Notes 3: Bash Shell

echo

Definition:

Display's a line of text

Usage:

`echo` + `option` + `string`

Examples:

- Display a line of text without a new line
    - `echo -n "hello world"`
- Display a line of text that includes a horizontal tab
    - `echo -e "\thello world"`
- Display 2 lines of text in a single echo command
    - `echo -n "Line 1\nLine2"`

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date

Definition:

Print or set the system date and time

Usage:

`date` + `option`

Examples:

- Display current date
    - `date`
- Display current date in rfc 5322 format
    - `date -r`
- Display current date in UTC
    - `date -u`

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free

Definition:

Display amount of free and used memory in the system

Usage:

`free` + `option`

Examples:

- Display memory utilization
  - `free`
- Display memory utilization in human readable format
  - `free -h`
- Display memory utilization in MB
  - `free -m`

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uname

Definition:

Print system information

Usage:

`uname` + `option`

Examples:

- Print all information
  - `uname -a`
- Print node name
  - `uname -n`
- Print kernel information
  - `uname -n`

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history

Definition:

Print command line history

Usage:

`history` + `option`

Examples:

- Display session history
  - `history`
- Clear session history
  - `history -c`
- Display only the last 5 entries in session history
  - `history 5`

man

Definition:

An interface to the system reference manuals

Usage:

`man` + `option`

Examples:

- Open the man page of echo command
    - `man echo`
- Opens a specific man page
    - `man 5 passwd`
- Shows all available man pages
    - `man -f passwd`

apt

Definition:

A set of tools for managing debian packages

Usage:

`sudo`(if applicable) + `apt` + `apt action` + `package name`

Examples:

- Update and upgrade
    - `sudo apt update && sudo apt upgrade -y`
- Install a program
    - `sudo apt install firefox`
- Remove a program
    - `sudo apt remove firefox`

snap

Definition:

App packages for desktop,cloud and IoT that are easy to install, cross platform and dependency free

Usage:

`sudo`(if applicable) + `snap` + `action` + `package name`

Examples:

- Find a snap
    - `snap search "video player"`
- Install a snap
    - `sudo snap install vlc`
- Remove a snap
    - `sudo snap remove vlc`

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flatpak

Definition:

A next generation technology for packaging, distributing, and managing software in Linux

Usage:

`sudo`(if applicable) + `flatpak` + `action` + `package id`

Examples:

- Search for package
    - `flatpak search "video player"`
- Install package
    - `flatpak install org.videolan.VLC`
- Remove flatpak
    - `flatpak remove org.videolan.VLC`