* Archiving and Compression

1. Archiving -->it is the process of combining multiple files and directories

**tar** ---> tape archive

#**tar** <options> <compress-filename>.tar <files/dir to be compressed>

options

-c --> create an archive

-f -->file name

-v -->view/verbose

-t -->list the content from archieve

-x -->extract

-C -->copy content from an archieve to another directory

***#du -sh /etc ---check size of file/dir***

1. archiving using tar

***#tar -cvf /backup.tar /etc***

#du -sh /backup.tar

1. listing archiving file

#tar -tvf /backup.tar

1. extract archive files

***#tar -xvf /backup.tar*** ---extract at current location

***#tar -xvf /backup.tar -C /demo/*** ---extract at other dir

#du -sh /demo/etc

1. Compression -->it is the process of reducing the size of a file or directory

1. gzip >----fasssssssssssst [ gunzip ]

2. bzip2 >----slow [bunzip2]  
3. xz >---very slow [ unzip ]

#gzip -z <filename>.tar.gz

#bzip2 -j <filename>.tar.bzip2

#xz -J <filename>.tar.xz

Ex. #tar -cvf /backup.tar /etc

#du -sh /backup.tar

#gzip /backup.tar ---->compress backup.tar archive file using gzip

#du -sh /backup.tar.gz

#gunzip /backup.tar.gz ---->extract using gzip

-------------------------------------------------------------------------------------

1. Compression using tar command

#du -sh /etc

#tar -czvf /backup1.tar.gz /etc --->compress and archieve with gzip

extraction using tar command

#mkdir /backgz

#tar -xzvf /backup1.tar.gz -C /backgz ---->extract to other folder

-----------------------------------------------------------------------------------------