Sos in Computer Science And Applications

PGDCA 205 Introduction To Linux

Topic Unit-2 : 1.Connecting processes with pipes

2.Tee command

Submitted By :

Navneet Gupta

Connecting processes with pipes

- A pipe is a form of redirection (transfer of standard output to some other destination) that is used in Linux and other Unix-like operating systems to send the output of one command/ program/ process to another command/program/process for further processing.

- The Unix/Linux systems allow stdout of a command to be connected to stdin of another command. You can make it do so by using the pipe character '|'.

Connecting processes with pipes

- Pipe is used to combine two or more commands, and in this, the output of one command acts as input to another command, and this command's output may act as input to the next command and so on.

- It can also be visualized as a temporary connection between two or more commands/ programs/ processes. The command line programs that do the further processing are referred to as filters.

Connecting processes with pipes

- Syntex:

command_1 | command_2 | ......| command_N

Example :

1. Listing all files and directories and give it as input to more command.

$ ls -l | more

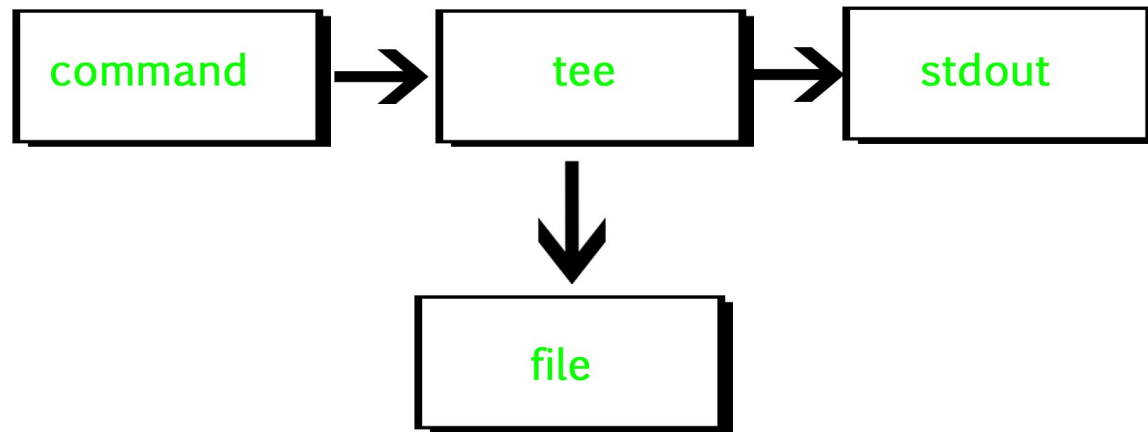# Output : $ ls -l | more

Tee command:

- tee command reads the standard input and writes it to both the standard output and one or more files. The command is named after the T-splitter used in plumbing. It basically breaks the output of a program so that it can be both displayed and saved in a file.

- It does both the tasks simultaneously, copies the result into the specified files or variables and also display the result.

Tee command:

- SYNTEX:

tee [OPTION]... [FILE]...

Tee command:

- Options :

  1.-a Option : It basically do not overwrite the file but append to the given file.

  Suppose we have file1.txt

- Input: geek

  for

  geeks

- and file2.txt

  Input:geeks

  for

  geeks

$ wc -l file1.txt | tee -a file2.txt

- OUTPUT :

    3 file1.txt

- $ cat file2.txt

OUTPUT:

    geeks

    for

    geeks

    3 file1.txt