

Notes 3

Commands covered in lecture:

Echo

Definition:

Displays a line of any text written.

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 -e "Line1\nLine2"`
 - Display 2 lines of text in a single command, with the second line starting with a tab:
 - `echo -e "Line1\tLine2"`
 - Display 2 lines of text in a single echo command that starts with a tab:
 - `echo -e "\tLine1\tLine2"`
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Date

Definition:

Displays the current date and time.

Usage:

`date + option`

Examples:

- Displays the current date and time:
 - `date`
 - Displays the date in a custom format:
 - `date +%Y-%m-%d %H:%M:%S"`
 - Displays the date and time from a specific time in the past:
 - `date -d "3 years ago"`
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Free

Definition:

Displays the amount of free memory.

Usage:

`free + option`

Examples:

- Display memory utilization:
 - `free`
 - Display memory utilization in human readable format:
 - `free -h`
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uname

Definition:

Prints system information.

Usage:

`usage + option`

Examples:

- Prints all information:
 - `uname -a`
 - Prints kernel information:
 - `uname -s`
 - Prints node name:
 - `uname -n`
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history

Definition:

Shows command line history.

Usage:

`history + option`

Examples:

- Displays session history:
 - `history`
- Clears 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`
 - Shows 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`

Examples:

- Update and Upgrade:
 - `sudo apt update && sudo apt upgrade -y`
 - Install a program:
 - `sudo apt install (program name)`
 - Remove a program:
 - `sudo apt remove (program name)`
 - Search for a program:
 - `apt search "web browser"`
 - List all installed programs:
 - `apt list --installed`
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Snap

Definition:

Snaps are app packages for desktop, clouds 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`
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Flatpak

Definition:

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 package:
 - `flatpak remove org.videolan.VLC`
 - Update packages:
 - `flatpak update`
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