

PLATFORM SETUP GUIDES / search-data-service-setup-guide



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PLATFORM SETUP GUIDES / Data search service setup guide

Introduction

This guide will walk you through the process of setting up the Search Data service using a Docker image.

Infrastructure prerequisites

Before proceeding with the setup, ensure that the following components have been set up:

• Redis - version 6.0 or higher



- Kafka version 2.8 or higher
- Elasticsearch version 7.11.0 or higher

Dependencies

- Kafka used for communication with the engine
- Elasticsearch used for indexing and searching data
- Redis used for caching

Configuration

Configuring Kafka

Set the following Kafka-related configurations using environment variables:

- SPRING_KAFKA_BOOTSTRAP_SERVERS address of the Kafka server
- KAFKA_TOPIC_DATA_SEARCH_IN
- KAFKA_TOPIC_DATA_SEARCH_OUT
- KAFKA_CONSUMER_THREADS the number of Kafka consumer threads

Configuring Elasticsearch

Set the following Elasticsearch-related configurations using environment variables:

• SPRING_ELASTICSEARCH_REST_URIS



- SPRING_ELASTICSEARCH_REST_DISABLESSL
- SPRING_ELASTICSEARCH_REST_USERNAME
- SPRING_ELASTICSEARCH_REST_PASSWORD
- SPRING_ELASTICSEARCH_INDEX_SETTINGS_NAME the index can be customized for data-search and it should be similar to what is configured on the process-engine

Configuring authorization & access roles

Set the following environment variables to connect to the identity management platform:

- SECURITY_OAUTH2_BASE_SERVER_URL
- SECURITY OAUTH2 CLIENT CLIENT ID
- SECURITY_OAUTH2_REALM

Configuring logging

The following environment variables could be set in order to control log levels:

- LOGGING_LEVEL_ROOT for root spring boot microservice logs
- LOGGING_LEVEL_APP for app level logs

Elasticsearch



Data search in Elasticsearch runs against an index pattern representing multiple indices. The index pattern is derived from the configuration property:

```
spring.elasticsearch.index-settings.name
```

Below is an example of a filter to be used in Kibana (as generated by data search):

```
{
 "query": {
    "bool": {
      "adjust_pure_negative": true,
      "boost": 1,
      "must": [
        {
          "nested": {
            "boost": 1,
            "ignore_unmapped": false,
            "path": "keyIdentifiers",
            "query": {
              "bool": {
                "adjust_pure_negative": true,
                "boost": 1,
                "must": [
                    "match": {
                      "keyIdentifiers.key.keyword": {
"auto_generate_synonyms_phrase_query": true,
                        "boost": 1,
                        "fuzzy transpositions": true,
                        "lenient": false,
                        "max_expansions": 50,
                        "operator": "OR",
                        "prefix_length": 0,
```



```
"query": "astonishingAttribute",
                         "zero_terms_query": "NONE"
                       }
                     }
                  },
                   {
                     "match": {
"keyIdentifiers.originalValue.keyword": {
"auto_generate_synonyms_phrase_query": true,
                         "boost": 1,
                         "fuzzy_transpositions": true,
                         "lenient": false,
                         "max_expansions": 50,
                         "operator": "OR",
                         "prefix_length": 0,
                         "query": "OriginalGangsta",
                         "zero_terms_query": "NONE"
                       }
                     }
                  }
                ]
              }
            },
            "score mode": "none"
          }
        },
        {
          "terms": {
            "boost": 1,
            "processDefinitionName.keyword": [
              "TEST_PORCESS_NAME_0",
              "TEST PORCESS NAME 1"
            ]
```



```
}
}

}
}

}
```

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