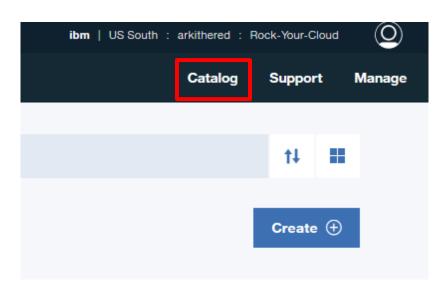


# Part 2 - Create a Watson Discovery Service

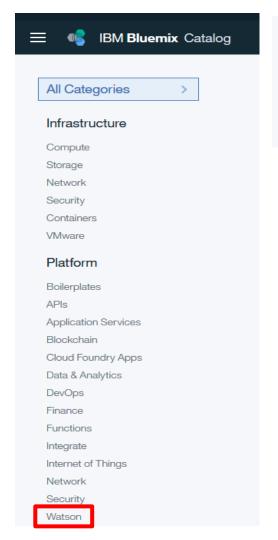
Watson Discovery is a cognitive search and content analytics engine that enables you to quickly find value from any data. Whether you want to find answers, surface patterns, or monitor trends, Watson Discovery allows you to quickly extract the most relevant information from your own data.

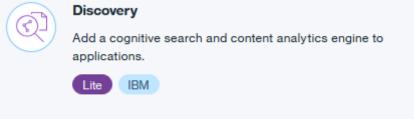
In this lab we will learn how to create a Watson Discovery service, and upload a document to the service:

1. Go to IBM cloud homepage in bluemix.net and press on catalog.



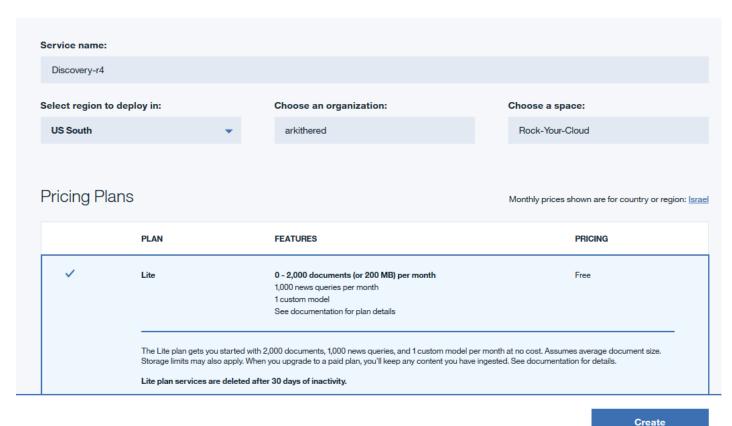
2. On the menu on the left side, click Watson and choose Discovery.



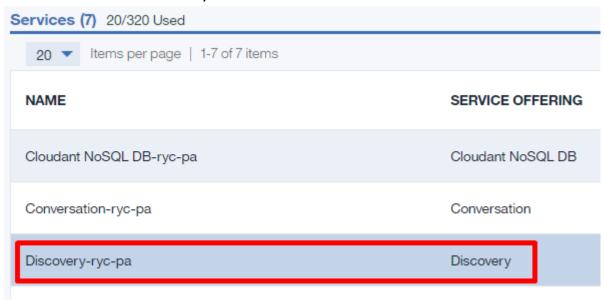




3. You will see the following window:

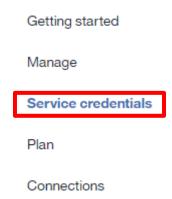


- In the field **service name** choose a meaningful name for your service.
- Select the region your app is running on.
- Choose your organization and your space.
- Choose your pricing plan, **Lite is the default**, choose it.
- Click Create.
- 4. If you are inside the service page go to the next step ,**Scroll down** to see the services and **click** on the "Discovery" service.





5. On the left menu click on "Service credentials".



6. If you don't have default credentials so make new by **clicking** on the "New credentials" button located at the right side of your screen.



7. Click on "Add" button.



8. To see the credentials your just added **click** on the "view credentials".



9. **Copy** the "Username" and "Password" and **save** them inside the CheatSheet.txt file that mentioned in part 1 under "discoveryUsername" and "discoveryPassword".



10. Now Click on the "Manage" option on the left menu.

Getting started



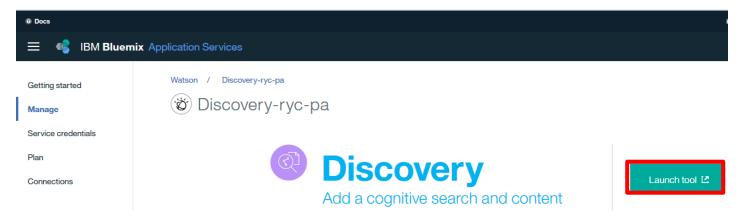
Service credentials

Plan

Connections

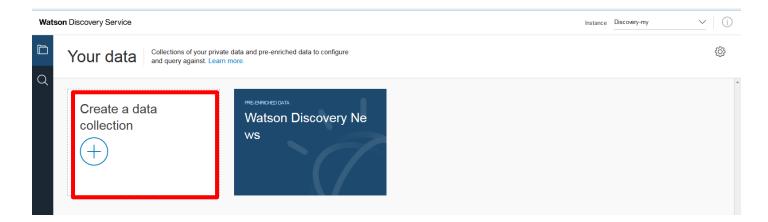


#### 11. Click on Launch tool:

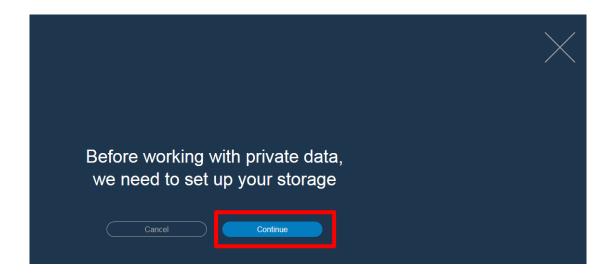


12. Clicking launching tool will open the discovery service homepage. In this homepage, you can see the collections you have. A collection is a set of your documents, and a space to question (in natural language query) your collection of documents. Documents supported are *PDF*, *WORD*, *HTML*, and *JSON*.

**Click** on *create a data collection* to create a new collection:

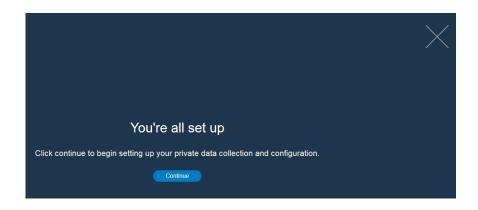


13. The service is setting up storage for indexing. You will get the following message, click **continue** 

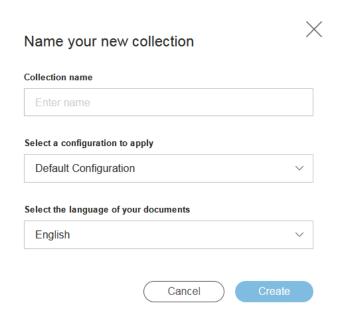


14. You will get a message that the service finish setting up the storage, click continue



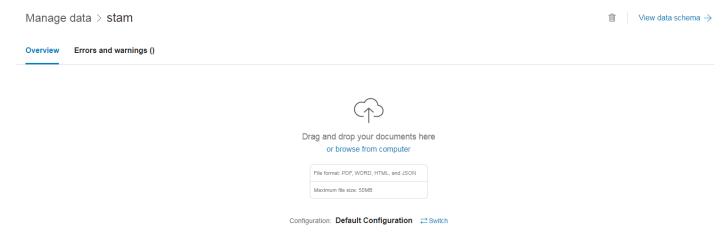


15. The following window will pop up, insert a **meaningful name** for the collection, choose **default configurations** and choose **English** as your documents language. Click **Create**.



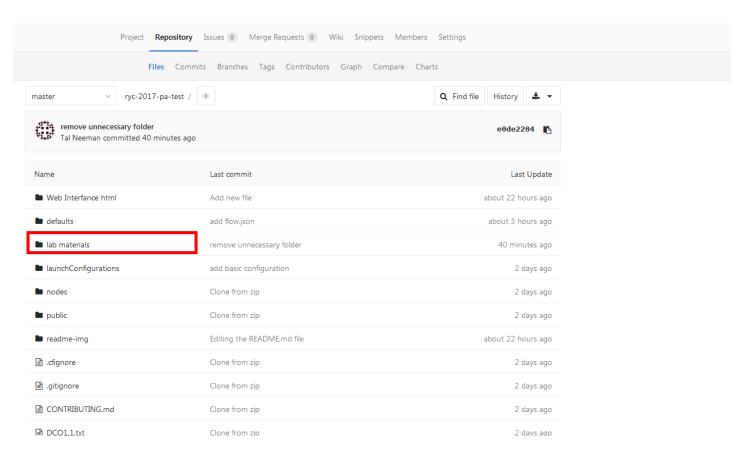


## 16.It will forward you to this window:

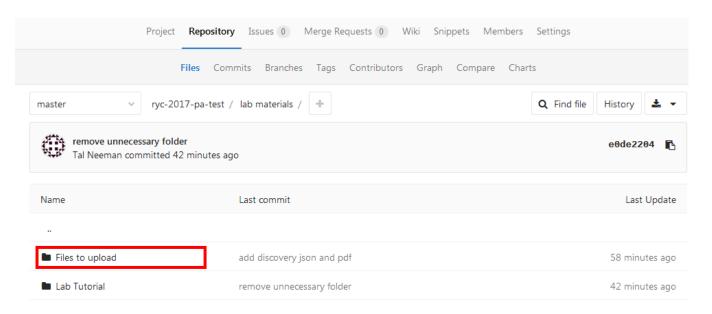


Here is where you upload your documents (drag and drop).

17. After downloading the files from the git you will have inside *Lab materials* a folder called *files to upload*, click on it.







## 18.In this folder, you will find the following files:

Discovery - BoschDishwasher.json

Discovery - BoschWashingMachine.json

Discovery - LGDishwasher.json

Discovery - LGWashingMachine.json

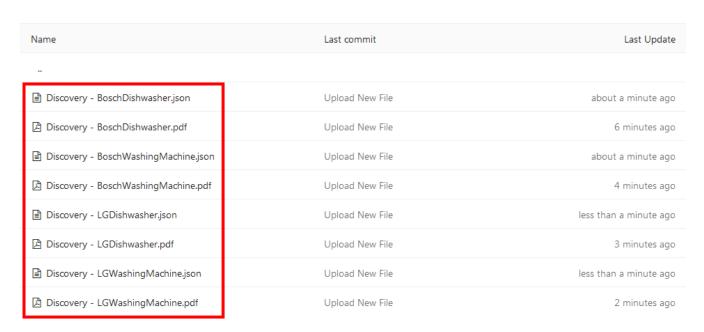
Discovery - BoschDishwasher.pdf

Discovery - BoschWashingMachine.pdf

Discovery - LGDishwasher.pdf

Discovery - LGWashingMachine.pdf

# Those Files are manuals and information about the services our technician can give



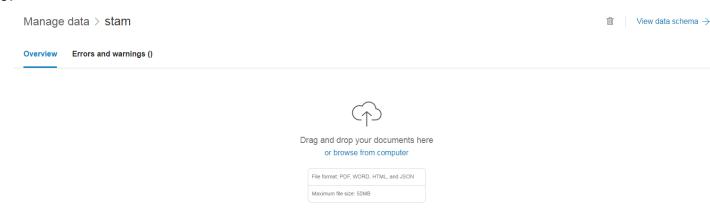


19. After downloading the files drag and drop them.

After uploading it will give you a summary of Watson Discovery built in abilities:

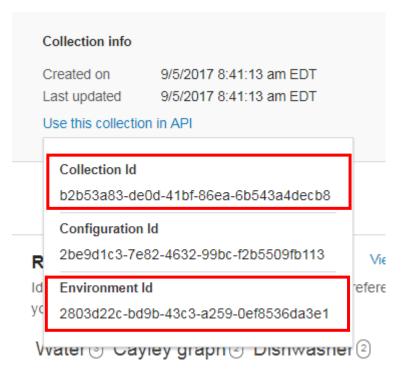
- General Sentiments extracting the documents sentiments. (In percentage, how negative, positive or neutral)
- Top keywords extracting top keywords from your text
- Top Entities Entity represents a class of object or a data type that is relevant to a user's purpose. Discovery service extracts automatically entities based on the documents.
- Related concepts and concepts hierarchy extracts concepts (that are in the documents) that are being discussed in the text.

20.



21.After you upload the first file you can see "Use this application in API" button, **click** on it and **copy** the "collection\_id" and "environment\_id" and **save** them as " discoveryEnvironmentID" and "discoveryCollectionID" in your CheatSheet.txt file.

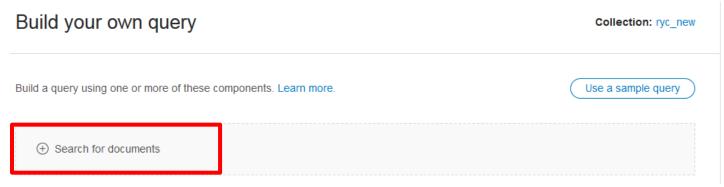




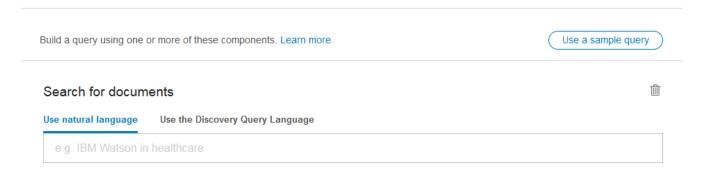
22. Click "Build Queries" button located at the left menu and select your collection.



23. Click Search for documents



24. You can use natural language or using "Discovery Query Language" which is a query language used in discovery.



25.In the bottom of the page there is a possibility to choose **more options**, clicking on that will open a menu that helps you filtering your results



# 

Number of documents to return



Default: 10

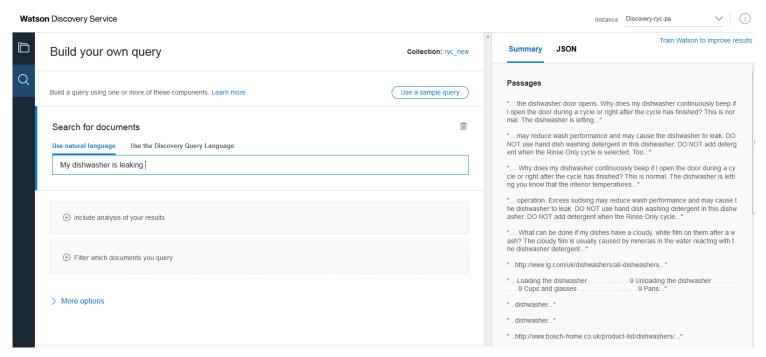
Number of query results to skip at the beginning



This option is for pagination



### 26. Here is an example of an output or the query "My dishwasher is leaking":



#### 27. Clicking on the **JSON** next to summary will give you the output in a **JSON** format:

