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`
- Sets the time described by the string
  - `date -s`

free

Definition

Displays the amount of free memory left on the system

Usage

`free` **+** `option`

Examples

- Displays the amount of memory in bytes
    - `free -b`
- Displays the amount of memory in kibibytes
    - `free -k`
- Displays all output fields automatically scaled to the three shortest digits
    - `free -h`

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uname

Definition

Displays information about your system

Usage

`uname` **+** `option`

Examples

- Displays all information about the system
    - `uname -a`
- Displays the kernel name
    - `uname -s`
- Prints the network node hostname
    - `uname -n`

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history

Definition

Displays shell command history

Usage

`history` **+** `option`

Examples

- Clears the command history

- - `history -c`
- Starts a history substitution, except when followed by a blank
  - `!`
- Removes a trailing file name components, only leaving the head
  - `h`

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man

Definition

A reference to the system reference manuals

Usage

`man` + `man option` + `section page`

Examples

- Displays the manual for the item (program)
  - `man -ls`
- Displays the manual page for macro package man
  - `man -man.7`
- Displays all of the intro manual pages contained within a manual
  - `man -a intro`

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apt

Definition

Provides a high-level command line interface

Usage

`apt` + `command` + `option`

Examples

- Configurates a string
  - `apt -o`
- Configurates files
  - `apt -c`
- Releases target
  - `apt -t`

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snap

Definition

Packages that work across many different Linux distributions, enabling secure delivery and operation of your latest apps.

Usage

`snap` + `options`

Examples

- Aborts a pending change
  - `abort`
- Adds an assertion to the system
  - `ack`
- Sets up a manual alias
  - `alias`

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flatpak

Definition

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

Usage

`sudo` (When needed) + `flatpak` + `action` + `package id`

Example

- Shows help options and exit
  - `flatpak -h`
- Shows debug information during command processing
  - `flatpak -v`
- Shows OSTree debug information during command processing
  - `flatpak --ostree-verbose`