

# Setup Kafka clusters in UI

This is a guide to setting up the Kafka clusters using input provided in the text mining UI sidebar.

1. Navigate to the link for the text mining app ex:http://localhost:7860/
2. Click on "Choose server" in sidebar

The screenshot displays the CREXDATA web interface. On the left, a sidebar contains the CREXDATA logo and a 'Mandatory Kafka Setup' section with a warning icon. This section prompts the user to 'Enter kafka server details and click connect kafka'. It includes a 'Choose server' dropdown menu with 'crexdata-unauth' selected, a 'Bootstrap server' text field with 'server.crexdata.eu:9192', a 'kafka topic with relevant tweets' text field with 'text\_mining\_processed\_relevant\_tweets\_stream', and a 'kafka topic sending to ARGOS' text field. The main panel on the right has tabs for 'Crawler UI', 'Relevance UI', 'Question Answering UI', and 'DEBUG/LOG Console'. The 'Crawler UI' tab is active, showing a 'Start Crawl Instance' button and a 'Kill Crawl Instance' button. Below the 'Start Crawl Instance' button are three text input fields: 'Crawl Identifier' (with a placeholder example), 'X username for crawling' (with a placeholder example), and 'X email for crawling' (with a placeholder example). The 'Kill Crawl Instance' button is also visible, along with a text input field for the 'Crawl Identifier to kill'.

3. Set to "crexdata-auth" if using authenticated server.

Note: The authentication settings should have been previously configured. See README.md

CREXDATA

Critical Action Planning over Extreme-Scale Data

Mandatory Kafka Setup

Enter kafka server details and click connect kafka

Choose server

crexdata-unauth

crexdata-auth

✓ crexdata-unauth

kafka topic with relevant tweets

text\_mining\_processed\_relevant\_tweets\_stream

kafka topic sending to ARGOS

text\_mining\_to\_argos\_stream

rtmund\_20250611

X password for crawling account password

Gmail app access password

Crawl language

German

Tango

Created with Tango.us

4. Select "crexdata-unauth" if using an unauthenticated server.

CREXDATA

Critical Action Planning over Extreme-Scale Data

Mandatory Kafka Setup

Enter kafka server details and click connect kafka

Choose server

crexdata-auth

✓ crexdata-auth

crexdata-unauth

kafka topic sending to ARGOS

text\_mining\_to\_argos\_stream

kafka topic with relevant tweets for QA

text\_mining\_processed\_relevant\_tweets\_stream

rtmund\_20250611

X password for crawling account password

Gmail app access password

Crawl language

German

Tango

Created with Tango.us

5. The "Bootstrap server" field becomes visible if using an unauthenticated server.

Fill in the bootstrap server IP and port, ex: localhost:9092

Critical Action Planning over Extreme-Scale Data

Mandatory Kafka Setup ⚠️

Enter kafka server details and click connect kafka

Choose server  
crexdata-unauth ▼

Bootstrap server  

server.crexdata.eu:9192

kafka topic with relevant tweets  
text\_mining\_processed\_relevant\_tweets\_stream

kafka topic sending to ARGOS  
text\_mining\_to\_argos\_stream

kafka topic with relevant tweets for QA

rtmund\_20250611

X password for crawling account password  
.....

Gmail app access password  
Should be the app pass for th  
.....

Crawl language  
Only those supported by X  
German

Tango

Created with Tango.us

6. In the "Kafka topic with relevant tweets" field, you can set the Kafka topic used in the "Relevance UI" tab to get posts relevant to a weather crisis.

Note: This topic needs to already have posts classified as "fire" or "flood" using the event type prediction model.

mandatory kafka setup

Enter kafka server details and click connect kafka

Choose server

crexdata-unauth

Bootstrap server

server.crexdata.eu:9192

kafka topic with relevant tweets

text\_mining\_processed\_relevant\_tweets\_stream

kafka topic sending to ARGOS

text\_mining\_to\_argos\_stream

kafka topic with relevant tweets for QA

text\_mining\_processed\_relevant\_tweets\_stream

kafka topic crawler commands

Gmail app access password

Should be the app pass for the account

Crawl language

Only those supported by X

German

is of a running crawl

7. In the "Kafka topic sending to ARGOS" field, you can set the Kafka topic to send

posts to ARGOS.

Note: This topic should be monitored by the ARGOS app

crexdata-unauth

Bootstrap server

server.crexdata.eu:9192

kafka topic with relevant tweets

text\_mining\_processed\_relevant\_tweets\_stream

kafka topic sending to ARGOS

text\_mining\_to\_argos\_stream

kafka topic with relevant tweets for QA

text\_mining\_processed\_relevant\_tweets\_stream

kafka topic crawler commands

text\_mining\_crawler\_commands

kafka topic with crawler logs

\*\*\*\*\*

Crawl language

Only those supported by X

German

Tango

Created with Tango.us

8. In the "Kafka topic with relevant tweets for QA" field, you can set the topic used in the "Question Answering UI" tab to get posts relevant to a weather crisis for question answering.

server.crexdata.eu:9192

kafka topic with relevant tweets

text\_mining\_processed\_relevant\_tweets\_stream

kafka topic sending to ARGOS

text\_mining\_to\_argos\_stream

kafka topic with relevant tweets for QA

text\_mining\_processed\_relevant\_tweets\_stream

kafka topic crawler commands

text\_mining\_crawler\_commands

kafka topic with crawler logs

text\_mining\_crawler\_logs

kafka topic with processed tweets for latency

German

Tango

Created with Tango.us

9. In the "Kafka topic crawler commands" field, you can set the topic to send crawler commands.

Note: This topic should be configured in crawler component. (see X\_Crawler)

text\_mining\_processed\_relevant\_tweets\_stream

kafka topic sending to ARGOS

text\_mining\_to\_argos\_stream

kafka topic with relevant tweets for QA

text\_mining\_processed\_relevant\_tweets\_stream

kafka topic crawler commands

text\_mining\_crawler\_commands

kafka topic with crawler logs

text\_mining\_crawler\_logs

kafka topic with processed tweets for latency

text\_mining\_processed\_tweets\_stream

☐ Show latency plot

Tango

Created with Tango.us

10. In the "Kafka topic with crawler logs" field, you can set the topic to get crawler logs.

Note: This topic should be configured in crawler component. (see X\_Crawler)

text\_mining\_to\_argos\_stream

kafka topic with relevant tweets for QA

text\_mining\_processed\_relevant\_tweets\_stream

kafka topic crawler commands

text\_mining\_crawler\_commands

kafka topic with crawler logs

text\_mining\_crawler\_logs

kafka topic with processed tweets for latency

text\_mining\_processed\_tweets\_stream

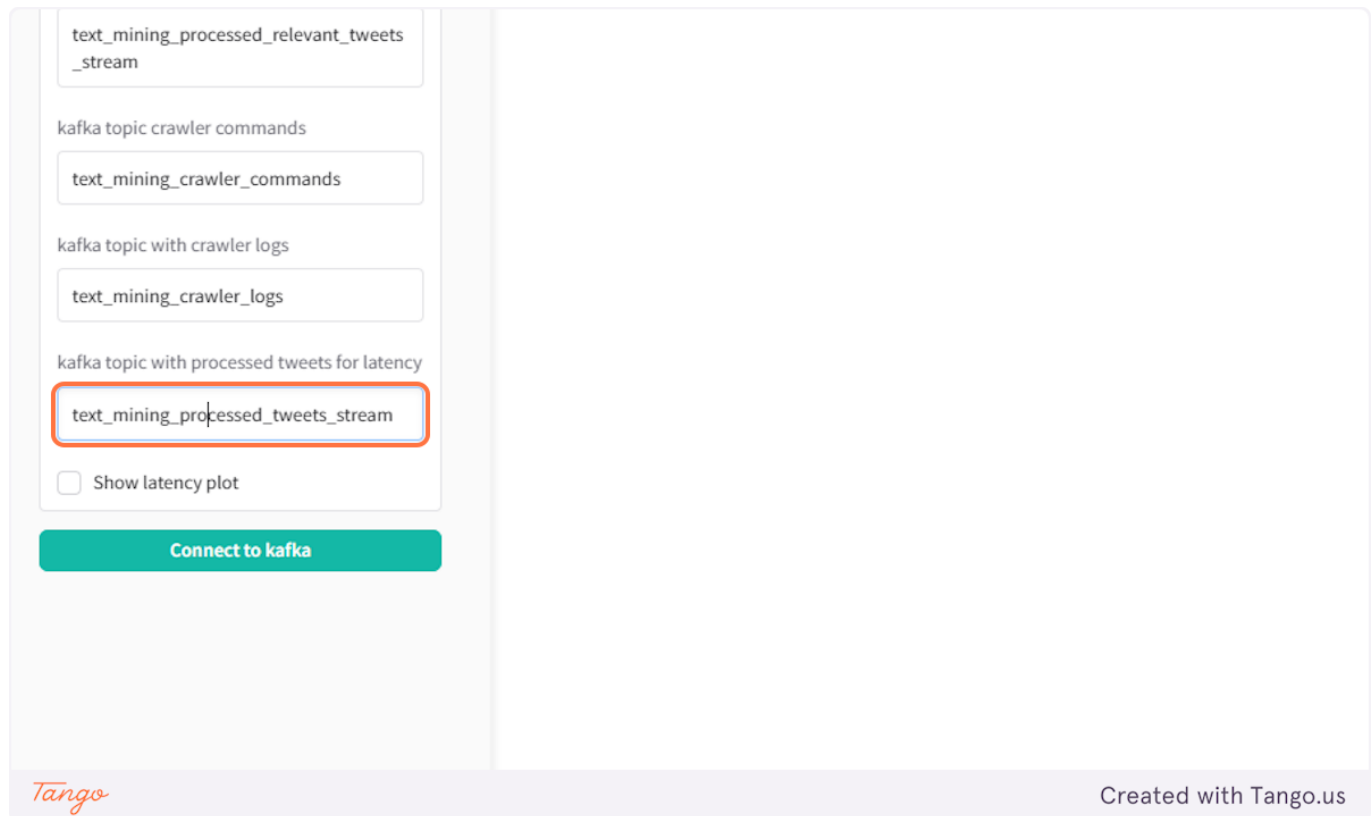
☐ Show latency plot

Tango

Created with Tango.us

11. In the "kafka topic with processed tweets for latency" field, you can set the topic with post processed by the event type prediction component. These posts have latency calculation and

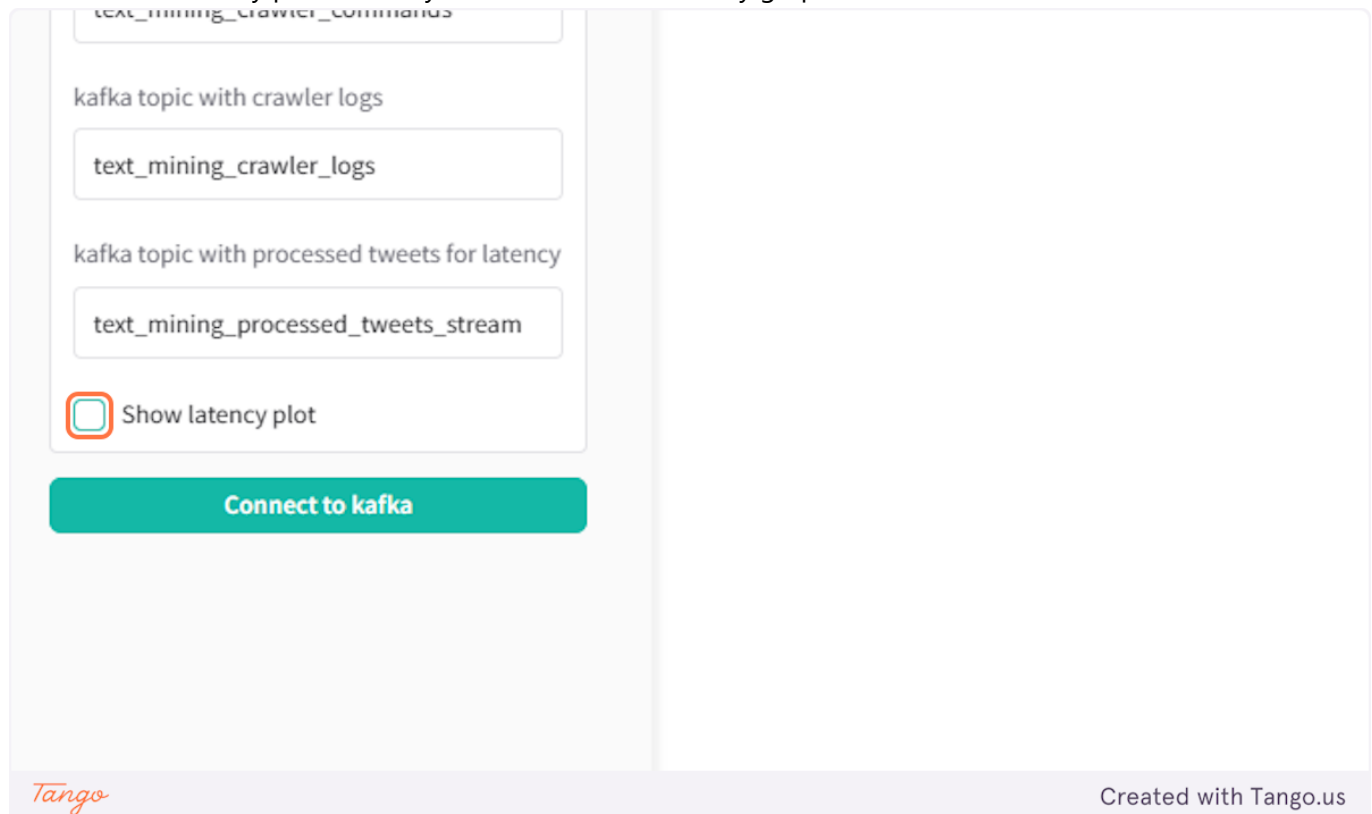
allow viewing a latency graph, for debug purposes.



The screenshot shows a configuration panel on the left side of a window. It contains several input fields for Kafka topics, each preceded by a label: 'text\_mining\_processed\_relevant\_tweets\_stream', 'kafka topic crawler commands' (with 'text\_mining\_crawler\_commands'), 'kafka topic with crawler logs' (with 'text\_mining\_crawler\_logs'), and 'kafka topic with processed tweets for latency' (with 'text\_mining\_processed\_tweets\_stream'). The last topic name is highlighted with a red rectangular box. Below these fields is a checkbox labeled 'Show latency plot' which is currently unchecked. At the bottom of the panel is a teal button labeled 'Connect to kafka'. The window has a light gray header bar with the 'Tango' logo on the left and 'Created with Tango.us' on the right.

12. Uncheck "Show latency plot" field if you don't want the latency graph on the "DEBUG/LOG Console" tab.

Check "Show latency plot" field if you don't want the latency graph on the "DEBUG/LOG Console" tab.



This screenshot shows the same configuration panel as the previous one, but with the 'Show latency plot' checkbox checked. The checkbox is now marked with a red square, and the entire checkbox area is highlighted with a red rectangular box. The other fields and the 'Connect to kafka' button remain the same. The window header bar still shows the 'Tango' logo and 'Created with Tango.us'.

13. Click "Connect to kafka" to finalize the config process and connect to kafka

clusters.

text\_mining\_crawler\_commands

kafka topic with crawler logs

text\_mining\_crawler\_logs

kafka topic with processed tweets for latency

text\_mining\_processed\_tweets\_stream

☐ Show latency plot

Connect to kafka

Tango

Created with Tango.us