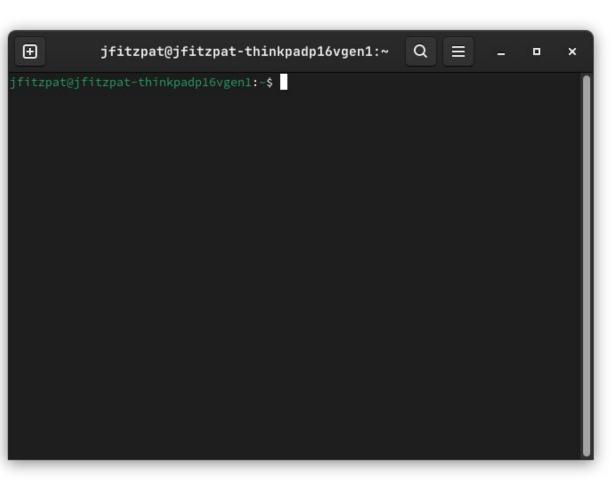


Introduction to the Terminal

The black window with a blinking cursor

Introduction to the Terminal



- What is the terminal
- Launching the terminal
- What is a command
- Installing an application (Intro to sudo)
- Run the application



What is the Terminal?



What is the Terminal?

The Terminal is a text based interface to the operating system. It has a number of advantages over a graphical user interface.

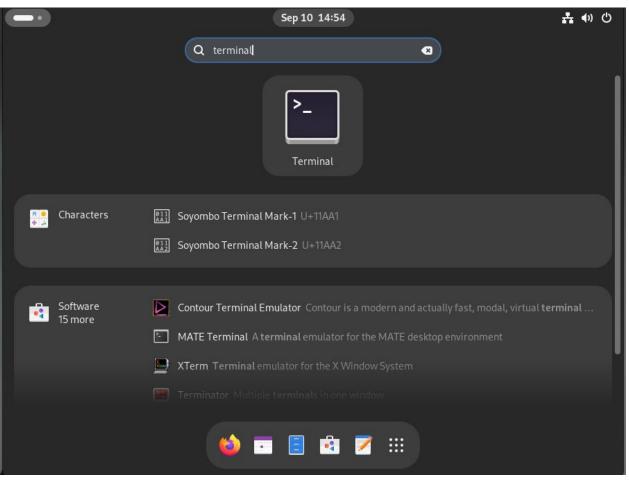
- Quick access to a wide range of applications
- Complex actions can be done in a small number of steps
- History and shareability
- Chainability
- It is your space



Launching the terminal



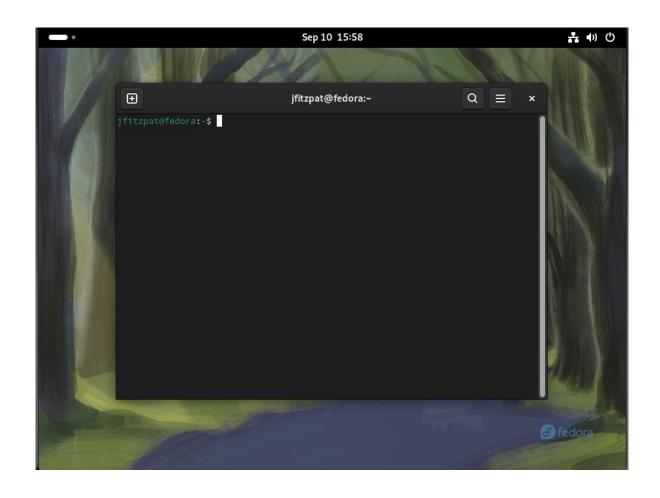
Launching the terminal



- Open the applications menu with the windows key or by the pager in the top left of the screen
- Search for "terminal"
- Select the "terminal" to launch it.



Launching the terminal





What is a command



What is a command

The command is a general term for the action that you wish the terminal to perform. A command can be simple or more complex with the use of flags and arguments.

firefox --new-window www.redhat.com



firefox --new-window www.redhat.com



The first component, "firefox", is the command to run. The command can be an application or an alias.



Flags come after the the command. These will have one or two dashes "-" in front. For single dashes normal it is a one letter flag and two dashes are in front of a word. "--new-window" is the flag in the example. You can use many flags at one time.



Arguments are text added to the command or flags. In this case it is the Red Hat url for the --new-window flag. An argument must contain no space or not it is two arguments. Putting string in quotes is one way to allow spaces in the argument.



Installing an application



Installing an application

Installing applications from the terminal requires the use of a package manager. For this we use dnf. There are three commands that we will look at.

- dnf search
- dnf install
- dnf remove



Searching for applications

```
jfitzpat@fedora:~$ dnf search cowsay
Copr repo for PyCharm owned by phracek
                                       13 kB/s | 2.9 kB
                                                        00:00
Fedora 40 - x86_64
                                      8.7 MB/s |
                                                20 MB
                                                        00:02
Fedora 40 openh264 (From Cisco) - x86_64
                                      2.1 kB/s | 1.4 kB
                                                        00:00
Fedora 40 - x86_64 - Updates
                                      7.5 MB/s | 9.9 MB
                                                        00:01
google-chrome
                                                        00:00
                                       11 kB/s | 1.8 kB
RPM Fusion for Fedora 40 - Nonfree - NVIDIA Dri 6.9 kB/s | 4.9 kB
                                                        00:00
RPM Fusion for Fedora 40 - Nonfree - Steam
                                      2.4 kB/s | 1.5 kB
                                                        00:00
cowsay.noarch : Configurable speaking/thinking cow
============== Name & Summary Matched: cowsay =====================
cowsay-beefymiracle.noarch : Cowsay file for the Beefy Miracle
xcowsay.x86_64 : Displays a cute cow and message on your desktop
jfitzpat@fedora:~$
```

dnf search < APPLICATION >

Running the command show a list of applications that match for the search.



Elephant in the room sudo

Sudo is an administrative command that is used to allow your user do more in the system. Caution should be taken when using sudo. With great power comes great responsibility.

- Gives elevated permissions
- Temporary permissions, per command
- Requires a password



Install an application

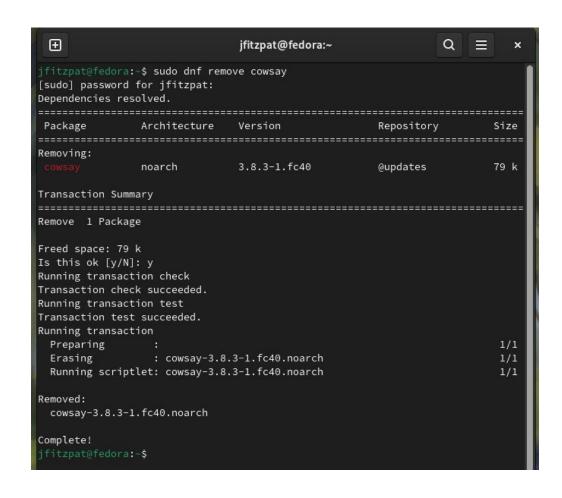


sudo dnf install <APPLICATION>

- sudo allows increased permission
- The <APPLICATION> name must be a full match
- Need to confirm the install



Removing an application



sudo dnf remove <APPLICATION>

- sudo allows increased permission
- The <APPLICATION> name must be a full match
- Need to confirm the install



Running the application



Running the application

cowsay <INPUT>

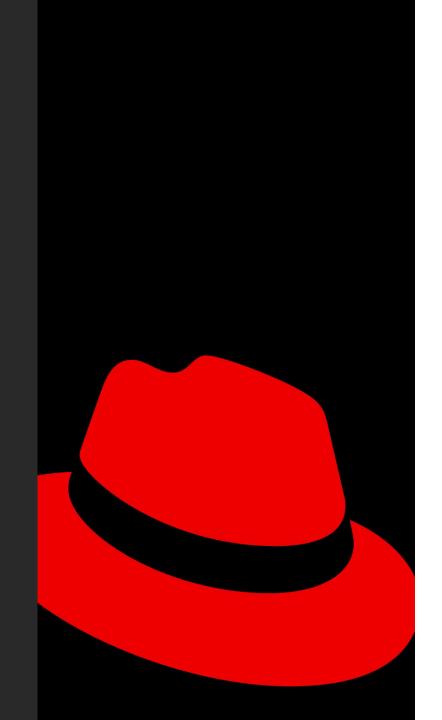
- Dnf is also an application
- All applications are launched in the same way
- Learning the commands of an application takes time and tools like help and man can be used



Recap

- What is the terminal
- Launching the terminal
- What is a command
- Installing an application (Intro to sudo)
- Run the application





Thank you

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.

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