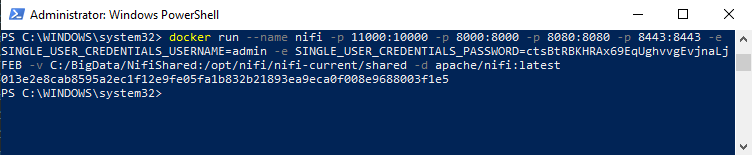
**BUAD 5722: Big Data - Lab 4 - Apache Nifi (Streaming Data)**

**Prof. Arturo Castellanos**

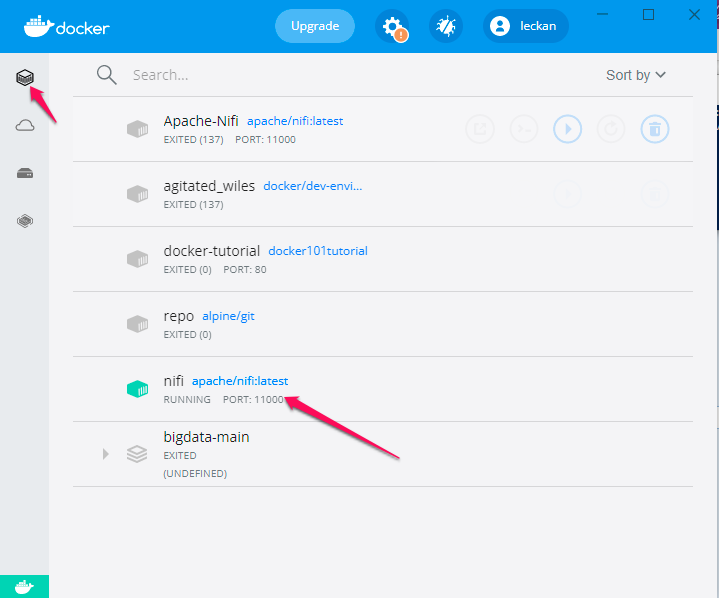
**Due: March 21st, 2022.**

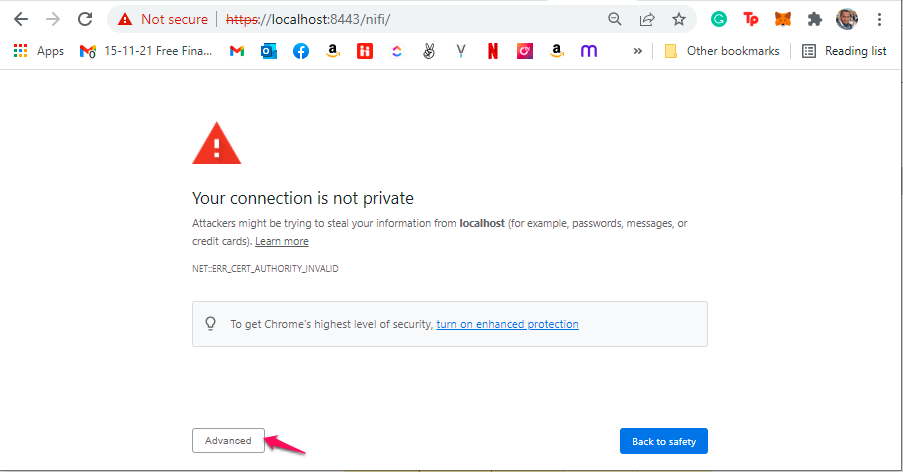
## **Part 1: Install Nifi using Docker** [apache/nifi - Docker Image](https://hub.docker.com/r/apache/nifi/)

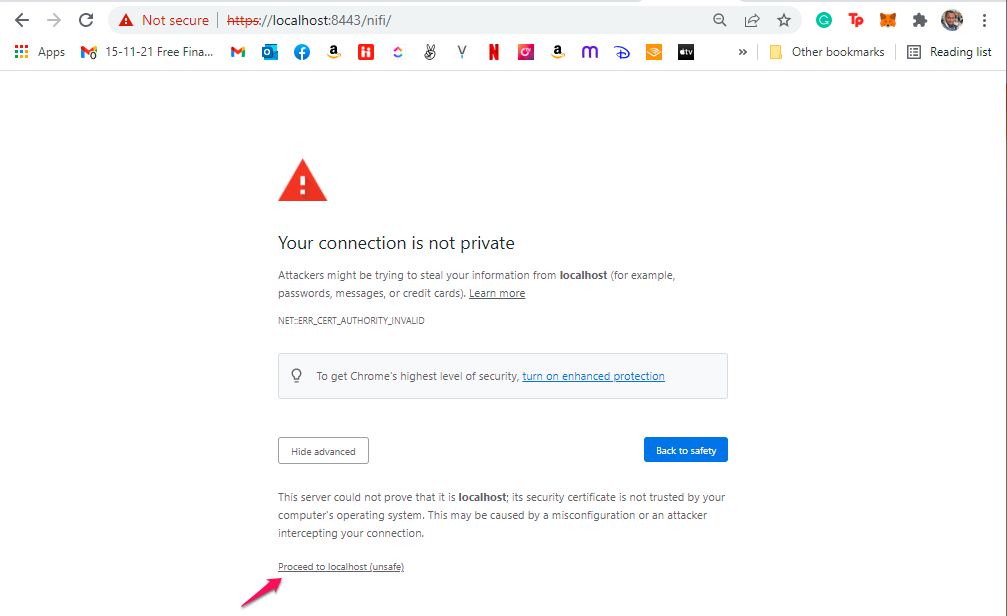
1. Create the folder **C:/BigData/Nifishared** to share files between local machine and Nifi docker environment (Note: you can choose a different folder but make sure to match the path to the folder in the command below in red)
2. Open Powershell as admin
3. Type and enter the following ***docker run --name nifi -p 11000:10000 -p 8000:8000 -p 8080:8080 -p 8443:8443 -e SINGLE\_USER\_CREDENTIALS\_USERNAME=admin -e SINGLE\_USER\_CREDENTIALS\_PASSWORD=ctsBtRBKHRAx69EqUghvvgEvjnaLjFEB -v C:/BigData/NifiShared:/opt/nifi/nifi-current/shared -d apache/nifi:latest***

******

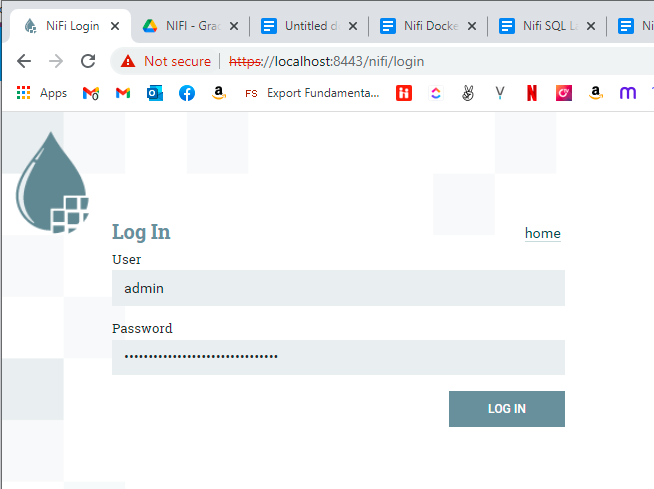
1. Confirm Container/App nifi is running

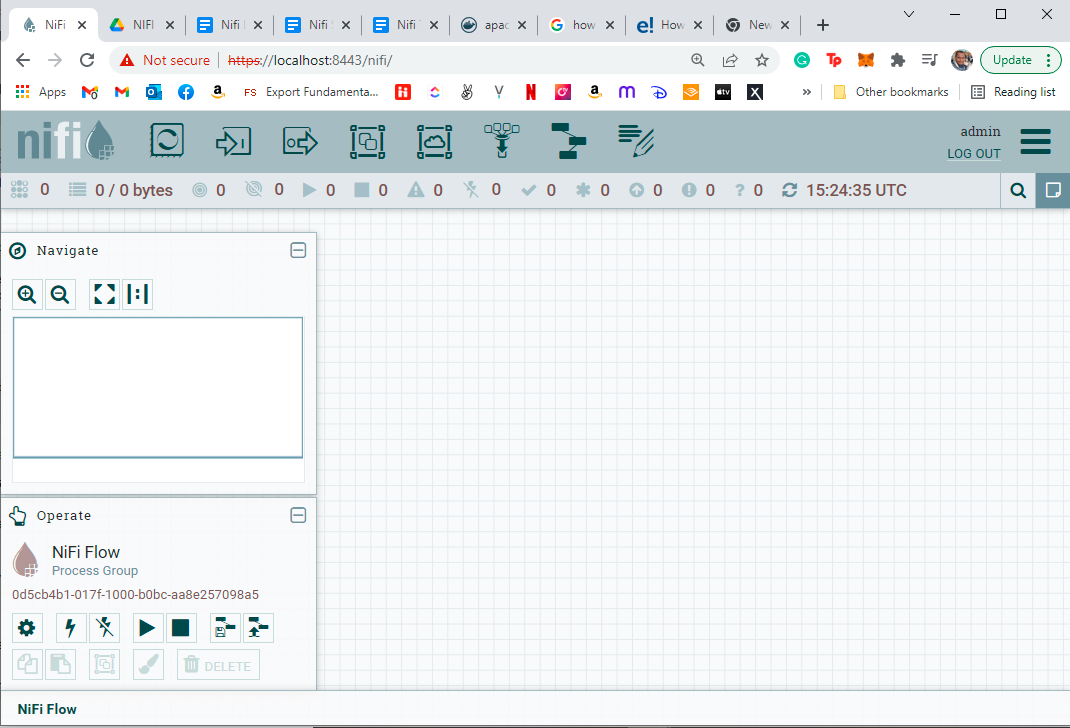


1. Visit[***https://localhost:8443/nifi/***](https://localhost:8443/nifi/)*(Note: Page available after about 5 minutes of running)*
2. 



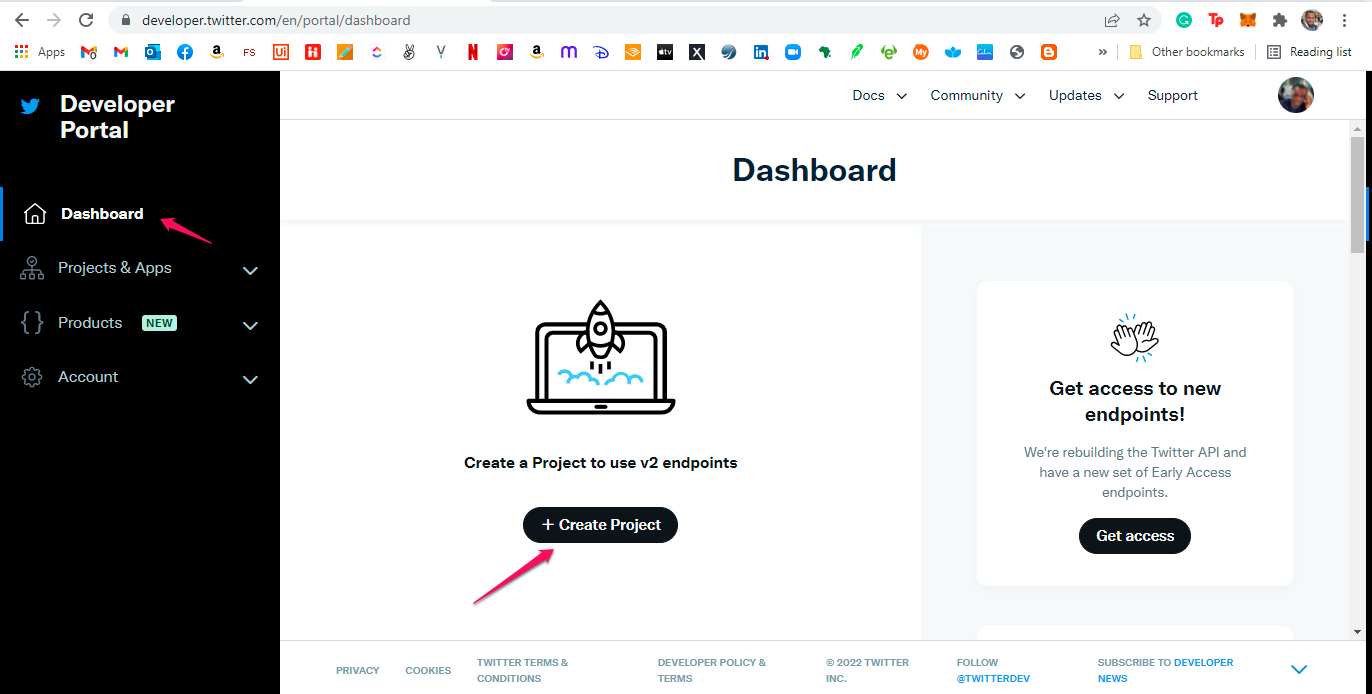
1. *USERName =* ***admin***
2. *PASSWORD =* ***ctsBtRBKHRAx69EqUghvvgEvjnaLjFEB***

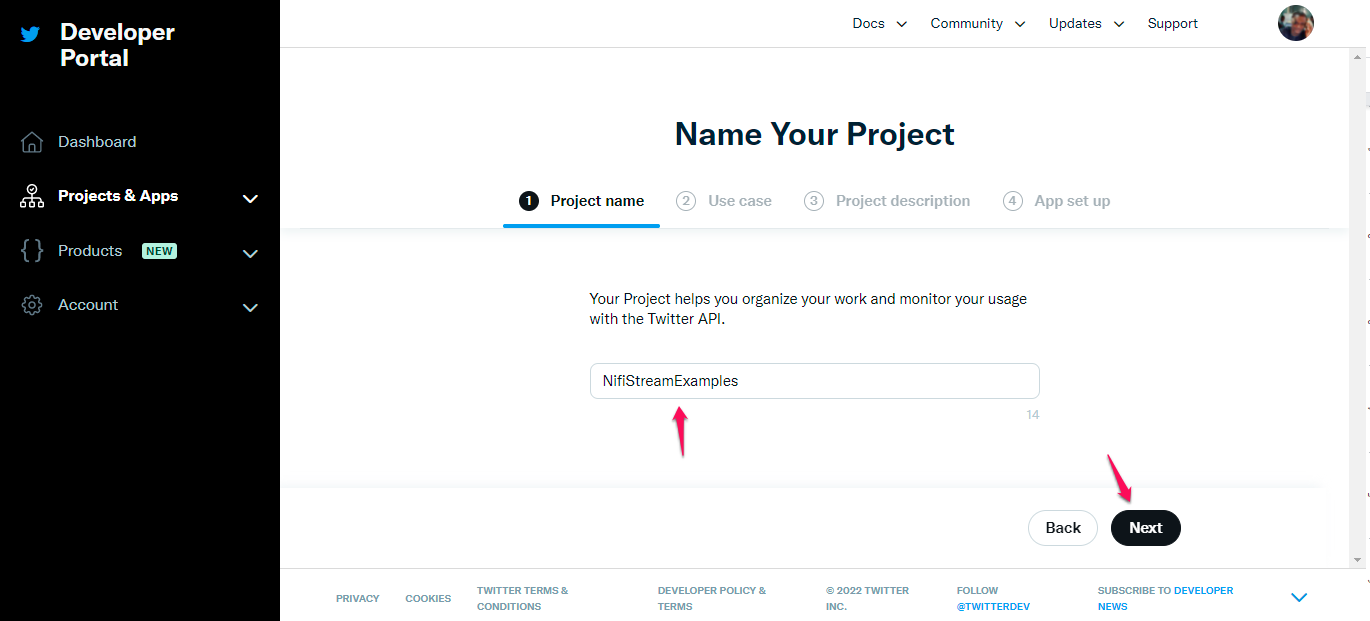


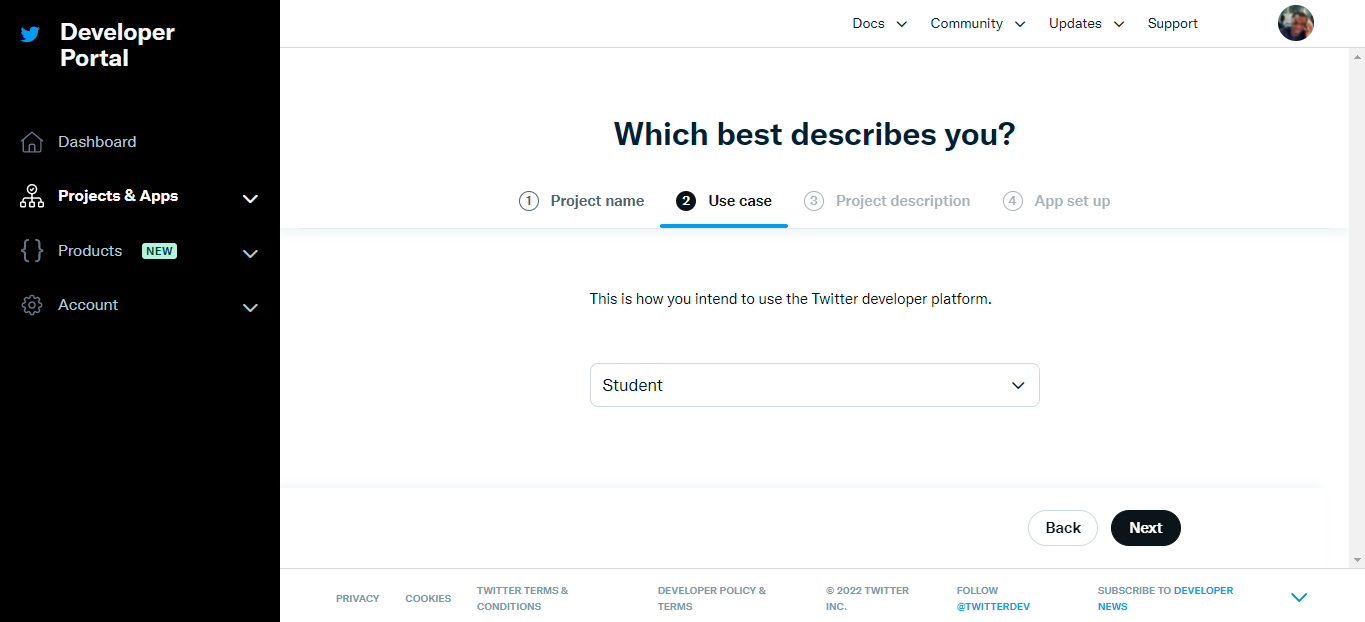


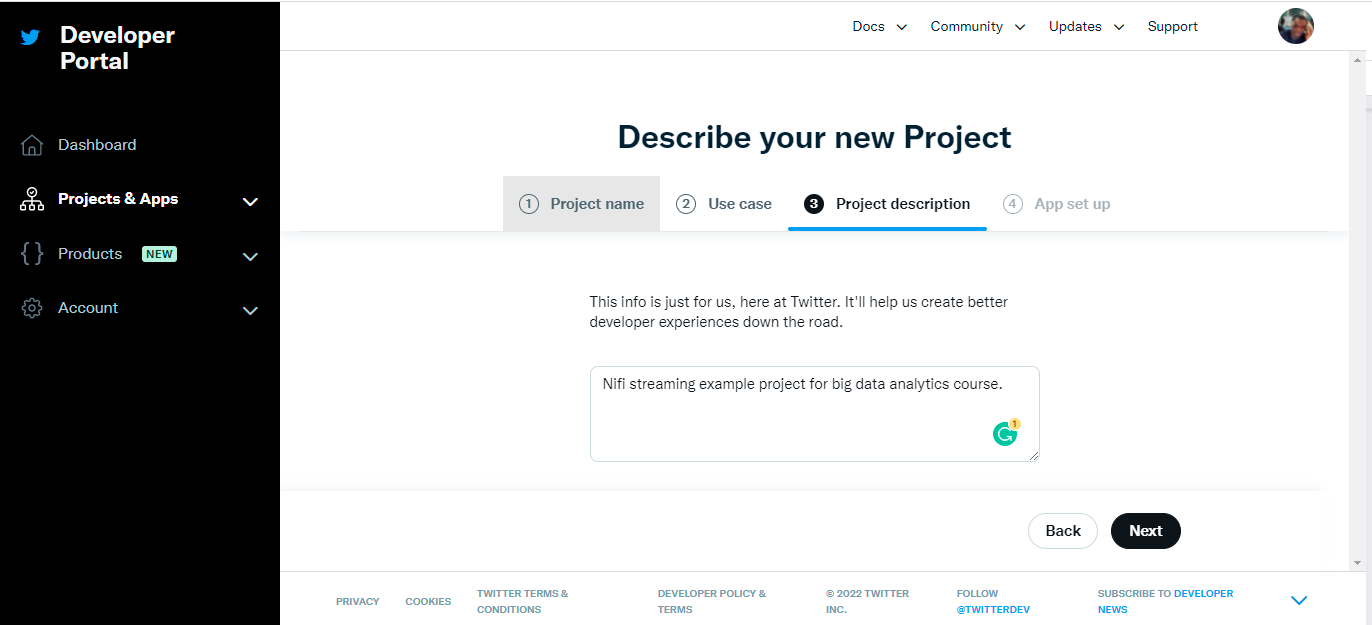
*Note: Running Docker containers such as Nifi and Hadoop consumes computer memory and CPU utilization, so stop containers* ***(don’t delete)*** *when not in use to enable faster response of PC.*

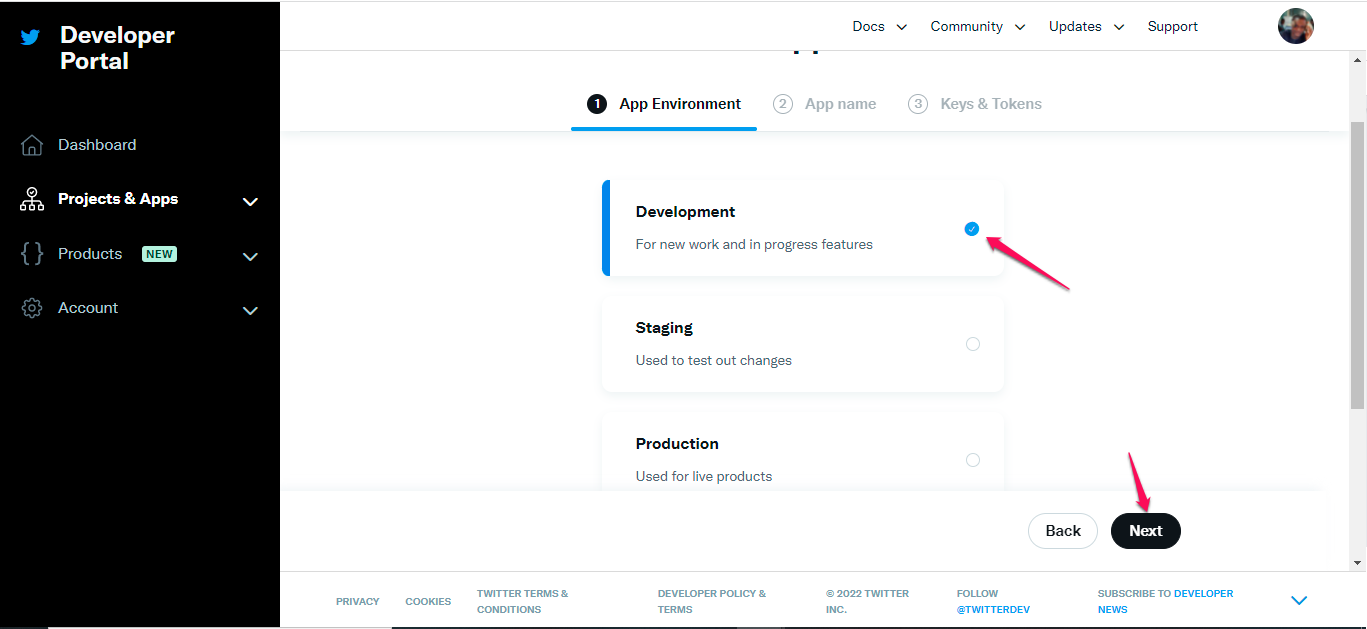
## **Get Twitter Credentials**

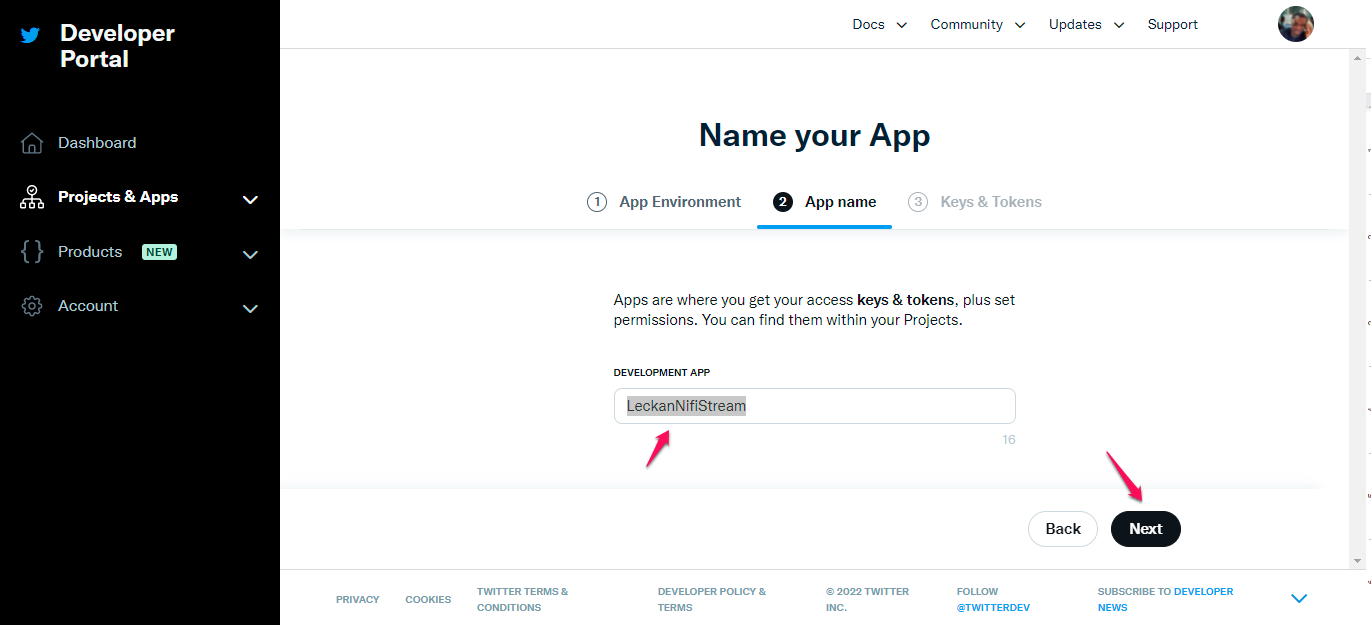
* Goto <https://developer.twitter.com/>
* Click Dashboard
* Click Create Project
* 
* Fill Form
  + Project Name **NifiStreamExamples**
  + How you intend to use Twitter developer platform select **Student**
  + Project description: **Nifi streaming example project for big data analytics course.**
  + App Environment - **Development**
  + Give a unique app name **- LeckanNifiStream**

****

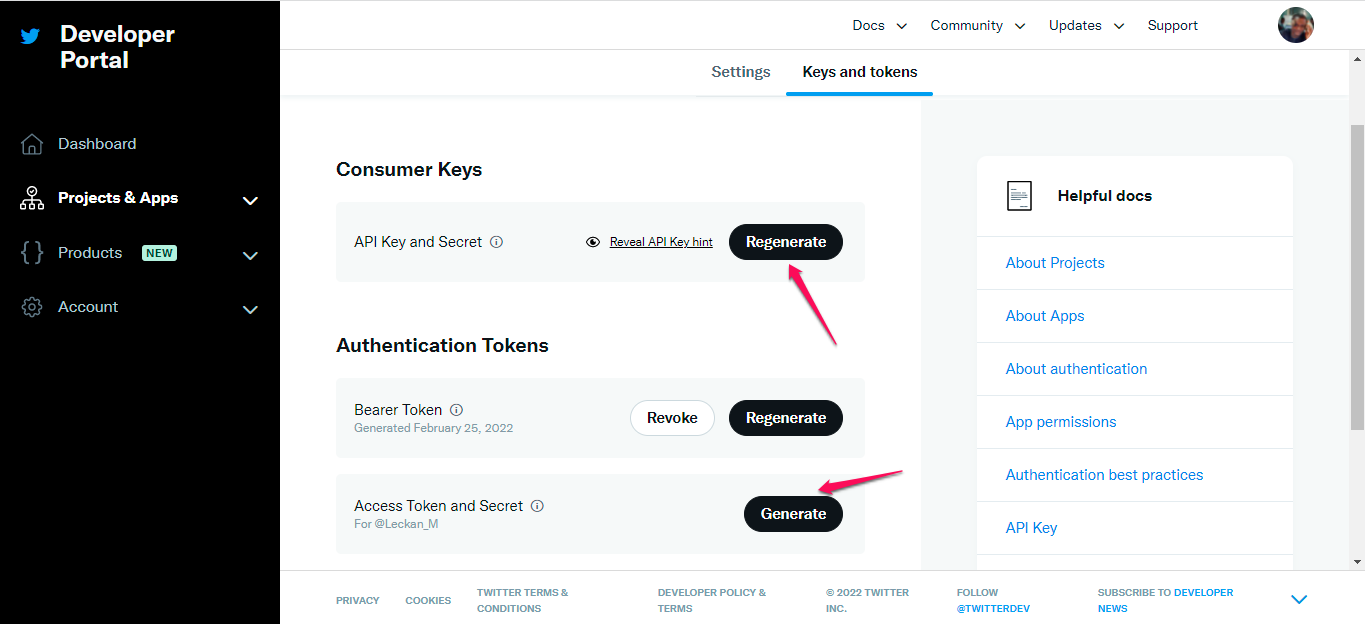
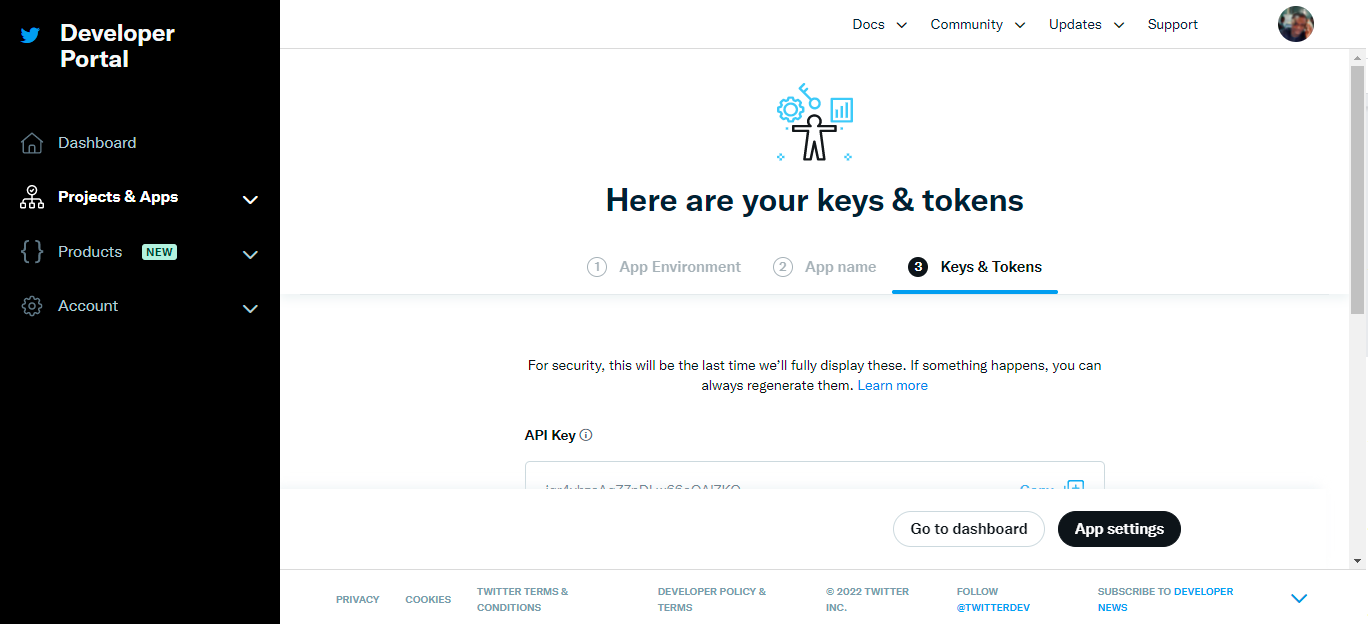
****

****

****

****

* + Copy out API Key, API Key Secret and Bearer Token and save
  + Click on App Settings
    - **Generate API key and Secret**
    - **Generate Access Token and Secret**

****