notes8.md 2024-11-20

Notes 8

AWK Command

Definition: is a powerful programming language and command-line utility for text processing and data extraction. It is used primarily for pattern scanning and processing. Usage/Formula: awk 'pattern {action }' input_file Examples:

- 1. awk -F, '{print \$1}' file.csv
- 2. awk '{sum += \$1} END {print sum}' numbers.txt
- 3. awk '/pattern/' file.txt

SED Command

Definition: sed(stream editor) is a non-interactive command-line utility for parsing and transforming text. It is commonly used for text substitution, deletion, and insertion. Usage/Formula: sed 's/pattern/replacement/flags' input_file Examples:

- 1. sed 's/foo/bar/g' file.txt
- 2. sed '/pattern/d' file.txt
- 3. sed '/pattern/a\New line of text' file.txt

Less Command

Definition: is a command-line utility for viewing the content of a file one screen at a time. It allows for forward and backward navigation through the file. Usage/Formula: less file Examples:

- 1. less file.txt
- 2. less file.txt
- 3. less file1.txt file2.txt

Redirection and Pipes

Definition: The > operator redirects the output of a command to a file, overwriting the file if it already exists. Usage/Formula: command > file Examples:

- 1. echo "Hello,world!" > greeting.txt
- 2. ls > file list.txt

Append

Definition: The >> operator appends the output of a command to the end of a file without overwriting the existing content. Usage/Formula: command >> file Examples:

- 1. echo "Additional line" >> file.txt
- 2. ls >> file list.txt

Pipe

notes8.md 2024-11-20

Definition: The | operator (pipe) passes the output of one command as input to another command. Usage/Formula: command1 | command2 Examples:

- 1. ls | grep 'pattern'
- 2. ps aux | grep 'process_name'
- 3. ls | wc -l