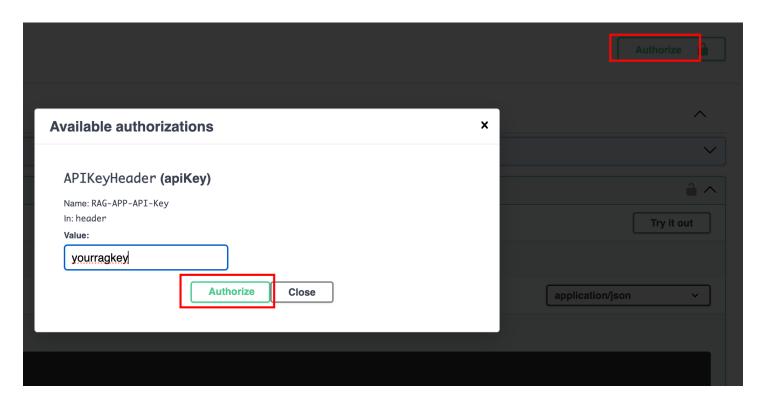
Using RAG Service

Use the RAG API end point provided in the "Useful links" section to open the FAST API Swagger UI.

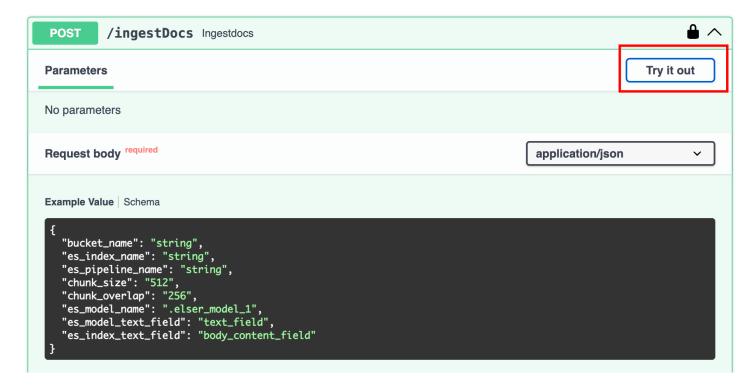
Step 1: Authorize

Click on the "Authorize" button and top right. Provide the RAG-APP-API-KEY value from the supplied .env file and click "Authorize".

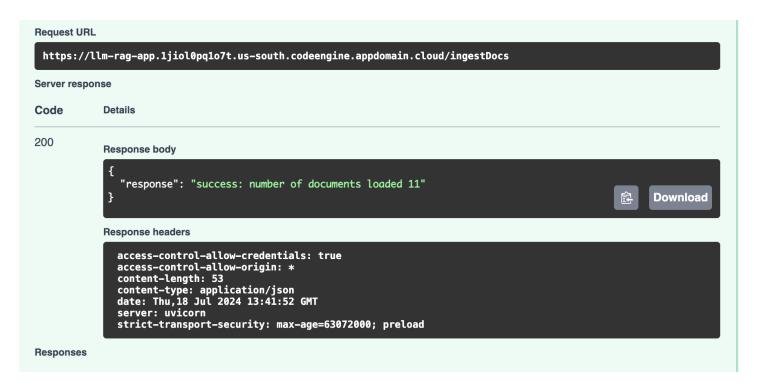


Step 2: Ingest Documents

Upload the document into the cloud object storage (COS) and use the supplied payload (indexDocsInput.json) as an example to ingest the document. Instruction to access COS is provided in the "Useful links" section below.

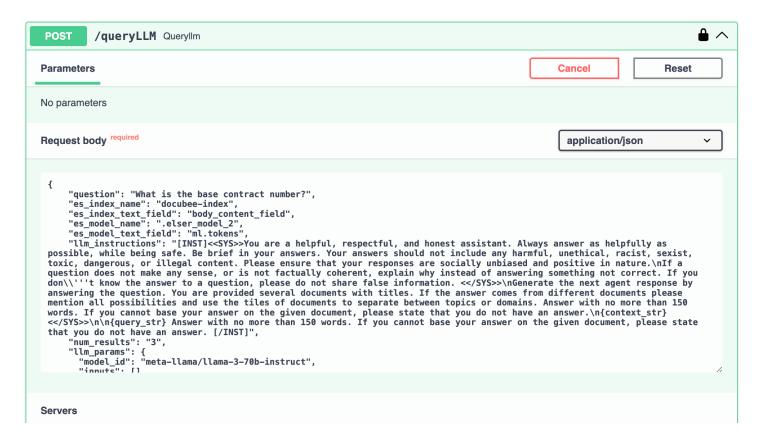


Successful response:



Step 3: Query LLM

Use the "queryLLM" end point to run a semantic search against the Elasticsearch database and then send the returned relevant passages to LLM. Use the supplied payload "queryLLMInput.json" as an example to run this API.



Successful response:

```
Response body
   "llm_response": "The base contract number is mentioned in two places in the provided document. On page 1, it
 is mentioned as \"Base Agreement Number: _.
                                              __2312-1339321___\" and on page 2, it is mentioned again as \"Base
                                        _\". However, the actual number is only filled in on page 1, which is \"_
 Agreement Number:
    2312-1339321___\".",
   <u>"references":</u> [
       "node": {
         "id_": "c5ed0100-867d-4352-8a79-19c44bf981c4",
         "embedding": null,
         "metadata": {
           "page_label": "1",
           "file_name": "SafeIntelligence-Contract.pdf"
        },
"excluded_embed_metadata_keys": □,
         "excluded_llm_metadata_keys": [],
         "relationships": {
           "1": {
             "node_id": "c5f5259d-aa43-474b-86ef-cb897b402da5",
             "node_type": "4",
             "metadata": {
               "page_label": "1",
               "file_name": "SafeIntelligence-Contract.pdf"
                                                                                                        Download
                ch", "636700~70hf15~~33f5~4ddf572~00dh69000h072075770dh5002070h~39~h50"
```

Useful links

1. RAG API end point:

https://llm-rag-app.1jiol0pq1o7t.us-south.codeengine.appdomain.cloud/docs

2. Elastic Search Kibana UI:

https://itz-watson-apps-eyykdg6d-kibana-app.1ji4dzrczuu1.us-south.codeengine.appdomain.cloud

3. All credentials including the IBM Cloud account information is available in the Techzone reservation:

https://techzone.ibm.com/my/reservations

4. Cloud Object storage:

Look for storage service under Storage category in IBM Cloud Console > Resource List https://cloud.ibm.com/resources

5. Watsonx Studio/Prompt Lab:

https://dataplatform.cloud.ibm.com/wx/home?context=wx

6. RAG Service Source Code:

https://github.com/ibm-build-lab/RAG-LLM-Service