Day - 7

Tar (Tape Archive)

Tar - Tape Archive

The tar command in linux is used to Archive (compress) and extra the Archived files.

-c = This creates an Archive file.

-x = extracts the archive file.

-f = specifies filename of Archieve files

-v = prints verbose information for any tar operation on the terminal.

-t = lists all files inside an archive file.

-u = Archives a file and then adds it to an existing archive file.

-r = updates a file or directory located inside a .tar file.

-z = creates a tar file using gzip compression.

-J = create an archive file using the bzip2 compression

-w = verifies an Archive file.

[root@iP-172-31-86-29 ~]# wget https://git.kernal.org/torvals/t/linux-6.11-rc5.tar.gz

:

linux -6.11-rc5. tar.gz

[root@iP-172-31-86-29 ~]# ls

linux -6.11-rc5. tar.gz

[root@iP-172-31-86-29 ~]# touch movie1 movie2 movie3

[root@iP-172-31-86-29 ~]# ls

linux--5.tar.gz   movie1 movie2 movie3

[root@iP-172-31-86-29 ~]# tar -cvf   moviecoll   movie1 movie2 movie3

movie1
movie2 } → it is display becaux of "v"
movie3

[root@iP-172-31-86-29 ~]# ls -l

..   linux--

-rw-r--r--   --   0   movie1
...   0   movie2
..   0   movie3
-rw-r--r--   ..   (10240)   moviecoll   → still size is very big, after compresion also.

[root@iP-172-31-86-29 ~]# tar -tvf moviecoll

-rw-r--r--.   --   0 ..   movie1
..   ..   0 ..   movie2
..   -   0 ..   movie3

[root@iP-172-31-86-29 ~]# ls

linux--   moviecoll movie1 movie2 movie3

[root@iP-172-31-86-29 ~]# rm movie1 movie2

rm: ...
y/n

[root@ip-172-31-86-29 ~]# ls

linux--tar.gz   movies   moviecall

[root@ip-172-31-86-29 ~]# tar -xvf moviecall

movie1
movie2
movie3

[root@ip-172-31-86-29 ~]# ls

linux--tar.gz   movie1   movies   movie3   moviecall

[root@ip-172-31-86-29 ~]# ls -l moviecall

-rw..   (1040)   ..   moviecall

[root@ip-172-31-86-29 ~]#

[∵ x- execute
   v- print
   r- file]

[∵ if we run this comand,
   will give all the files ins
   "moviecall"]

[∵ "movie3" is overwrited]

[∵ As we have seen earlier, the
   value is higher]

To <u>compress and extract in gzip format</u>:

   * tar -czvf filename.tar.gz filenames

   * tar -czvf filename.tar.gz foldername

   * tar -xzvf filename.tar.gz

[root@ip-172-31-86-29 ~]# mkdir marvel
[root@ip-172-31-86-29 ~]# cd marvel
[root@ip-172-31-86-29 marvel]# touch avengers deadpool ironman
[root@ip-172-31-86-29 marvel]# ls
  avengers deadpool ironman
[root@ip-172-31-86-29 marvel]# cd ..
-

```
[root@ip-172-31-86-29 ~]# ls -l

total 2

        linux..gz
        53              marvel
        o               movie1
        0               movie2
        0               movie3
        10240           moviecoll

[root@ip-172-31-86-29 ~]# tar -cvf marvels.tar marvel

marvel/
marvel/avengers
marvel/deadpool
marvel/ironman

[root@ip-172-31-86-29 ~]# ls -l

total

    . .     /       . .     linux.gz
                    53      marvel
                    10240   marvels.tar
                    o       movie1
                    o       movie2
                    o       movie3
                    10240   moviecoll

[root@ip-172-31-86-29 ~]# cd marvel

[root@ip-172-31-86-29 marvel]# rm *

    - .         `avenga' yes
    . .         `deadpool' yes
                `ironman' yes

[root@ip-172-31-86-29 marvel]# ls

[root@ip-172-31-86-29 marvel]# cd ..

[root@ip-172-31-86-29 ~]# ls -l marvel

    . .         6       . .     marvel

[root@ip-172-31-86-29 ~]# rmdir marvel

[root@ip-172-31-86-29 ~]# ls

linux...gz  marvels.tar  movie1 movie2 movie3 moviecoll
```

```
[root@ip-172-31-86-29 ~]# tar -xvf marvels.tar
marvel/
marvel/avengers
marvel/deadpool
marvel/ironman

[root@ip-172-31-86-29 ~]# ls
linux..92  marvel  marvels.tar  movie1  movie2  movie3  moviecoll

[root@ip-172-31-86-29 ~]# ls -l
total ..

..             2..     linux.g
               53      marvel
               10240   marvels.tar
               0       movie1
               0       movie2
               0       movie3
               10240   moviecoll

[root@ip-172-31-86-29 ~]# cd marvel

[root@ip-172-31-86-29 marvel]# ls
avengers  deadpool  ironman

[root@ip-172-31-86-29 marvel]# cd ..

[root@ip-172-31-86-29 ~]# ls -l marvels.tar
..             10240   marvels.tar

[root@ip-172-31-86-29 ~]# tar -czvf marvels1.tar.gz marvels.tar
marvels.tar

[root@ip-172-31-86-29 ~]# ls -l
..             ..     linux.92
               53      marvel
               45      marvels.tar
               168     marvels.tar.gz
               0       movie1
               0       movie2
               0       movie3
               10240   moviecoll
```

[∴ we created `marvels.tar` and deleted the older folder `marvel` and then `executed` the `marvels.tar` and got the `marvel` folder and the file inside that]

[∴ But one thing is our `marvels.tar` file size is so big]

[∴ finally `marvels.tar` file size got smaller]