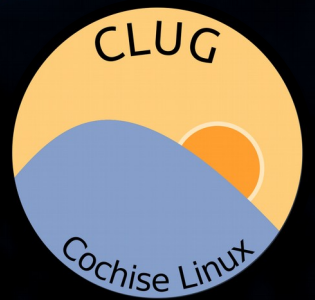


CLUG

Cochise Linux User Group

Get to know your command line!
By: Paul Bernard

CochiseLinuxUsersGroup.github.io



What is the Command Line?

- Simply put, a text-based way to interact with your operating system.
- The terms CLI (Command Line Interface) and Shell are often used to describe the command line.
- You can have a true text-based command line interface or one that is run through the GUI.

Text Based CLI

- More common in server based distributions.
- Can be accessed by ctrl + alt + f2 through ctrl + alt + f6.
- Each function key gives you a different workspace.
- Ctrl + alt + f1 will bring you back to the GUI (if you had one running)

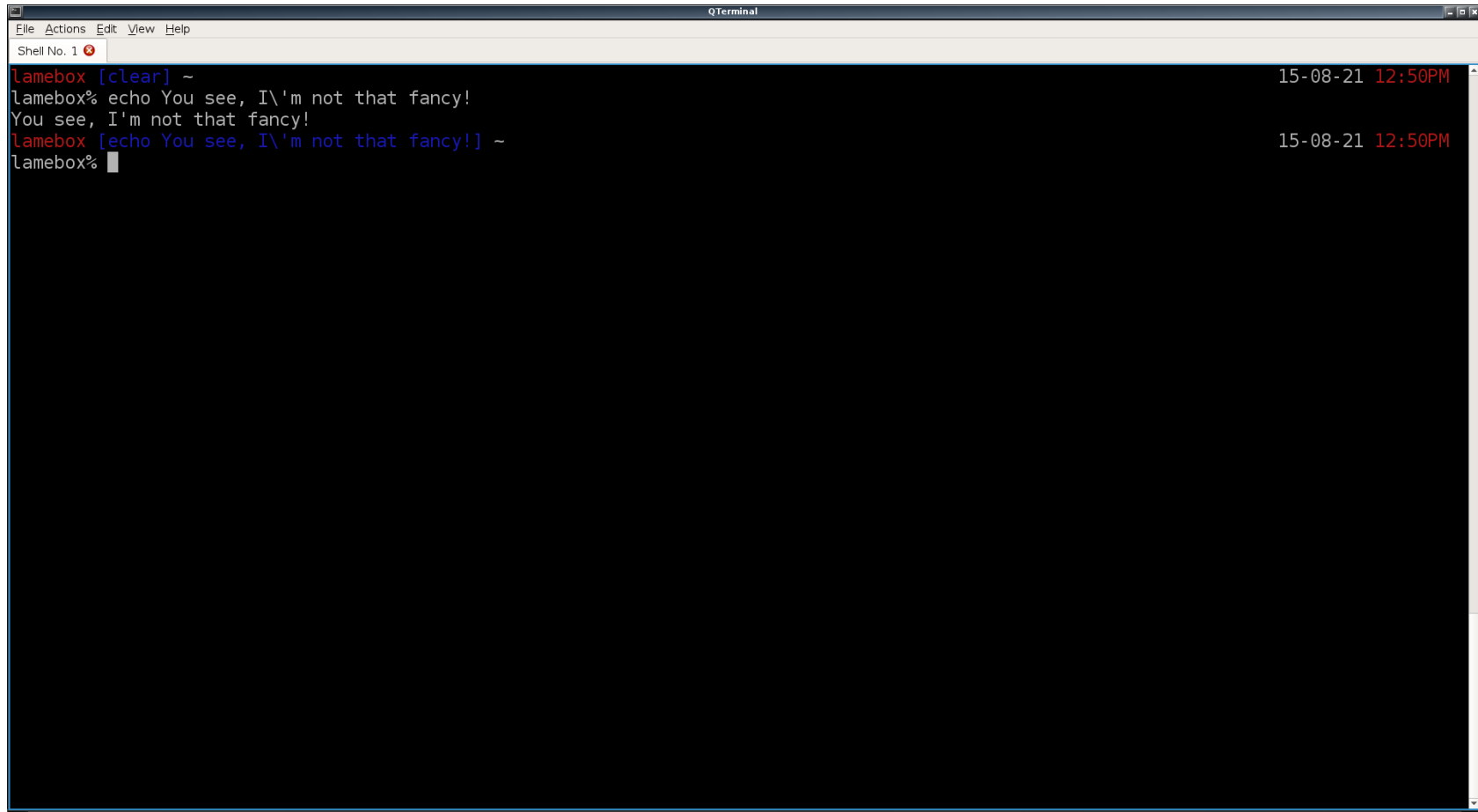
GUI Based Terminals

- This will be the most common way to use the command line.
- Linux distributions have a graphical based terminal installed by default.
- It is generally bundled in the desktop environment and can be accessed through the menu system.

Common GUI Terminals

- Konsole – KDE
- Gnome-Terminal – Gnome
- XFCE terminal – XFCE
- Terminology – Enlightenment
- Xterm – Xorg
- LXTerminal – LXDE
- There are many many more to choose from.

What does this 'Terminal' thing look like?



A screenshot of a QTerminal window. The title bar reads "QTerminal". Below the title bar is a menu bar with "File", "Actions", "Edit", "View", and "Help". A tab labeled "Shell No. 1" is visible. The terminal content shows a shell session with the following text:

```
lamebox [clear] ~
lamebox% echo You see, I\'m not that fancy!
You see, I\'m not that fancy!
lamebox [echo You see, I\'m not that fancy!] ~
lamebox% █
```

On the right side of the terminal, there are two timestamps: "15-08-21 12:50PM" and "15-08-21 12:50PM".

Basic Commands

- ls – list files in a directory
- cd – change a directory
- cp – copy a file or directory
- mv – move a file or directory
- rm – remove a file or directory
- kill/killall – killing tasks
- sudo – run a command with root privileges.

Why Use the Command Line?

- Can often be a quicker way to complete a task.
- Sometimes you may encounter issues with the GUI that can easily be resolved with the command line.
- Scripting and automation. (Makes life easier)

Some Notable Command Line Programs.

- Irssi – text based irc client (The client of the future).
- vi or vim – text based text editor.
- Elinks – text based web browser.
- Moc – music over console – a text based music player.
- Mutt – text based email client.
- There are many, many more...

Helpful links

- <http://files.fosswire.com/2007/08/fwunixref.pdf>
- <http://vic.gedris.org/Manual-ShellIntro/1.2/ShellIntro.pdf>
- <https://www.loggly.com/wp-content/uploads/2015/05/Linux-Cheat-Sheet-Sponsored-By-Loggly.pdf>
- <http://www.reallylinux.com/docs/basic.shtml>
- <http://www.reallylinux.com/docs/files.shtml>

Other Topic Ideas

- Grep, Sed, and Awk – Master Regex
- Not Just Bash – A Linux shell primer
- File System Structure – Where is that one thing?
- Bash Scripting – Automate your life.
- Wifi Hacking – Secure your network by breaking in.
- Steam Life – Why Steam will forever change Linux.
- Command Line 2 – Intermediate commands.
- Other suggestions?

CLUG Info

- Chat almost any time on IRC
 - Server: `irc.freenode.net`
 - Channel: `#cochiselinux`
 - If you need help getting an IRC client working / configured, feel free to ask.
- Website
 - `CochiseLinuxUsersGroup.github.io`
 - We are working on getting a domain that is shorter.
- Mailing List
 - Directions to sign up for the mailing list can be found on the website.

This slideshow can be found at:
<http://tinyurl.com/TermForBegin>

Questions / Demo