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Notes 6

Commands

awk

awk is a powerful text processing tool used for pattern scanning and processing. It operates on text files, processing the file line by line.

- Usage: awk [options] 'pattern { action }' file
- Examples:
 - awk -F',' '{print \$1, \$3}' data.csv: Prints specific columns from a csv file.
 - awk '/pattern/' file.txt: Searcghes for line containing a specific pattern and prints them.
 - awk '{ sum += \$1 } END { print sum }' numbers.txt: Sums the values of a specific column.

sed

sed (stream editor) is a powerful text stream editor used to perform basic text transformations on an input stream (a file or input from a pipeline).

- Usage: sed [options] 'command' file
- Examples:
 - sed 's/old text/new text/g' file.txt: Replaces text in a file.
 - sed -n '5,10p' file.txt: Prints specific lines from a file.
 - sed '/pattern/d' file.txt: Deletes lines matching a pattern.

less

less is a command-line utility that allows viewing text files one page at a time in a terminal. It provides navigation and search functionalities.

- Usage: less [options] file
- Examples:
 - less file.txt: Views contents of a file.
 - less +G -N server.log: Views the last 100 lines of the file.

alias

alias is a command in Unix/Linux operating systems that allows users to create shortcuts (aliases) for other commands or command sequences.

- alias alias name='command'
- Examples:
 - alias 11='1s -1': Creates an alias for a long command.

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- alias lla='ls -la': Creates an alias with options.
- 11 Uses an alias to execute a command with specific options.

Operators

>

The > operator is used to redirect the output of a command to a file, creating the file if it doesn't exist or overwriting its contents if it does.

- Usage: command > file
- Examples:
 - ls > list.txt: Redirects the output of a command to a file.
 - echo "Hello, World!" > greeting.txt: Creates a new file with specific content.

>>

The >> operator is used to append the output of a command to the end of a file, creating the file if it doesn't exist.

- Usage: command >> file
- Examples:
 - date >> log.txt: Appends the output of a command to a file.
 - (command1; command2) >> file.txt: Appends multiple command outputs t a file.

The | (pipe) operator is used to chain commands together, where the output of one command becomes the input of the next command.

- Usage: command1 | command2
- Examples:
 - 1s -1 | grep "pattern": Filters the output of one command through another.
 - \circ 1s -1 | wc -1: Counts the number of lines in the output of a command.