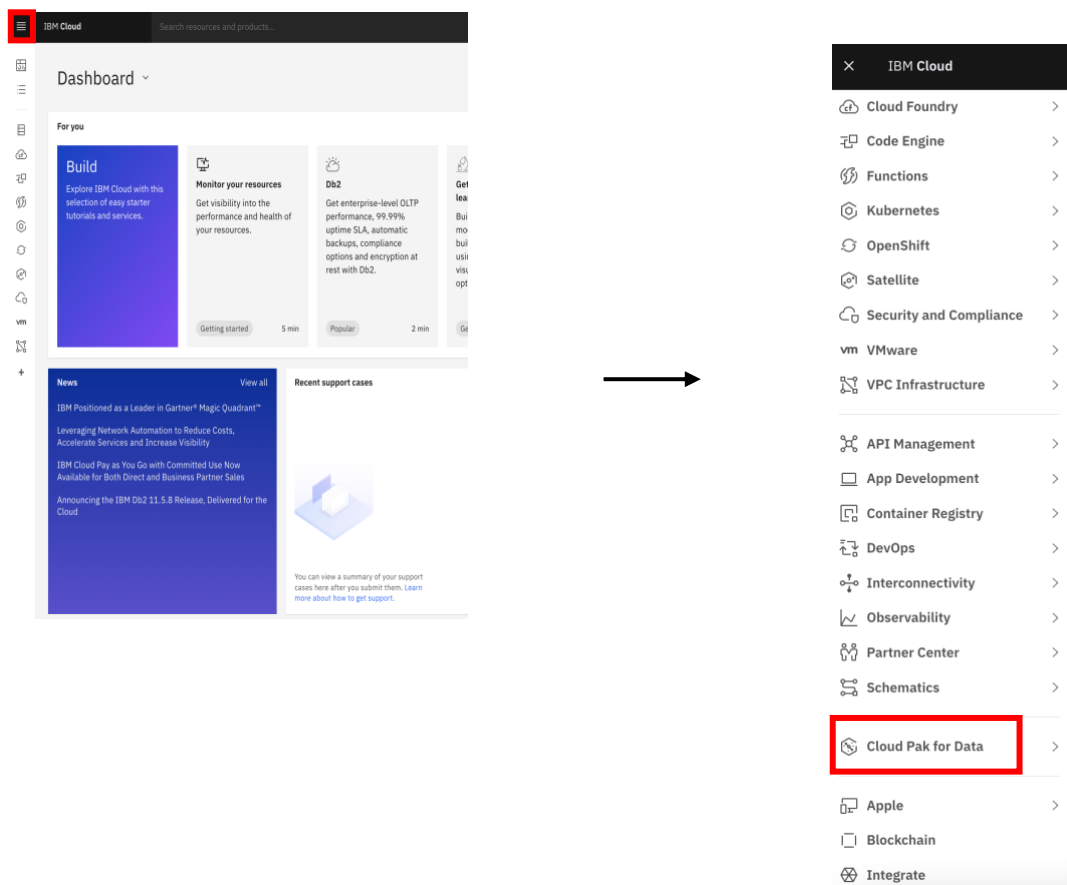


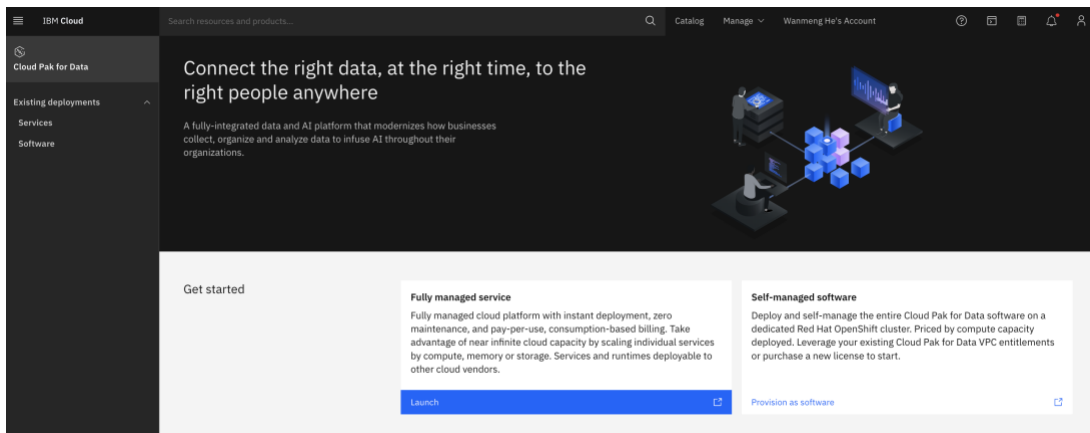
## Getting Started with Watson Studio

To use Watson NLP in a Notebook you need to start with Watson Studio. Here are the steps:

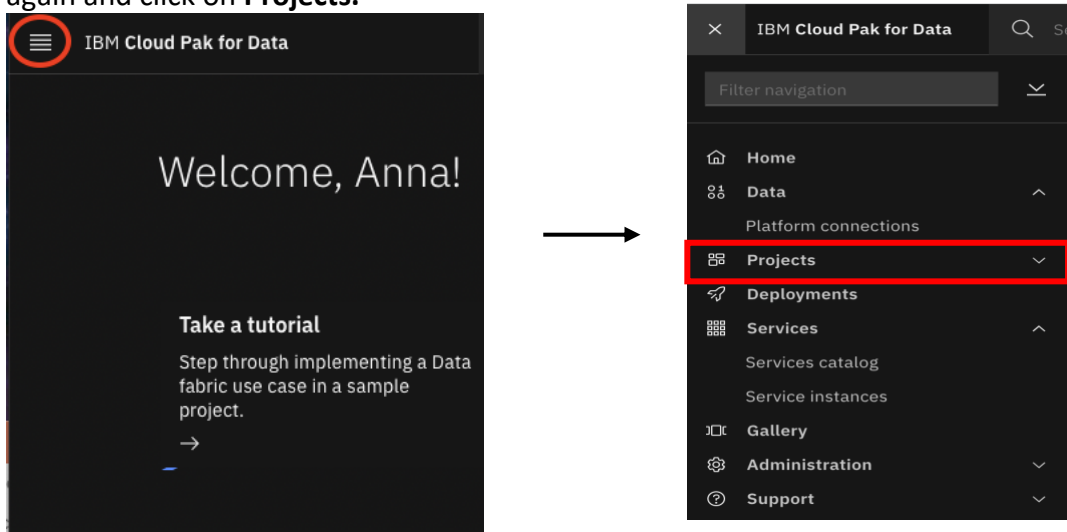
1. **Register an IBM cloud account** at <https://cloud.ibm.com/registration>.  
As at any other Cloud platform during the registration you will need to provide your bank card details. But do not worry, choose the lite plan, so you will not be charged.
2. If you already have an account at IBM Cloud **log in** to your account at here <https://cloud.ibm.com/login>
3. Click on the **hamburger menu** on the top left corner and then click on **Cloud Pak for Data**.



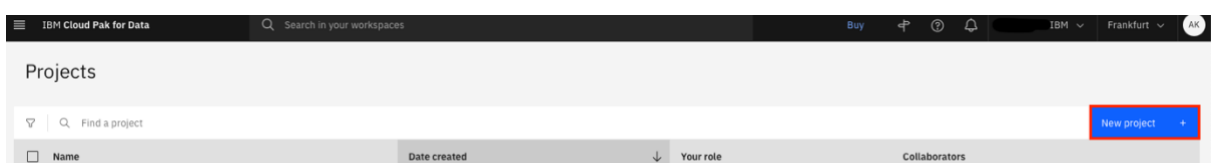
4. At **Get Started** choosing **Fully Managed Service** and click **Launch**.
5. Here you may be asked to choose a region and agree on terms before getting to the next page. Please, choose **Frankfurt** if you are based in EU, agree on the terms and conditions. And click **Create an IBM Cloud account**.



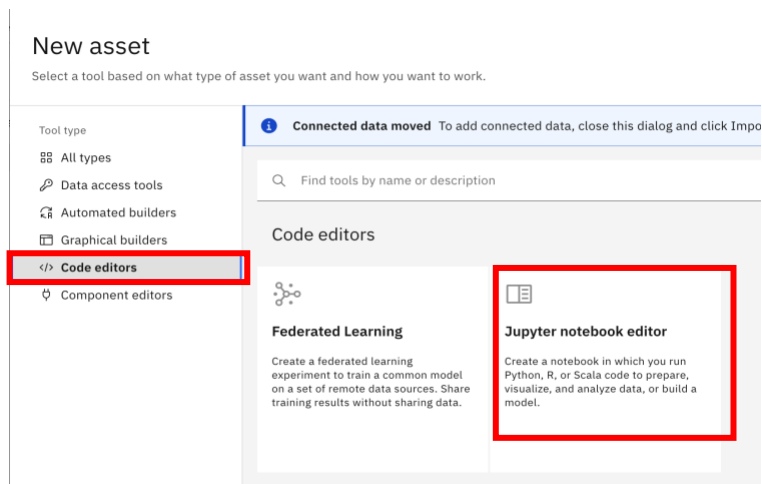
6. Once you navigate to the Cloud Pak for Data home page, go to the **hamburger menu** again and click on **Projects**.



7. Add a project by clicking on **New project+**.



8. Create a name for your project and click on **create**.
9. Once you are inside your side, click on the **Assets** button in the top menu.
10. Click on **New asset** to add a new asset.
11. Click on the **code editors** from the left menu and then click on **Jupyter notebook editor** to add a notebook to your project. You can also do this by using the search bar.



12. Now create a notebook from URL, click first on From URL, then make sure you select the runtime 'DO+NLP Runtime 22.1 on Python 3.9 (2 vCPU 8 GB RAM)' from the dropdown menu.

13. Paste

[https://github.com/annakazakovalindegren/PyCon\\_Sweden\\_Watson\\_NLP\\_2022/blob/main/Watson%20NLP%20PyCon%20Sweden%202.0.ipynb](https://github.com/annakazakovalindegren/PyCon_Sweden_Watson_NLP_2022/blob/main/Watson%20NLP%20PyCon%20Sweden%202.0.ipynb) and provide a name for your notebook, click on Create.

14. Now you should be able to run the notebook and make changes to it. If you have any questions about the Cloud Pak for Data platform or the notebook, please check out our official documentation <https://www.ibm.com/docs/en/cloud-paks/cp-data/4.5.x> or reach out to us: [anna.kazakova.lindegren@ibm.com](mailto:anna.kazakova.lindegren@ibm.com), [sara.elo.dean1@fi.ibm.com](mailto:sara.elo.dean1@fi.ibm.com).

## Voice of Customer in Swedish Language with Watson NLP

### What is Watson NLP?

**Watson NLP** is a State-of-the-art NLP stack with full-suite of NLP algorithms and developer-focused UX. It is built on top of the best AI OSS with IBM Research innovations. Available for 30+ languages including European: Western, Nordic, CEE; CJK, Arabic, Hebrew, Hindi, Turkish.

The following natural language processing tasks are available as blocks in the Watson Natural Language Processing library:

- Syntax analysis
- Keyword extraction and ranking
- Entity extraction
- Sentiment classification
- Etc

Many of the pre-trained models are available in many languages. In this workshop, we will perform some of the tasks mentioned above in Swedish. You can test other languages by changing 'sv'/'en' to another language code whenever you see it in a model name. Find a list of available languages and language codes here: <https://dataplatform.cloud.ibm.com/docs/content/wsj/analyze-data/watson-nlp-block-catalog.html?audience=wdp#lang-codes>

**We engage you to experiment and try out Watson NLP with your data!**

### Import Watson NLP library and create some text in Swedish ¶

The first step is to import Watson NLP, which is already available to us here in IBM Watson Studio Notebooks. (If you are getting errors, **double check** that you selected '**DO + NLP Runtime 22.1 on Python 3.9**' when creating the notebook)

```
import watson_nlp
```

To keep things interesting we created text that we met quite often online in the product reviews left by customers. We make it sure it include mixed sentiment and various entity types, so you can see the beauty of Watson NLP in action.

The text in English: "I can't handle the delivery! You promised that everything will arrive within 3-5 days. But I received the package on Monday and it took 2 weeks! However, I love Joco's shampoo and conditioner and think they are absolutely worth the 500 SEK".

```
#Define Swedish text. To play around with sentiment score we advice you to choose a mix sentiment in that text
sv_text= "Jag orkar inte med leveransen! Ni lovade att allt kommer vara framme inom 3-5 dagar. \n Men jag fick paketet på måndag och det tog 2 veckor! Dock så älskar jag Jocos shampoo och balsam och tycker att de a
```