FLOWX.AI

PLATFORM DEEP DIVE / Core components / Core extensions / search-data-service

Contents

PLATFORM DEEP DIVE / Core components / Core extensions / Search data service

Search data is a microservice that searches for data in another process.

The new search data microservice enables you to create a process that can perform a search/look for data (using Kafka send / Kafka receive actions) in other processes.

> **TIP**
>
> Using elastic search, the new search microservice will be able to search for keys that are indexed in ES, via existing mechanics.

> **CAUTION**
>
> Elastic search indexing must be switched on the FLOWX.AI Engine configuration. You can find more details in the **Search data service setup guide**.

Using search data

Use case:

- search for data in other processes
- display results about other processes where the search key was found

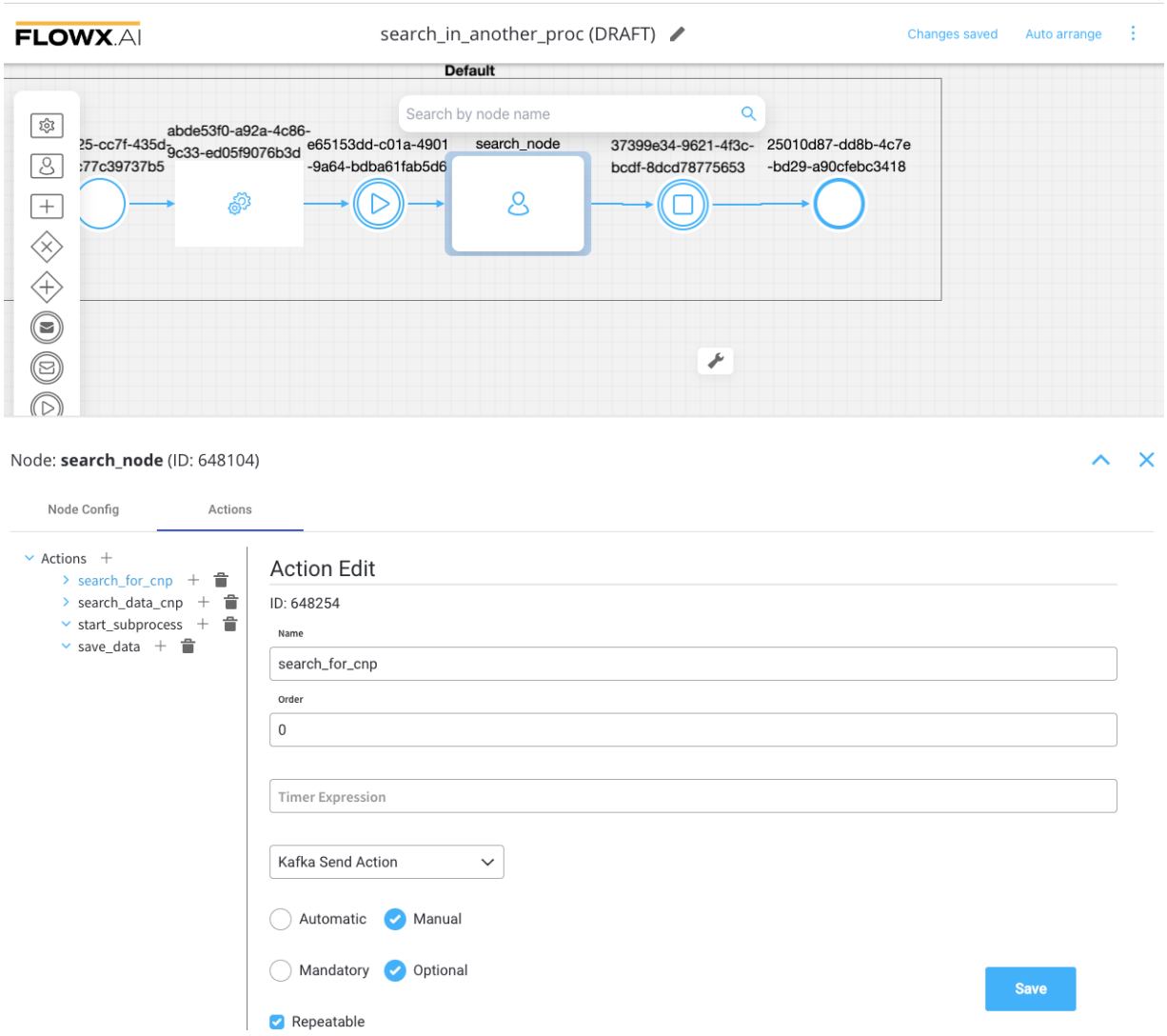
1. Create a process using

   The fallback content to display on prerendering

   .

2. From the newly created process where you want to perform the search, add a Task node.

3. Configure a send event via a Kafka send action.



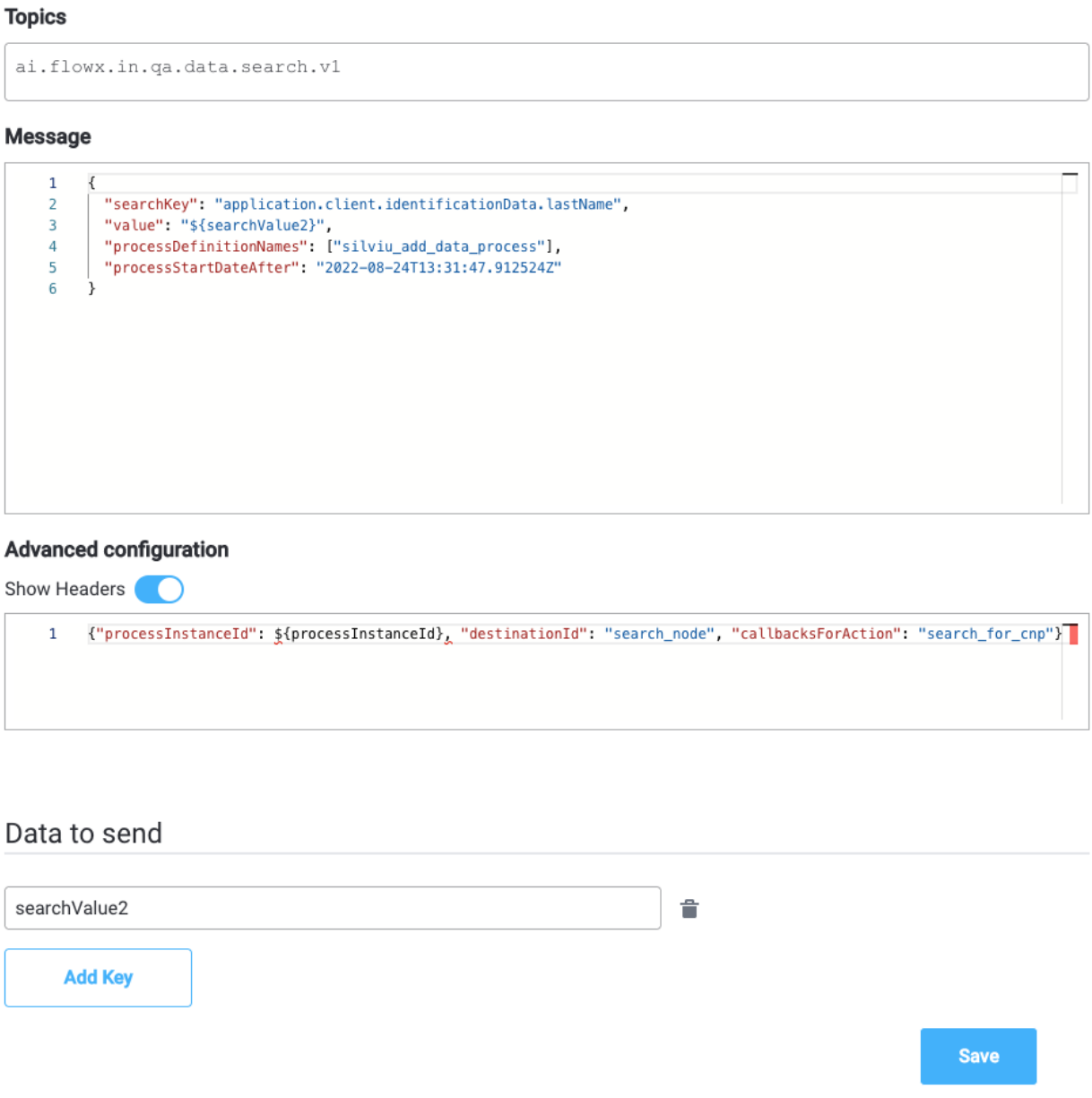
4. Configure the following items:

- **Topic name** - the Kafka topic on which the search service listens for requests; ❗ respect the naming pattern
- **Data to send** - (key) - used when data is sent from the frontend via an action to validate the data (you can find more information in the User Task configuration section)

- **Headers** - required
- **Body message**:
  - `searchKey` - it will hold the result received from the elastic search
  - `value` - value of the key
  - `processDefinitionNames` - the process definition names where to perform the search
  - `processStartDateAfter` - the service will look into process definitions created after the defined date

```
{
    "searchKey": "application.client.name",
    "value": "12344",
    "processStartDateAfter": "formatDeDataStandard", (opt)
    "processStartDateBefore": "formatDeDataStandard", (opt)
    "processDefinitionNames": [ "processDef1", "processDef2"
],
    "status": ["ANY",...]
}
```

- Example (dummy values extracted from a process):



5. A custom microservice (a core extension) will receive this event and will search the value of the process in the elastic search.
6. It will respond to the engine via a Kafka topic.

TIP

> The topic must be defined in the **Node config** of the **User task** where you previously added the Kafka Send Action.

The **body message** of the response will look like this:

```
! If there is no result:
```

```
{
    "searchKey": "application.client.name",
    "result": [],
    "processStartDate": date,
    "tooManyResults": true|false
}
```

- Example (dummy values extracted from a process):

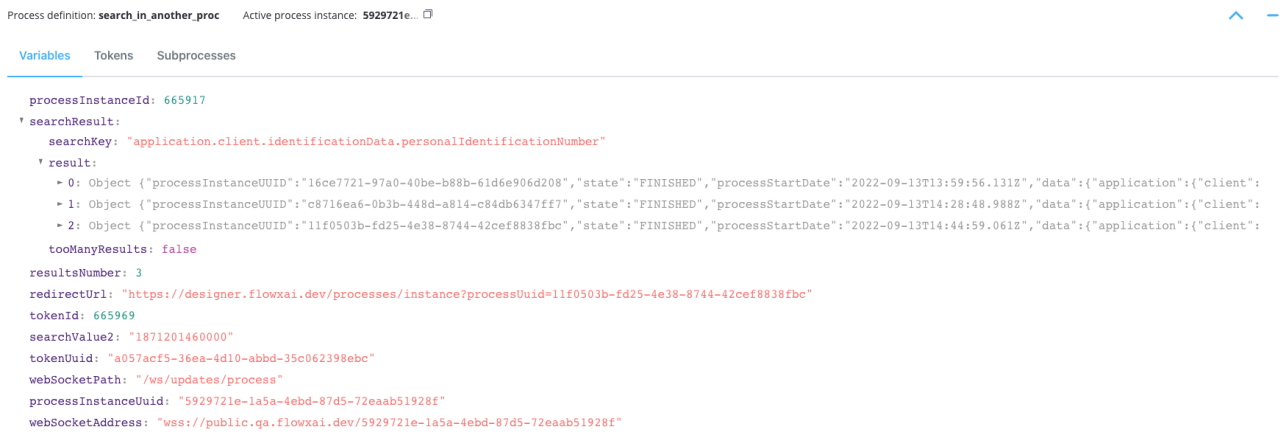
> **TIP**
>
> To access the view of your process variables, tokens and subprocesses go to **FLOWX.AI Designer > Active process > Process Instances**. Here you will find the response.

❗ If there is a list of results:

```
    "searchKey": "application.client.name"
    "result":[{
            "processInstanceUUID": "UUID",
            "status": "CREATED",
            "processStartDate": date,
            "data" : {"all data in elastic for that
process"}
    }],
    "tooManyResults": true|false
}
```

NOTE: You will receive up to 50 results - if `tooManyResults` is true.

- Example (dummy values extracted from a process):



Let's go now through the steps needed to deploy and set up the service:

» Search data service setup guide

Was this page helpful?