Provisioning the Natural Language Understanding (NLU) service

Step 1: Log in to IBM Cloud

1. In your browser, go to https://cloud.ibm.com and log in.

   Note: If you're already logged in to IBM Cloud, it should redirect to the IBM Cloud dashboard page automatically.

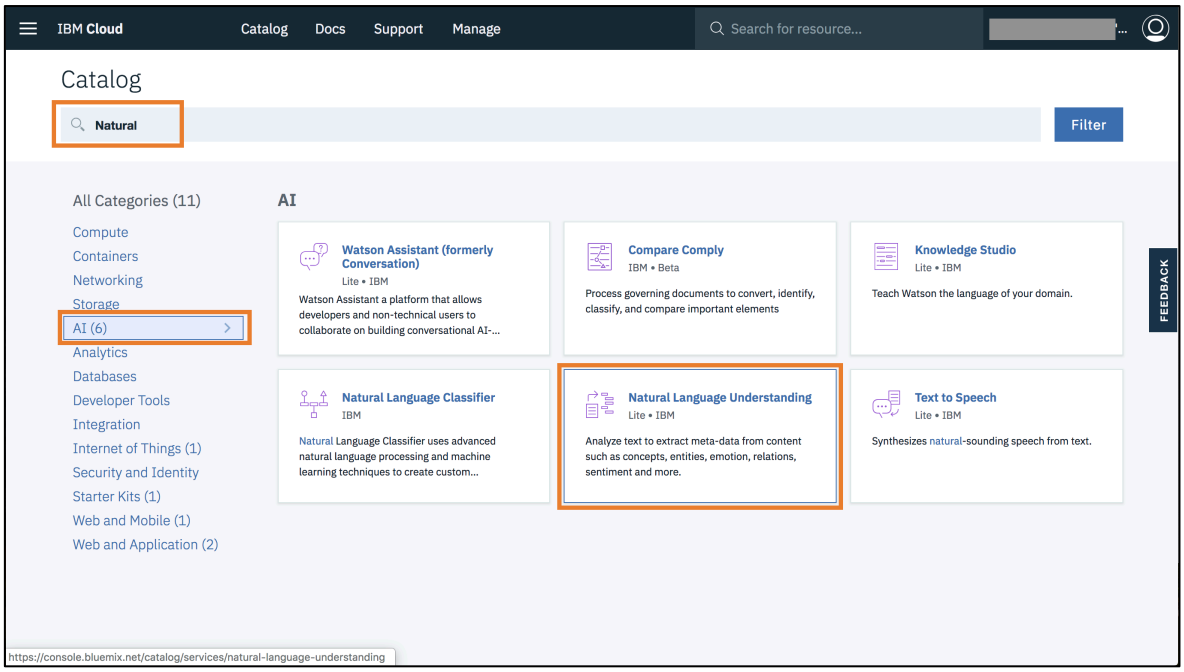
2. Click **Log in** button, and log in with your intranet ID or your other IBMid,

3. Confirm that you are viewing your IBM Cloud Dashboard.

Step 2: Create a Natural Language Understanding (NLU) service instance

1. Click **Catalog** on the top navigation menu.

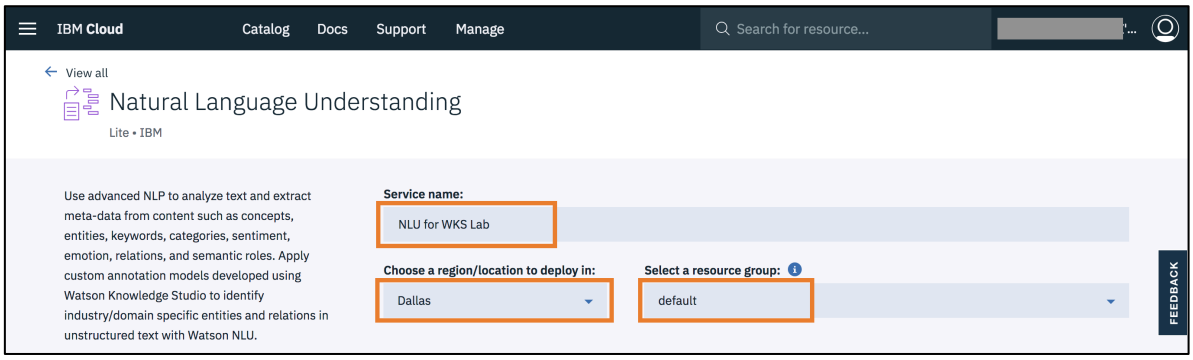
2. Type "**Natural**" into the search field and press **Enter**. Find and click on the **Natural Language Understanding** service (under the AI category).



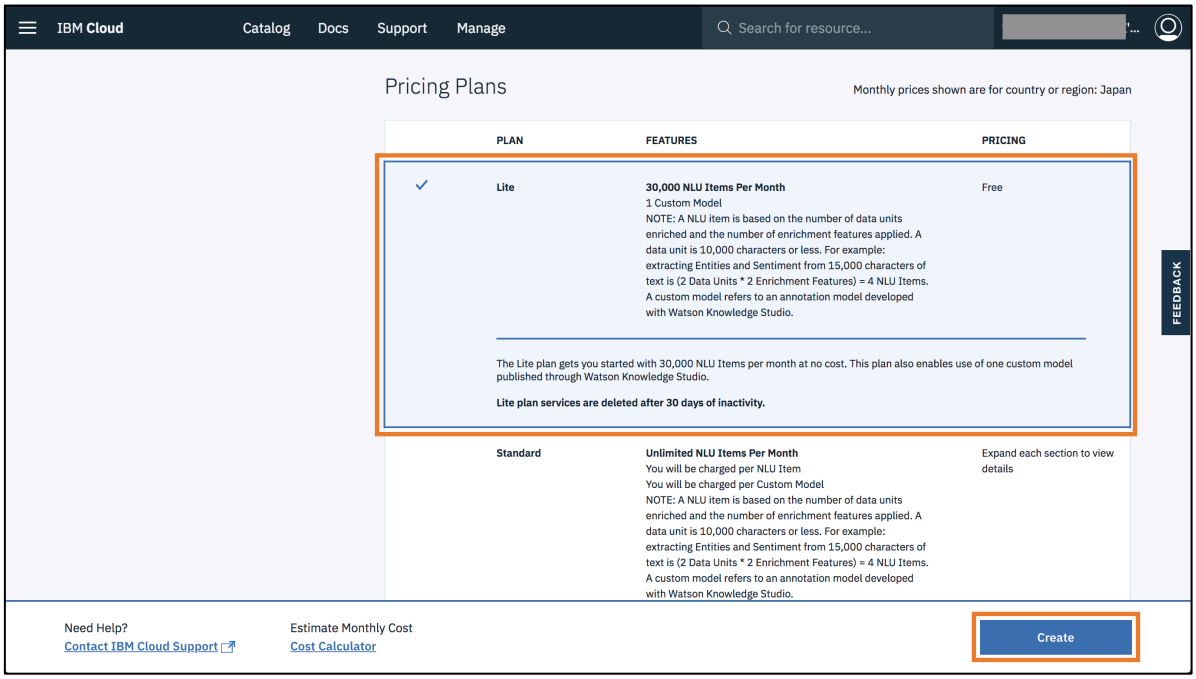
3. In the Natural Language Understanding service page, fill in the following fields.

   - **Service name**: NLU for WKS Lab
   - **Region/Location to deploy in**: Dallas
   - **Resource group**: Default

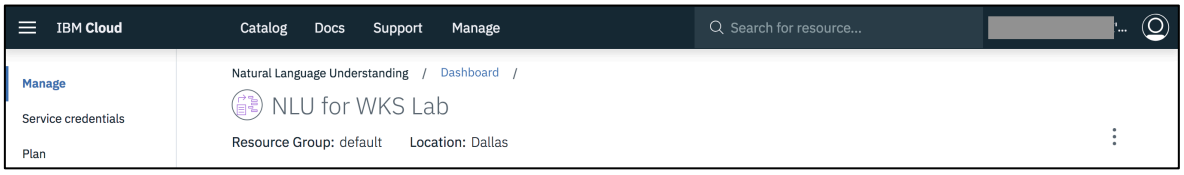
   Note: You can choose any region and any resource group here, but the region MUST be same as the Watson Knowledge Studio instance you have previously created.



4. Scroll down the page and confirm that the **Lite** plan is selected, and then click **Create**.



5. Confirm that you can see the service dashboard page of the created NLU instance.



Step 3: Try an API call to the Natural Language Understanding service

1. Go through the short Getting started tutorial on the service dashboard page of the Natural Language Understanding service and try out the sample API calls using the curl command in your terminal.

   Note: You can copy the sample curl command by clicking the  icon in the top right corner of the example screenshots. If you toggle the Show credentials link near the top of the page, your API key should be automatically inserted into the example curl calls.

2. Examine the format of the curl command to see how you can specify which features you wish to extract (sentiment, keywords, etc.) Customize your curl command as follows:

   - **text**: “Revenues from the Software segment were $6.3 billion, an increase of 12 percent (6 percent, adjusting for currency) compared with the fourth quarter of 2006; pre-tax income increased 21 percent. Revenues from IBM's middleware products, which primarily include WebSphere, Information Management, Tivoli, Lotus and Rational products, were $5.0 billion, up 13 percent versus the fourth quarter of 2006. Operating systems revenues of $664 million increased 3 percent compared with the prior-year quarter.”
   - **features**: { “entities”: {} }

   You should use the NLU service getting started page, rather than these instructions, to copy the most up-to-date curl command (e.g., the version is likely to be updated over time)

   Here is roughly what the sample curl command and its execution result should look like:

[Command]

```
curl -X POST -u "apikey:your-API-key" -H "Content-Type: application/json" -d '{  "text": "Revenue
from the Software segment were $6.3 billion, an increase of 12 percent (6 percent, adjusting for
currency) compared with the fourth quarter of 2006; pre-tax income increased 21 percent. Revenues
from IBM’’s middleware products, which primarily include WebSphere, Information Management, Tivoli,
Lotus and Rational products, were $5.0 billion, up 13 percent versus the fourth quarter of 2006.
Operating systems revenues of $664 million increased 3 percent compared with the prior-year
quarter.", "features": { "entities": {} }}' "https://gateway.watsonplatform.net/natural-language-
understanding/api/v1/analyze?version=2018-11-16"
```

[Result]

```
{
  "usage": {
    "text_units": 1,
    "text_characters": 500,
    "features": 1
  },
  "language": "en",
  "entities": [
    {
      "type": "Company",
      "text": "IBM",
      "relevance": 0.859257,
      "disambiguation": {
        "subtype": [
          "SoftwareLicense",
          "OperatingSystemDeveloper",
          "ProcessorManufacturer",
          "SoftwareDeveloper",
          "CompanyFounder",
          "ProgrammingLanguageDesigner",
          "ProgrammingLanguageDeveloper"
        ],
```

```
        "name": "IBM",
        "dbpedia_resource": "http://dbpedia.org/resource/IBM"
      },
      "count": 1
    },
    {
      "type": "Quantity",
      "text": "$5.0 billion",
      "relevance": 0.859257,
      "count": 1
    },
    {
      "type": "Quantity",
      "text": "$6.3 billion",
      "relevance": 0.859257,
      "count": 1
    },
    {
      "type": "Quantity",
      "text": "$664 million",
      "relevance": 0.859257,
      "count": 1
    },
    {
      "type": "Quantity",
      "text": "12 percent",
      "relevance": 0.859257,
      "count": 1
    },
    {
      "type": "Quantity",
      "text": "13 percent",
      "relevance": 0.859257,
      "count": 1
    },
    {
      "type": "Quantity",
      "text": "21 percent",
      "relevance": 0.859257,
      "count": 1
    },
    {
      "type": "Quantity",
      "text": "3 percent",
      "relevance": 0.859257,
      "count": 1
    },
    {
      "type": "Quantity",
      "text": "6 percent",
      "relevance": 0.859257,
      "count": 1
    }
  ]
}
```


Click on “View the API reference” at the bottom of the Getting Started page to get more detailed information about the NLU API documentation.