# 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:**

```
man ls
```

## Browsing and navigating directories

### Special paths

| Symbol | Represents path to |
|--------|--------------------|
| ~ | home directory |
| / | root directory |
| . | present working directory |
| .. | parent of present working directory |

**List files and directories in the current directory:**

```
ls
```

**List files and directories in a directory:**

```
ls path_to_directory
```

**Return path to present working directory:**

```
pwd
```

**Change the current directory to a subdirectory:**

```
cd child_directory_name
```

**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

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

```
sudo apt update
```

**Upgrade to the latest supported version of nano:**

```
sudo apt upgrade nano
```

**Install Vim:**

```
sudo apt install vim
```

**Creating and editing files**

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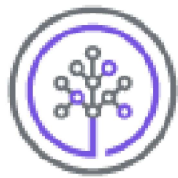**Create a new text file and open it with nano:**

```
nano file_name.txt
```

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

# Authors

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## Other Contributors

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