Managing Compressed tar Archives

File compression is a data compression method in which the logical size of a file is reduced to save disk space and distributing the folder in a single archive. It is less spam and used for easier and faster transmission over a network.

In Linux it's extensions are '.tar', '.gz', '.bz2' and '.xz'

To check the size of any directory of file.
du -sh
Note: -s = for directory
        -h = Human readable format

To archive a file.
tar –cvf 'archive-name' 'file-name or folder-name'
Note: -c = create a new archive   -v = verbose mode
        -f = file or archive   -x = extract the archive
        -z = gzip   -t = list the contents of an archive
        -j = filter the archive through bzip2   -J = filter the archive through xz
        -C = Change directory at the time of Extract

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Example: make a archive of '/etc' directory to /RND directory.
#tar -cvf /RND/test.tar /etc

To extract a archive a file.
tar –xvf 'archived-name'
i.e, #tar –xvf 'test.tar'
i.e, #tar –C /RND -xvf 'test.tar'   [Extract tar into /RND directory]

To compress a archive a file through 'Gzip' compression
tar –czvf 'archived-name' 'file-name or folder-name'
Or
gzip "archive.tar" (It can be done only when you have a .tar file, and in this case '.*tar*' file will be converted to '.*tar.gz*' extension)

To decompress "gzip" file
tar –xzvf 'archived-name'
i.e, #tar –xzvf 'test.tar.gz'
#tar –C /RND -xzvf 'test.tar'
Or
gunzip "archive.tar.gz" (It will extract *"file-name*

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To compress a archive a file through 'Bzip' compression
tar –cjvf 'archived-name' 'file-name or folder-name'
Or
bzip2 "archive.tar" (It can be done only when you have a .tar file, and in this case '.*tar*' file will be converted to '.*tar.bz2*' extension)

To decompress "bzip2" file
tar –xjvf 'archived-name'
Or
bunzip2 "archive.tar.bz2" (It will extract *"file-name.tar.bz2"* to *"File-name.tar"*)

To compress a archive a file through 'xz' compression
tar –cJvf 'archived-name' 'file-name or folder-name'
Or
xz "archive.tar" (It can be done only when you have a .tar file, and in this case '.*tar*' file will be converted to '.*tar.xz*' extension)

To decompress "xz" file
tar –xJvf 'archived-name'
Or
unxz "archive.tar.xz" (It will extract *"file-name.tar.xz"* to *"File-name.tar"*)

THANK YOU