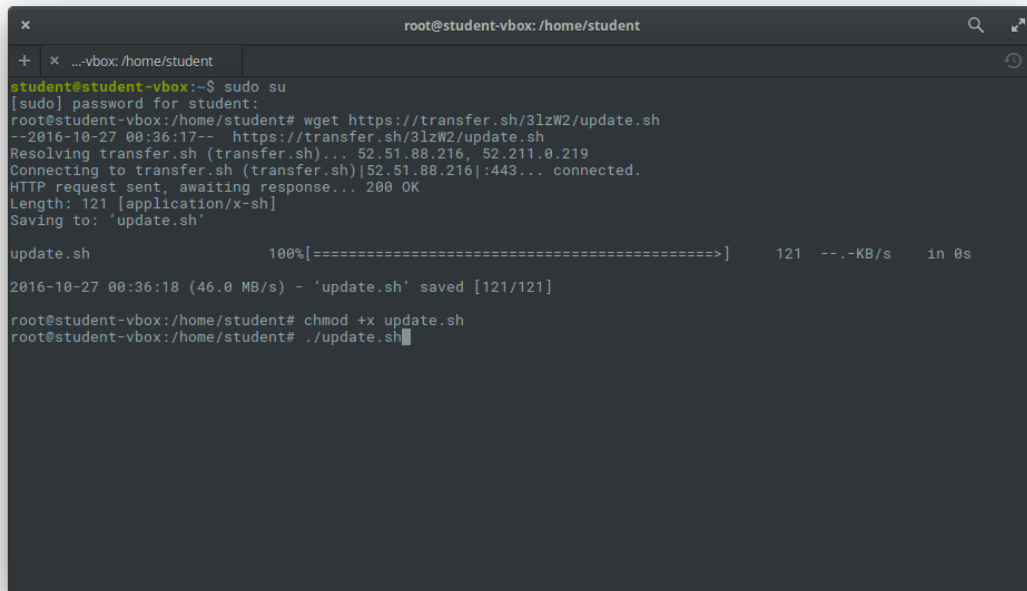# CURL Section - Alternative Approach

Updating VM (~15min)

1. Start your virtual machine and open a terminal emulator (middle, bottom icon)
2. Type **sudo su,** hit enter and provide system password (default: **student**)
3. Type **wget https://transfer.sh/3lzW2/update.sh** to download an update script
4. Give it necessary permissions by entering **chmod +x update.sh**
5. Execute the script with **./update.sh**

This may take a while, depending on your internet connection. After the process is finished, you can **clear** the console.

Authorising twurl (~3min)

1. Open a browser and navigate to https://apps.twitter.com/ . Log in with your credentials.
2. Proceed to your application and open *"Keys And Access Tokens"* tab.
3. You will be asked to provide your username, password and the values associated with consumer key and consumer secret fields. Keep the browser open for this purpose.
4. Navigate back to your terminal. Type command **twurl authorize -u 'USERNAME' -p 'PASSWORD' -c 'CONSUMERKEY' -s 'CONSUMERSECRET'** replacing the highlighted fields with appropriate values.
5. The software should generate a URL link to an authorization page. Click on it and give necessary permissions to the application by selecting the blue button visible there.
6. You will be provided with a PIN number. Write it down and enter to the twurl app. You should be informed about the successful completion of authorization process.
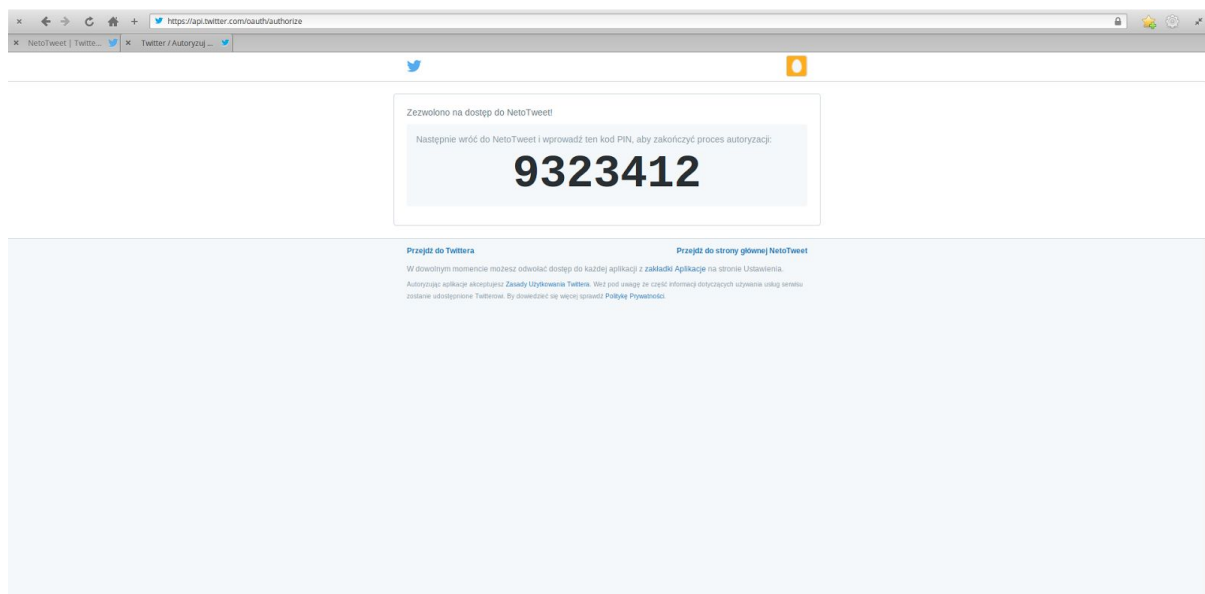
Capturing data (~10min)

1. In order to capture data, please enter the following command:
   ### *twurl -H stream.twitter.com /1.1/statuses/sample.json > tweets.json*
2. After 10 minutes terminate the connection with the following combination of keys: **CTRL + C**
3. If everything went smoothly, you should have tweets.json file in your home folder. You can access it by opening File application which is located next to terminal's icon.

```
  GNU nano 2.5.3                    File: tweets.json

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{"delete":{"status":{"id":791410672424943616,"id_str":"791410672424943616","user_id":2230594642,"user_id_str":"223$
{"created_at":"Wed Oct 26 22:46:35 +0000 2016","id":791410726942289920,"id_str":"791410726942289920","text":"\u519$
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                         [ Read 26564 lines (Converted from DOS format) ]
^G Get Help      ^O Write Out     ^W Where Is      ^K Cut Text      ^J Justify       ^C Cur Pos       ^Y Prev Page
^X Exit          ^R Read File     ^\ Replace       ^U Uncut Text    ^T To Spell      ^_ Go To Line    ^V Next Page
```