Linux Basics
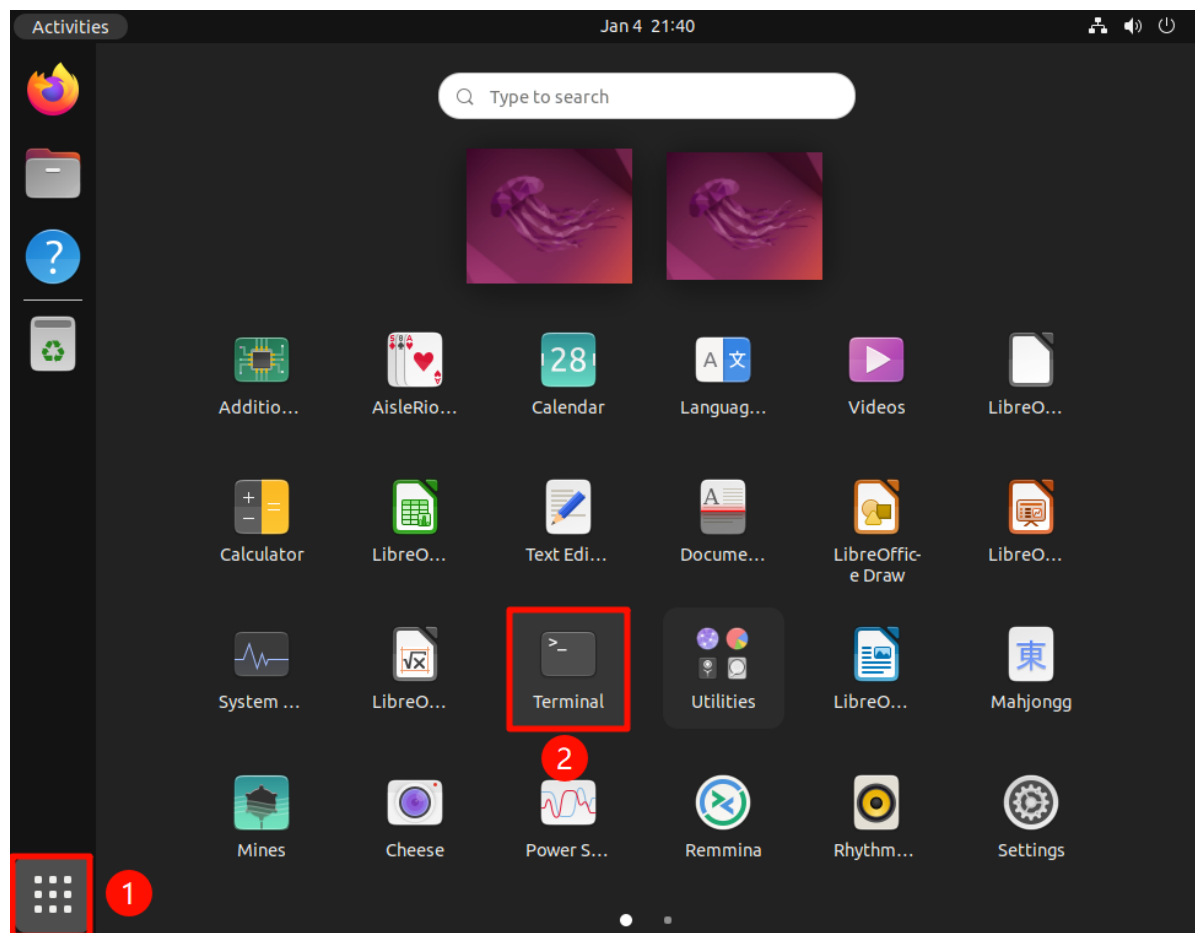
1. Terminal
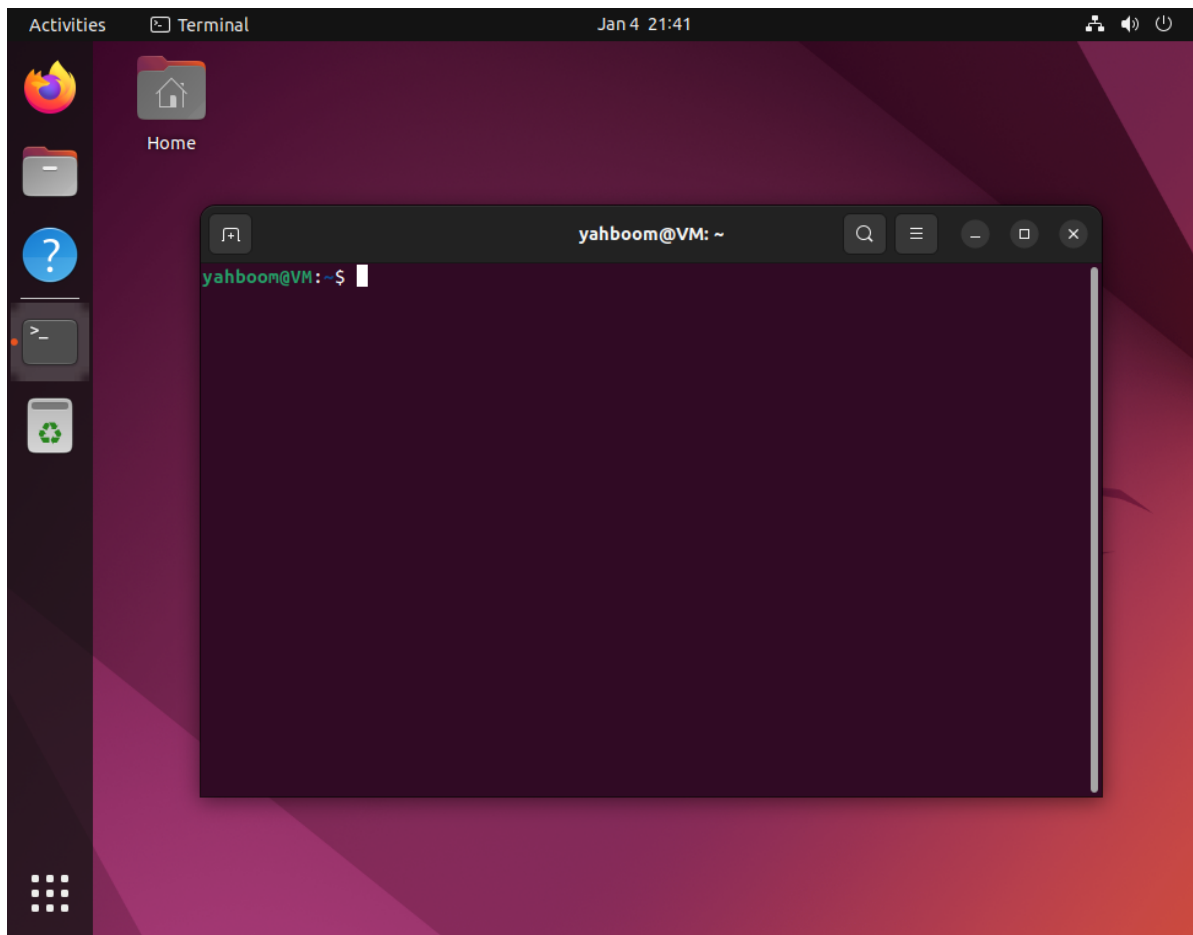
Terminal is a command line interface used to interact with the operating system.

1.1. Open the terminal

In Ubuntu, you can open it by using the shortcut keys `Ctrl + Alt + T` or by finding the terminal in the application menu:

1.2. Basic commands

View the current directory

Display the full path of the current working directory:

```
pwd
```

List files/directories

List files and subdirectories in the current directory:

```
ls
```

Create a new directory

Create the `File_demo` directory:

```
mkdir File_demo
```

Change directory

Enter `File_demo` directory:

```
cd File_demo
```

Return to parent directory

```
cd ..
```

Create new file

Create `Version.txt` file:

```
touch Version.txt
```

Modify file

Add `System Information` to `Version.txt` file:

```
echo "System Information" >> Version.txt
```
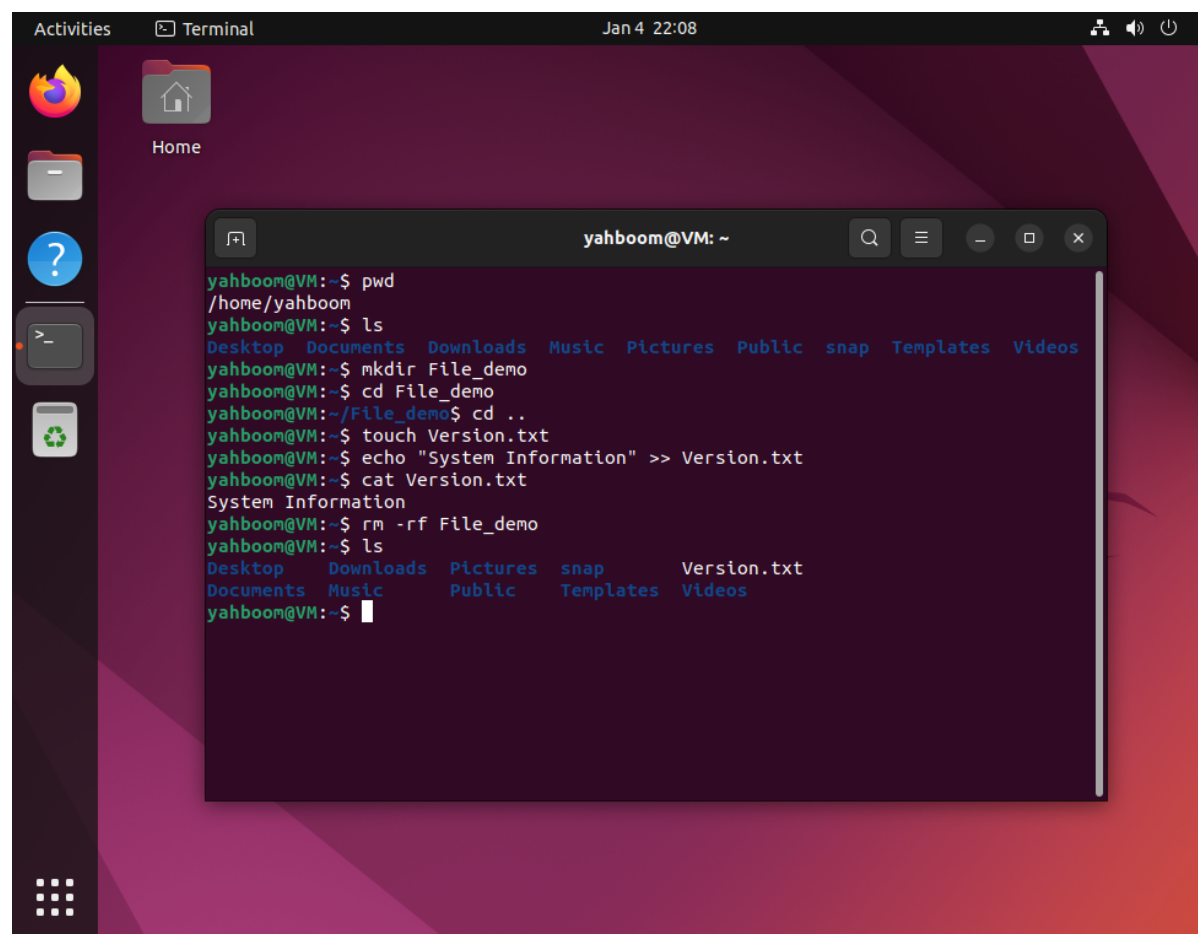
View file

View `Version.txt` file content:

```
cat Version.txt
```

Delete directory

Delete `File_demo` directory:

```
rm -rf File_demo
```

1.3. Shortcut keys

> **Ctrl + C**

Terminate the currently running command

> **Ctrl + Z**

Suspend the current process

> **Tab**

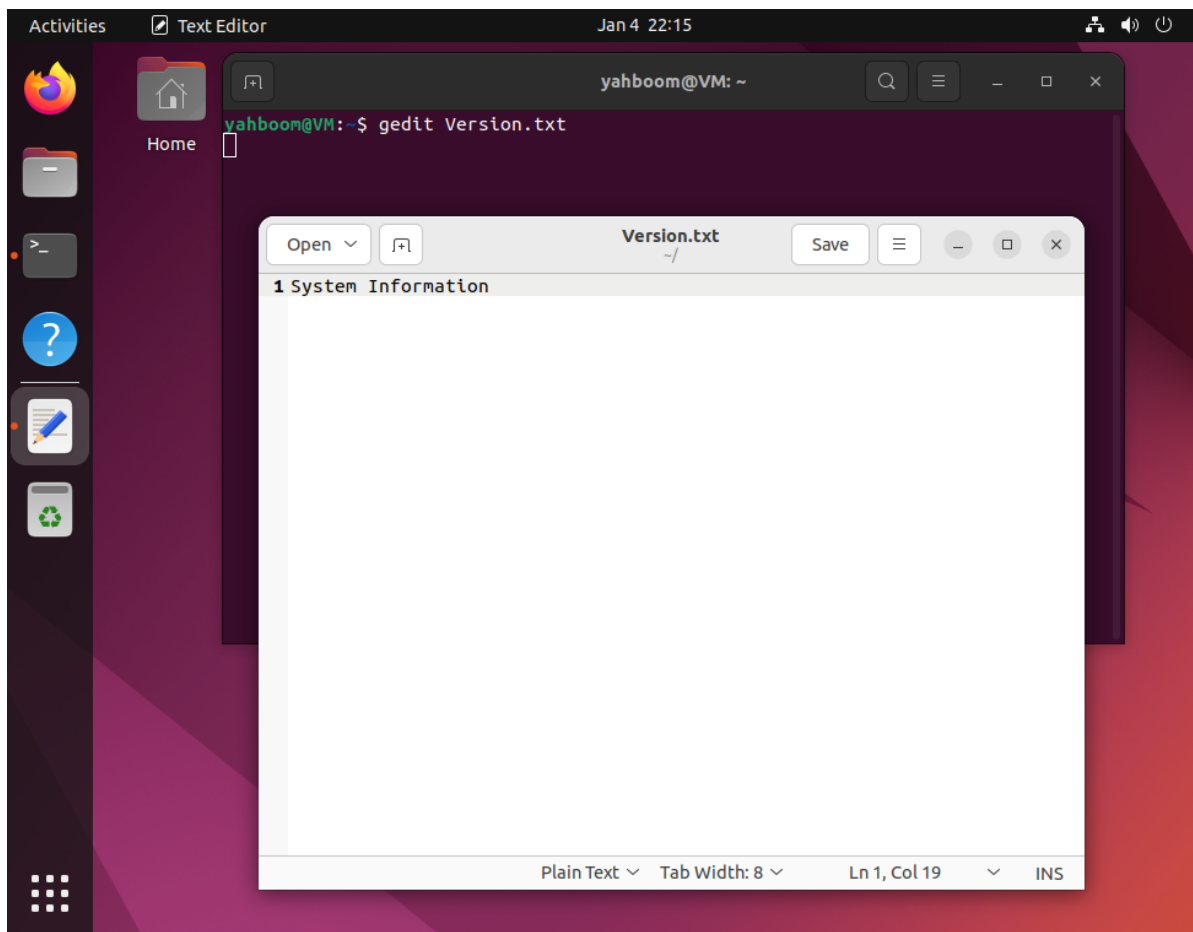Automatically complete the file name or command

2. Text editor

2.1. Gedit (Easy)

The default text editor in the GNOME desktop environment, with a graphical user interface (GUI).

> **Open file**

```
gedit Version.txt
```


2.2, Nano (Medium)

Simple and easy-to-use command line text editor, suitable for beginners.

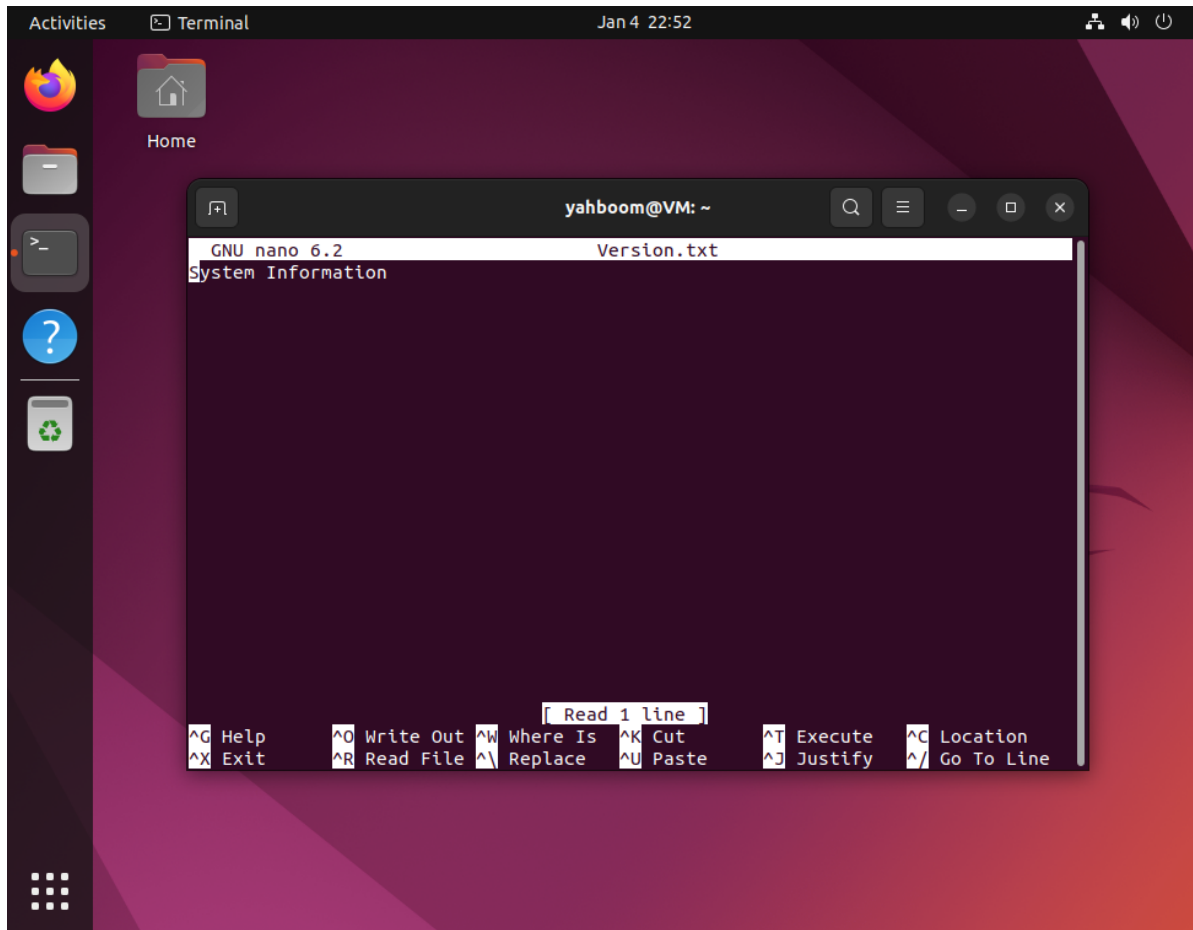> **Install**

```
sudo apt update
sudo apt install nano -y
```

> **Open file**

```
nano Version.txt
```

`Ctrl + X` : Exit (if there are unsaved changes, you will be prompted to save)

`Ctrl + U` : Paste clipboard contents

`Ctrl + W` : Search text

2.3, Vi/Vim (difficult)

Vim is an enhanced version of Vi editor, suitable for almost all Unix and Linux systems.

> **Open file**

```
vi Version.txt
```

> **Mode**

Command mode: default state

Insert mode: press `i` to enter, press `ESC` to exit command mode

Last line mode: enter `:` in command mode, press `ESC` to exit command mode

> **Save/Exit**

Last line mode

`:w` : Save file

`:q` : Exit

`:wq` : Save and exit

`:q!` : Force exit without saving