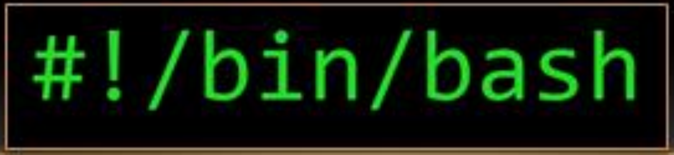
Bash Shell Scripting

awk command

Part-1



```
#!/bin/bash
```

Learn how to automate common tasks using bash shell scripting

awk command:

- The awk command is a powerful method for processing or analyzing text or data files , which are organized by lines (rows or records) and columns(fileds).
- we can use awk as a linux command and also as a scripting language like bash shell scripting.
- Simple awk command syntax:
  - awk [options] ‘[selection _criteria] {action }' input-file
  - cat input-file | awk [options] ‘[selection _criteria] {action }' input-file
  - Awk can take the following options:

    -F fs To specify a field separator. (Default separator is tab and space)

    -f file To specify a file that contains awk script.

    -v var=value To declare a variable.
  - Selection criteria: pattern/condition
  - Action: It is a logic to perform action on each row/record

awk command:

- Simple awk command syntax:
    - awk ' {action }' input-file
    - Action: Action is a logic to perform action on each record.
    - Example: print $1   print first filed from each line
    - Some of the default variables for awk:
        - $0 → Entire file
        - $1 → First field from each line/record
        - $2 → Second field from each line/record
        - NR → It will print line or record number
        - NF → It will print number of filed from each line/record

Thank you

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    - $1 → First field from each line/record
    - $2 → Second field from each line/record
    - NR → It will print line or record number
    - NF → It will print number of filed from each line/record
    - OFS → Output field separator
    - ORS → Output record separator
    - FS → Input filed Separator

Use BEGIN Block

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awk command:

- The awk command is a powerful method for processing or analyzing text or data files , which are organized by lines (rows or records) and columns(fileds).
- Simple awk commands can be run from the command line. More complex tasks should be written as awk programs (so-called awk scripts) to a file.
- So, we can use awk as a linux command and also as a scripting language like bash shell scripting.
- Ex for u: httpd -v | awk -F '[/]' '/version/ {print $4 }‘
- httpd -v | awk -F "[/]" 'NR==1{print $4}‘
- Simple awk command syntax:
  - awk options 'selection _criteria {action }' input-file
  - Awk can take the following options:

    -F fs To specify a field separator.

    -f file To specify a file that contains awk script.

    -v var=value To declare a variable.