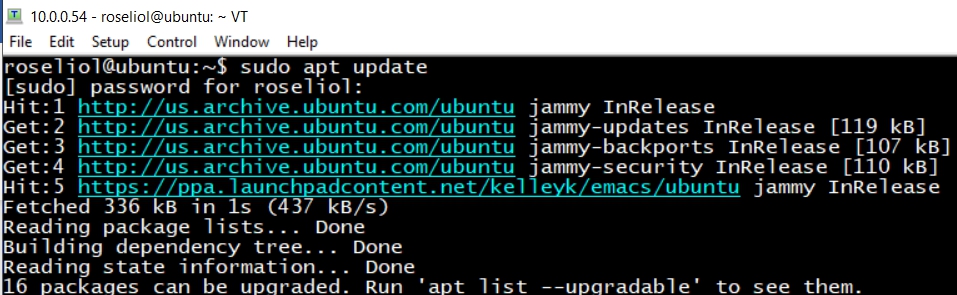
1. **Installing TMux, emacs, Fail2Ban, cowsay and lolcat**
2. To install Tmux we will use the command **sudo apt-get install tmux.** In my system it looks like it was already installed.
3. Text

   Description automatically generated
4. to install emacs we will be using the command **sudo add-apt-repository ppa:kelleyk/emacs** to update our repository list and add it to it.
5. Text

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6. Next run the command **sudo apt install** **emacs28.** We will install emacs28 since it is the latest release. Emacs is a text editor that allows you to edit or create new text files.
7. Next, we will install fail2ban by using the command **sudo apt install fail2ban**. Fail2ban is a tool that helps protect computers from brute force attacks by monitoring the services logs for malicious activities.
8. Text

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9. To install cowsay we will be using the command **sudo apt-get install -y cowsay**. Cowsay (or cowthink) will turn text into happy ASCII cows, with speech (or thought) balloons.
10. Text

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11. To install lolcat we will be using the command **sudo apt-get install -y lolcat**.
12. Text

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13. To get the latest versions of system programs before we install we run the command **sudo apt update.**
14. 
15. To see which packages, need to be updated we can use the command **apt list –upgradable**.
16. A picture containing graphical user interface

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17. To upgrade the packages, we run the command **sudo apt upgrade**. Which upgrade all of the packages seen in the previous picture. you might have to restart some services after the upgrade is done.
18. **Install VIM**
19. To install or update vim run the command **sudo apt-get install vim**. As you can see in the next picture, the version of vim installed in my system is already up to date.
20. Text

    Description automatically generated