# PointFire Summarization

## Introduction

In this document you find the information on how you can install and configure the PointFire Summarization solution.

## Prerequisites

To get started, you need to have the following prerequisites in place:

- PnP Search Web Parts installed on your environment. More information: https://microsoft-search.github.io/pnp-modern-search/

- Azure Account which has access to create a new Azure OpenAI service

## Creating the Azure services

To make use of the PointFire Summarization, you will need to create a new Azure OpenAI service. Follow the next steps to configure it:

- Go to the Azure Portal: https://portal.azure.com/

- Create a new resource

- Search for **OpenAI**

- Select **Azure OpenAI**

- Fill in the required fields for the service and wait until it is created

- Once the service is created, open it in the Azure Portal

- Click on the **go to Azure AI Foundry portal**

- Click on the **model catalog** and deploy the following models:

  - gpt-4o-mini

  - gpt-35-turbo-instruct

- Once both of the models have been deployed, you can go to the **deployments** view, and click on one of them

- On the model overview, you can see the **target URI** and **key**. You will need to keep these settings for the configuration of the web part
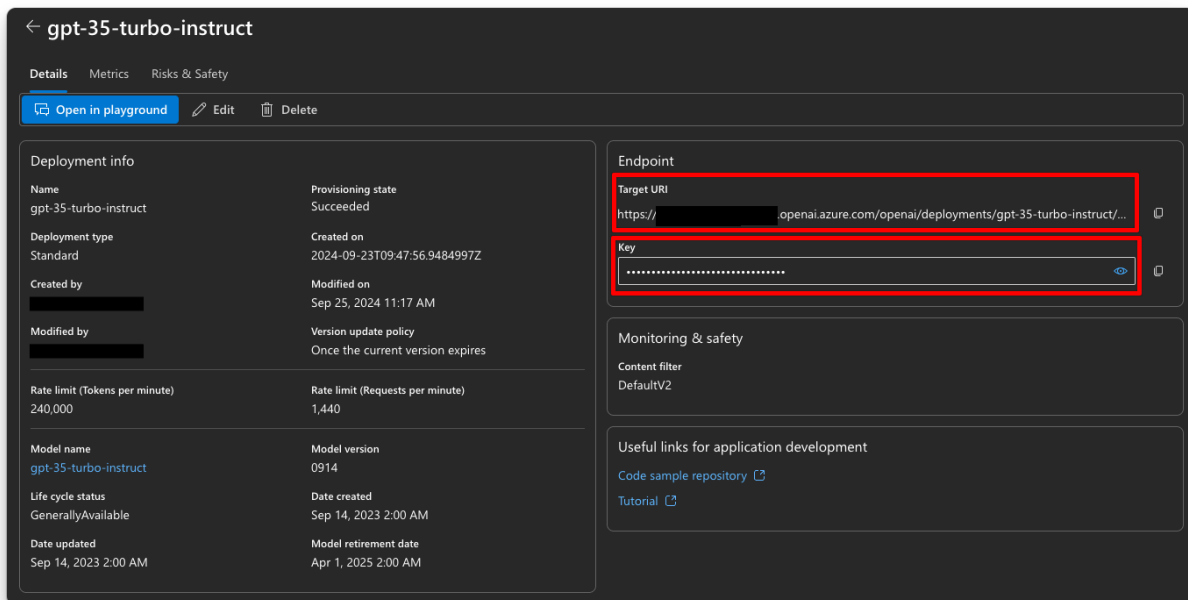


# Install the PointFire Summarization package

Follow the next steps to install the PointFire Summarization package:

- Go to your SharePoint App Catalog

- Add the **pointfire-document-summarization.sppkg** package to the catalog

- Allow it to be deployed to all site collections

- Once this step is completed, you can configure the solution

# Configuration of PointFire Summarization

Go to the SharePoint site where you want to have the page where you can search for documents.

Follow the next steps for the whole configuration:

- Create a new page or edit an existing one

- Add a **PnP - Search Box** web part on the page

- Add a **PnP - Search Results** web part on the page

- Edit the Search Results web part

- First, go to the last configuration page where you can load the extensibility library

- Click on the **configure** button under the **Extensibility libraries to load** section

- Configure the library as follows:

  - Default extensibility library can be turned off if you don't use it

  - Add a new record with:

    - **Name**: PointFire Summarization

    - **GUID**: 05a5f5a9-f2dc-4fe9-b58e-1429d6ec615e
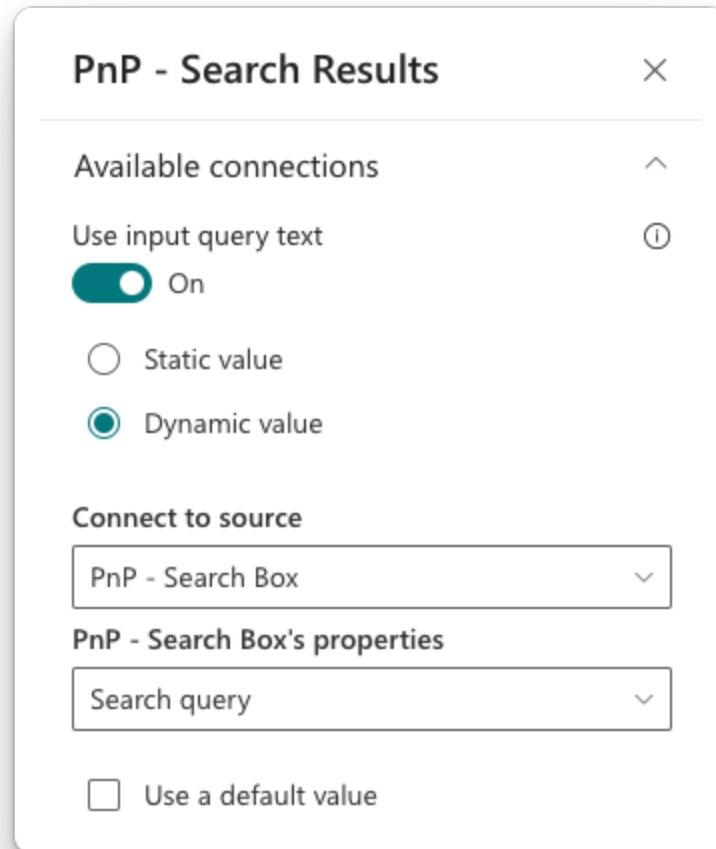
    - **Enabled**: on

  - Click on **add and save**

- Go back to the first page where you can select the **SharePoint Search** data source

- Configure the **SharePoint Search** settings as follows:

  - **Query Text**: {?{searchTerms} (isdocument:true)}

- Configure the **Paging options** as follows:

  - **Number of items per page**: 5

> All other settings can be left as default.

- Click on **next** to go to the template configuration

- Choose the **Summary** template (it can be that this is not yet available. If that is the case, save the page, refresh the page, edit the page, and open the web part settings.)

- Under the **Layout options** section, you should now see the following settings:

  - Open file in browser/desktop application

  - Wait for summary

  - Highlight keywords

  - AI URL

  - AI Key

  - Keywords AI model (default is: **gpt-4o-mini**)

  - Summary AI model (default is: **gpt-35-turbo-16k**)

  - Summary length (defines the length of the summary)

- Provide the **AI URL** in the following format: https://<service>.openai.azure.com

- Provide the **AI Key**

- Click on **next** to configure the search box connection

- To connect the search box web part, follow the next steps

- Enable **use input query text**

- Select **dynamic value**

- In the **connect to source** dropdown, select the **PnP - Search Box** web part

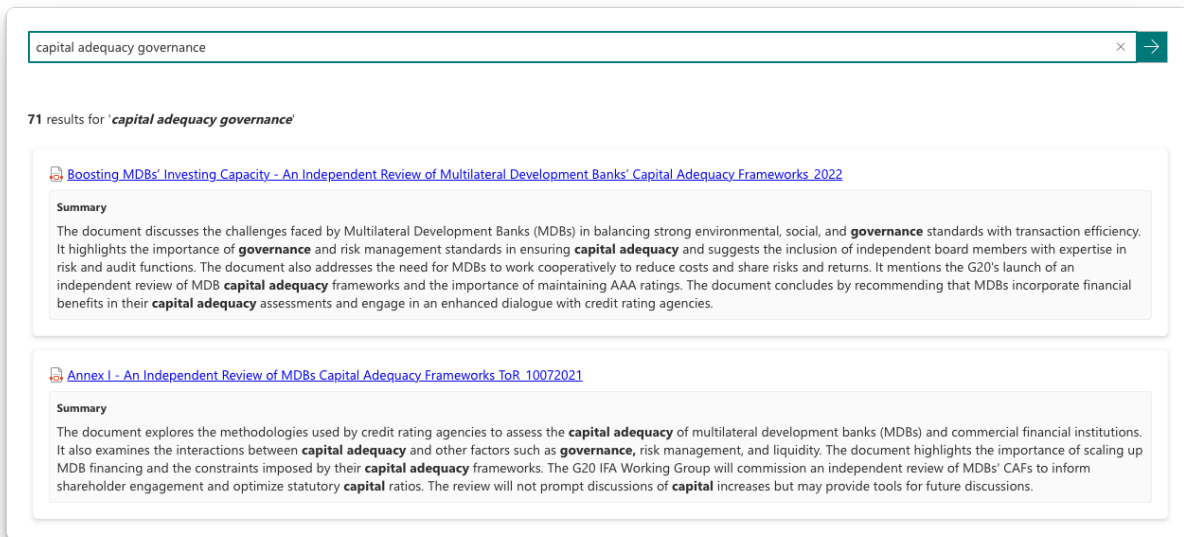- In the **PnP - Search Box's properties** dropdown, select **Search query**



- Save and publish the page. You are now done configuring the page.

When you now search for documents, you will receive document summaries for each results that gets returned.

> The summaries are created based on the extracted text from the document relevant to the search query.

# Using the summary component in your own templates

When you have the PointFire Summarization library installed and configured as explained in the previous steps, you are able to make use of the `pf-summarization-text` web component in your custom Handlebars templates.

The component requires the following configuration:

```
<pf-summarization-text
  data-index="{{@index}}"
  data-picture-thumbnail-url="{{item.PictureThumbnailURL}}"
  data-path="{{item.Path}}"
  data-site-url="{{#if item.SPSiteUrl}}{{item.SPSiteUrl}}{{else}}{{item.SPSiteURL]
  data-web-url="{{#if item.SPWebUrl}}{{item.SPWebUrl}}{{else}}{{item.SPWebU
```

```
    data-list-id="{{item.ListId}}"
    data-list-item-id="{{item.ListItemID}}"
    data-identity-list-item-id="{{item.IdentityListItemId}}"
    data-query="{{@root.inputQueryText}}"
    data-total-items-count="{{@root.data.totalItemsCount}}"
    data-sp-summary="{{slot item @root.slots.Summary}}"
    data-ai-url="https://<service-name>.openai.azure.com"
    data-ai-key="<service-key>"
    data-prompt=""
    data-wait-for-summary="true"
    data-model-keywords="gpt-4o-mini"
    data-model-summary="gpt-35-turbo-16k"
    data-summary-length="70"
    data-allow-pdf-conversion="true"
    data-allowed-file-extensions=""
    data-spinner-gap="{{ @root.theme.spacing.s1 }}"
    data-spinner-color="{{ @root.theme.palette.neutralPrimary }}"
    data-spinner-font-size="{{ @root.theme.fonts.small.fontSize }}"
    data-spinner-svg-size="{{ @root.theme.spacing.l1 }}"
    data-spinner-svg-color="{{ @root.theme.palette.themePrimary }}"
></pf-summarization-text>
```

The web component will only return a paragraph with the summary.