

QuickStart: Analyze text content

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Get started with the Content Safety Studio, REST API, or client SDKs to do basic text moderation. The Azure AI Content Safety service provides you with AI algorithms for flagging objectionable content. Follow these steps to try it out.

ⓘ Note

The sample data and code may contain offensive content. User discretion is advised.

Prerequisites

- An Azure subscription - [Create one for free](#)
- Once you have your Azure subscription, [create a Content Safety resource](#) in the Azure portal to get your key and endpoint. Enter a unique name for your resource, select the subscription you entered on the application form, select a resource group, supported region, and supported pricing tier. Then select **Create**.
 - The resource takes a few minutes to deploy. After it finishes, Select **go to resource**. In the left pane, under **Resource Management**, select **Subscription Key and Endpoint**. The endpoint and either of the keys are used to call APIs.
- [Python 3.x](#)
 - Your Python installation should include [pip](#) . You can check if you have pip installed by running `pip --version` on the command line. Get pip by installing the latest version of Python.

Create environment variables

In this example, you'll write your credentials to environment variables on the local machine running the application.

💡 Tip

Don't include the key directly in your code, and never post it publicly. See the Azure AI services [security](#) article for more authentication options like [Azure Key Vault](#).

To set the environment variable for your key and endpoint, open a console window and follow the instructions for your operating system and development environment.

1. To set the `CONTENT_SAFETY_KEY` environment variable, replace `YOUR_CONTENT_SAFETY_KEY` with one of the keys for your resource.
2. To set the `CONTENT_SAFETY_ENDPOINT` environment variable, replace `YOUR_CONTENT_SAFETY_ENDPOINT` with the endpoint for your resource.

Windows

Console

```
setx CONTENT_SAFETY_KEY 'YOUR_CONTENT_SAFETY_KEY'
```

Console

```
setx CONTENT_SAFETY_ENDPOINT 'YOUR_CONTENT_SAFETY_ENDPOINT'
```

After you add the environment variables, you might need to restart any running programs that will read the environment variables, including the console window.

Analyze text content

The following section walks through a sample request with the Python SDK.

1. Open a command prompt, navigate to your project folder, and create a new file named *quickstart.py*.
2. Run this command to install the Azure AI Content Safety library:

Console

```
python -m pip install azure-ai-contentssafety
```

3. Copy the following code into *quickstart.py*:

Python

```
import os
from azure.ai.contentsafety import ContentSafetyClient
from azure.core.credentials import AzureKeyCredential
from azure.core.exceptions import HttpResponseError
from azure.ai.contentsafety.models import AnalyzeTextOptions

def analyze_text():
    # analyze text
    key = os.environ["CONTENT_SAFETY_KEY"]
    endpoint = os.environ["CONTENT_SAFETY_ENDPOINT"]

    # Create an Azure AI Content Safety client
    client = ContentSafetyClient(endpoint, AzureKeyCredential(key))

    # Construct request
    request = AnalyzeTextOptions(text="Your input text")

    # Analyze text
    try:
        response = client.analyze_text(request)
    except HttpResponseError as e:
        print("Analyze text failed.")
        if e.error:
            print(f"Error code: {e.error.code}")
            print(f"Error message: {e.error.message}")
            raise
        print(e)
        raise

    if response.hate_result:
        print(f"Hate severity: {response.hate_result.severity}")
    if response.self_harm_result:
        print(f"SelfHarm severity: {response.self_harm_result.severity}")
    if response.sexual_result:
        print(f"Sexual severity: {response.sexual_result.severity}")
    if response.violence_result:
        print(f"Violence severity: {response.violence_result.severity}")

if __name__ == "__main__":
    analyze_text()
```

4. Replace "Your input text" with the text content you'd like to use.

Tip

Text size and granularity

The default maximum length for text submissions is **10K** characters.

5. Then run the application with the `python` command on your quickstart file.

Console

```
python quickstart.py
```

Clean up resources

If you want to clean up and remove an Azure AI services subscription, you can delete the resource or resource group. Deleting the resource group also deletes any other resources associated with it.

- [Portal](#)
- [Azure CLI](#)

Next steps

Configure filters for each category and test on datasets using [Content Safety Studio](#), export the code and deploy.

[Content Safety Studio quickstart](#)