LINUX FILTER COMMANDS

A filter is a small and specialized program in Linux operating system to get the meaningful input from the user.

- 1. To display the content of a file in ascending order: sort file name
- 2. To display the content of a file in descending order: sort -r file name
- 3. To display the no of lines from top to bottom: head -n file name head -n file_name
 ex: head -3 file_name

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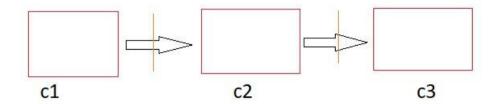
4. To display the no of lines from bottom to top: tail -n file_name

ex: tail -4 file name

- 5. To display the unique content without duplicates: uniq file name
- 6. To count no of duplicates in the file: uniq -c file_name
- 7. To display the duplicates in the file: uniq -d file_name
- 8. To count the words present in the file: wc file name

PIPING

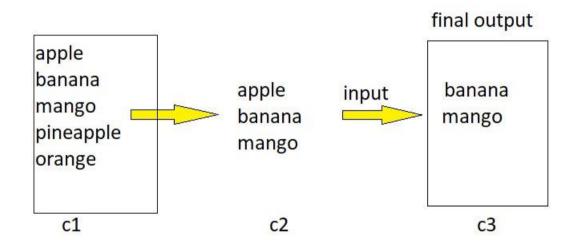
Redirecting the output of a particular command as an input for next command.



Symbol:

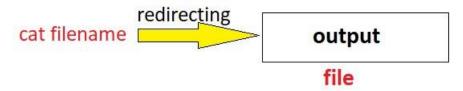
Example: cat filename | head -3 |





LINUX I/O REDIRECTION

Redirection is a process where we can copy the output of any command into a new file.



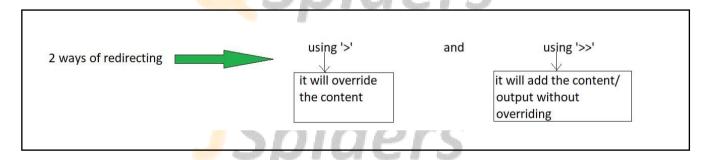
Types of redirection:

- 1.Input Redirection
- 2. Output Redirection
- 3.Error Redirection

Two ways of Redirecting

1.single bracket '>'

2.double bracket '>>'



1.Input redirection: By default commands will be executed in the input redirection mode.

syntax: command < filename</pre>

2.Output redirection: Redirecting the output of a command to a separate file.

syntax: command > filename or command >> filename

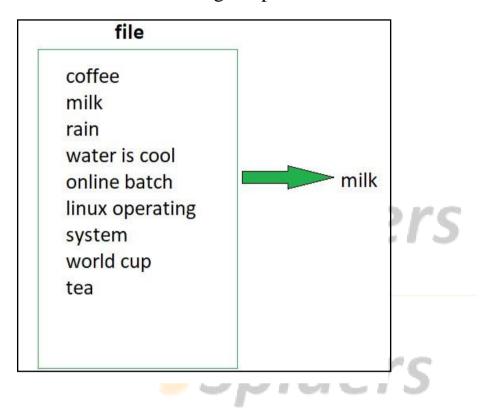
3.Error redirection: Redirecting the error of a command to a

separate file

Syntax: command &> filename

LINUX REGEX [REGULAR EXPRESSION

Regular expressions are set of special characters that help us to search for data and for matching the pattern.



COMMANDS:

1.grep: grep is used to search for a character or matching word or pattern or string in a particular file.

syntax: grep pattern filename

-Concatenating the characters: searching for combination of 2 characters.

syntax: grep ab filename

-One or the other: If we are giving 2 characters as input, if one character present the output should be displayed.

syntax: grep -E 'a|b' filename

-match end string: searching for last word or character of a line.

syntax: grep a\$ filename

-match start of string: searching for first word of a line.

syntax: grep ^a filename

2. sed [stream editor]: sed is a text stream editor to edit quickly and efficiently.

syntax: sed -i 's/old content/ new content/' filename

LINUX NETWORKING

Every computer is connected to some other computer through a network whether internally or externally to exchange some information. This network can be small as some computers connected in your home or office.

Maintaining a system's network is a task of System/Network administrator. Their task includes network configuration and troubleshooting.

Commands for networking and troubleshooting

1.ifconfig: Display network interfaces

2.ping: To check the connectivity

3.netstat: Display the network connection information

4.host: To convert ip address into domain name and domain name

into ip address

syntax: host domain name

5.hostname: To display the network name



JSpiders