

Notes 1: Bash Shell

Commands cover 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\nLine2"`
 - 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\tLine 2"`
-

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`
-

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`
-

uname

Definition

print system information

usage

`uname + option`

Examples

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

history

Definition

man

Definition

shows command line history

usage

`history + option`

Examples

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

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`
-

apt

Definition

A set of tools for managing debian packages

usage

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

Example

- update and upgrade
 - `sudo apt update`
 - install program
 - `sudo apt install firefox`
 - remove program
 - `sudo apt remove firefox`
-

snap

Definition

Snaps are app packages for desktop, cloud and IoT that are easy to install, cross platform and dependency

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`
-

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`
- Update packages
 - `flatpak update`