

Module 1 Cheat Sheet - Introduction to Linux

Linux terminal tips

Use **tab completion** to autocomplete pathnames and command names.

Scroll through your **command history** with the Up Arrow and Down Arrow keys to find and re-run a command you already used.

Getting information

Display the reference manual for the `ls` command:

- 1
1. `man ls`

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Browsing and navigating directories

Special paths

Symbol	Represents path to
<code>~</code>	home directory
<code>/</code>	root directory
<code>.</code>	present working directory
<code>..</code>	parent of present working directory

List files and directories in the current directory:

- 1
1. `ls`

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List files and directories in a directory:

- 1
1. `ls path_to_directory`

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Return path to present working directory:

- 1
1. `pwd`

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Change the current directory to a subdirectory:

- 1
1. `cd child_directory_name`

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Tip: Because `cd` looks in the current directory for `child_directory_name`, you don't need to type the entire path.

Change the current directory:

Up one level: `cd ../`

To home: `cd ~` or `cd`

To some other directory: `cd path_to_directory`

Change the current directory to another one at the same level:

Suppose you have two sibling directories within the same directory, `dir_1` and `dir_2`, and your present working directory is `dir_1`. To switch to `dir_2`, enter:

```
cd ../dir_2
```

Tip: Using `..`, you don't need to know the path to the parent directory to switch to a sibling.

Change the current directory back to the directory you were in previously:

```
cd -
```

Upgrading and installing packages

Fetch and display up-to-date information about all upgradable packages:

- 1. 1
- 1. `sudo apt update`

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Upgrade to the latest supported version of nano:

- 1. 1
- 1. `sudo apt upgrade nano`

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Install Vim:

- 1. 1
- 1. `sudo apt install vim`

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Creating and editing files

Create a new text file and open it with nano:

- 1. 1
- 1. `nano file_name.txt`

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Tip: If the file already exists, nano simply opens it for editing.

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Change Log

Date (YYYY-MM-DD)	Version	Changed By	Change Description
2023-05-04	1.5	Benny Li	Added text blocks
2023-04-26	1.4	Nick Yi	QA pass
2023-03-30	1.3	Nick Yi	ID review
2023-02-14	1.2	Jeff Grossman	Update to reflect module content
2022-12-19	1.1	Jeff Grossman	Created initial version of the reading

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