Notes Week 3

Commands covered in lecture:

echo

- **Definition: Display a line of text**

- **Usage: `echo` + `option` + `string`**

- **Examples:**

    - Display a line of text without the 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 -e "Line 1\nLine 2"`
    - Display 2 lines of text in a single echo command, with the second line starting with a tab
        - `echo -e "Line 1\n\tLine 2"`
    - Display 2 lines of text in a single echo command that starts with a tab
        - `echo -e "\tLine 1\nLine 2"`

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date

- **Definition: Print or set the system date and time**

- **Usage: `data` + `option`**

- **Examples:**

    - Display current date
        - `date`
    - Display current date in rfc 5322 format
        - `date -R`

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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`

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uname

- **Definition: Print system information**

- **Usage:** `uname` + `option`

- **Examples:**

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

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history

- **Definition: Shows command line history**

- **Usage:** `history` + `option`

- **Examples:**

  - Display session history
    - - `history`
  - Clear session history
    - - `history -c`

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man

- **Definition: An interface to the system reference manuals**

- **Usage:** `man` + `option` + `command`

- **Examples:**

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

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apt

- **Definition: A set of tools for managing debian packages**

- **Usage: `sudo` (if required) + `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 app remove firefox`
- Search for a program
    - `apt search "Web Browser"`
- List all installed programs
    - `apt list --installed`

snap

- **Definition: Snaps are app packages for desktop, cloud and IoT that are easy to install, cross platform and dependency free**

- **Usage: `sudo`(if needed) + `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`
- Update Snaps
    - `sudo snap refresh`

flatpak

- **Definition: Flatpak is a next generation technology for packaging, distributing, and managing software in Linux**

- **Usage: `sudo`(if needed) + `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`

- Search for package
    - `flatpak search "video player"`

- Install package

    - `flatpak install org.videolan.VLC`

- Remove flatpak

    - `flatpak remove org.videolan.VLC`