root@localhost ~]# gzip -k nabi
```

Note: Here it gets compressed without removing the original file.

3. To extract the gzip:

gunzip filename.gz

[root@localhost ~]# gunzip dhoni1.gz

Note: Here while extracting the compress file get removed.

4. To keep the compress file while extracting:

gunzip -dk filename.gz

[root@localhost ~]# gunzip -dk naveen.gz

Note: Here while extracting the compress file get removed.

TAR

1. Creating a tar Archive File for multiple files:

tar cvf demo.tar file1 file2 file3 file4

- c Creates a new .tar archive file.
- $\boldsymbol{v}-\boldsymbol{Verbosely}$ show the .tar file progress.
- **f** Filename type of the archive file.

```
[root@localhost /]# tar cvf demo.tar siraj1 siraj2 siraj3 siraj4
siraj2
siraj3
siraj4
```

2. To list Content of tar Archive File created:

tar tvf demo.tar

3. To Extract or Untar the tar archive:

tar xvf demo.tar

```
[root@localhost /]# tar xvf demo.tar
siraj1
siraj2
siraj3
siraj4
```

4. Add Files or Directories to tar Archive File in Linux:

tar -rvf demo.tar file1 file2 file3

```
[root@localhost /]# tar -rvf demo.tar bumrah1 bumrah2 bumrah3
bumrah1
bumrah2
bumrah3
```

5. Remove File and Directory from Tar Archive:

tar -delete -f demo.tar file1 file2

6. To Create tar.gz Archive File in Linux :

tar cvzf example.tar.bz file1 file2

```
[root@localhost ~]# touch pandya{1..5}
[root@localhost ~]# tar cvzf example.tar.gz pandya{1..5}
pandya1
pandya2
pandya3
pandya4
pandya5
```

7. Create tar.bz2 Archive File in Linux :

tar cvjf example.tar.bz2 file1 file2

```
[root@localhost ~]# tar cvjf example.tar.bz2 pandya{1..5}
pandya1
pandya2
pandya3
pandya4
pandya5
```