

**ABBYY**



# ABBYY Vantage

Deploying the Try Skill Demo Application

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# About the Try Skill demo application

Try Skill is a demo web application that shows how to invoke an ABBYY Vantage skill from another application.


Developers can use the source code of the Try Skill demo application to develop their own applications that will interact with ABBYY Vantage.

## System requirements

To deploy the Try Skill demo application, you first need to install **Node.js** and **Docker**.

The Try Skill application can be used with the following:

- Node.js 12 or later,
- Docker Desktop 18.03 or later (for Windows),
- Docker Engine 20.10.0 or later and Docker Compose (for Linux).

 **Note:** If you are using Linux, make sure you have a 3.8 or later kernel installed before you install Docker. Use the **uname -a** command to get the kernel version.

## Creating a Client



Before deploying the Try Skill demo application, you need to create a client in Vantage to use its data in a deployed application.

If the application is deployed on a cluster where Vantage is deployed, then it uses the default Public API Client data:

- **CLIENT\_ID** = ABBYY.TryAnySkill
- **CLIENT\_SECRET** = rvej6qBKtIW7PJ-N6zCCRsCBlvr2i5os8


If you want to deploy the application locally (outside of the Vantage cluster), you need to create a Public API Client.

To create a Public API Client, do the following:

1. Log in to Vantage using the tenant administrator credentials.
2. In the  **Configuration** tab in the left pane, click **Create API Client** or select **Add Client** in the **New Client** drop-down list.
3. In the dialog that will open, the Client ID and Client Secret of the created client will be displayed. You need to save their values by clicking the  icon next to them. Alternatively, you can click the **Save to File** button and specify a location where a TXT file containing the Client ID and Client Secret values will be saved.
4. Click **Close**.

After the above steps, you will automatically be navigated to the editing page for the created client. There, you need to do the following:

1. Set the name of the created client specified in the **Client Name** field.
2. Add a new redirect URL by clicking **+ Add Redirect URL**. For the Try Skill application, you need to add an address in "<https://<host>/try-any-skill/>" format, where the <host> is the address the Try Skill application will use.

 **Note:** The address has to follow the above format exactly, including all slashes. For example: <https://10.15.4.120/try-any-skill/> or <http://localhost:8081/try-any-skill/>.

3. Make sure that **Allow Authorization Code Flow** is marked in the **Allowed Flows** field.

This will create the Public API Client. You can use his data in the Try Skill application.

## Deploying Try Skill locally

To deploy the Try Skill demo application, perform the following steps:

1. Unzip the **Try Skill** archive file that you downloaded from the ABBYY Marketplace. Then navigate to the project directory using File Explorer or the cd command in the console or terminal.
2. In the `\client` folder, open the `.env` file using any text editor and specify the following:
  - In the **REACT\_APP\_PUBLIC\_API\_URL** property, enter the base URL for Vantage REST API. Depending on your region, this will be <https://vantage-eu.abbyy.com>, <https://vantage-us.abbyy.com>, <https://vantage-au.abbyy.com> or Vantage on-premises.
  - In the **REACT\_APP\_USE\_HTTPS** property, enter **True** if you want the application to be available at the address of the machine or the domain name via the HTTPS protocol, and **False** to run the app on localhost. The default value is **False**.
  - In the **REACT\_APP\_SSL\_CRT** and **REACT\_APP\_SSL\_KEY** properties, enter the names of the certificate files if the Try Skill application will be available at the address of the machine, or the domain name via the HTTPS protocol. The default values are **REACT\_APP\_SSL\_CRT=try-any-skill.local.crt** and **REACT\_APP\_SSL\_KEY=try-any-skill.local.key**. For information on where the certificates should be placed, see step 5.  
To access the application via localhost, the above parameters do not need to be filled in.
  - In the **REACT\_APP\_CLIENT\_ID** property, enter the client ID that you created in the previous section. The default value is **ABBYY.TryAnySkill**.
  - In the **REACT\_APP\_CLIENT\_SECRET** property, enter the client secret that you created in the previous section. The default value is **rvejf6qBKtIW7PJ-N6zCCRsCB1vr2i5os8**.
  - In the **REACT\_APP\_PRODUCT\_ID** property, enter the product ID. The default value is **a8548c9b-cb90-4c66-8567-d7372bb9b963**. You do not need to change this value.
  - In the **REACT\_GRANT\_TYPE** property, enter the authentication type. The default value is **authorization\_code**. You do not need to change this value.
  - In the **REACT\_SCOPE** property, enter the scope. The default value is **"openid permissions global.wildcard"**. You do not need to change this value.
3. Save the changes you have made to the `.env` file.

- By default, the Try Skill demo application is deployed at <http://localhost:8081>. If you need to specify another address and port, edit the **docker-compose.yml** file in the root directory of the project. Add the following settings to the file:

```
ports:
  - "<IP address>:<port>:8080"
```


For example:

```
ports:
  - "10.15.4.120:8081:8080"
```

- Set up a certificate if the Try Skill application will be available at the address of the machine or the domain name via the HTTPS protocol. You need to place the certificate files in a folder where the application will be able to access them. By default, the **certs** folder at the root of the project folder is used. You need to do the following:
  - Create a **certs** folder next to the **client** folder in the root folder of the project.
  - Place the .crt and .key files of your certificate in the folder.

You can also specify the name and path of the folder that should be used to obtain the certificate files. In the docker-compose.yml file in the **volumes** settings, specify the name of your folder as follows:

```
volumes:
  - ./certs:/etc/certs
```

 **Note:** Make sure the names of the certificate files in the folder match the certificate file names specified in the **REACT\_APP\_SSL\_CRT** and **REACT\_APP\_SSL\_KEY** properties.

- From the project directory, run the following command as an administrator:
 

```
docker-compose up -d (for Windows) or
sudo docker-compose up -d (for Linux).
```
- Once the command completes, open the Try Skill demo application at the address provided in step 4 and specify the credentials that were used to register your ABBYY Vantage account.

Now you can upload a document and select a skill that you want to try. The processing results will be available in the format that is specified in the skill.

- If a Classification Skill is used, the classification results will be contained in a JSON file.
- If a Document Skill is used, the results will be contained in two JSON files. The first file will contain all document data. The second file will contain the values of the extracted fields and the rule errors (if any). The name of the second file will end with "\_fields.json".
- If an OCR Skill is used, the formats of the result files will be those specified in the OCR Skill properties (JSON with OCR layer, PDF, TXT, DOCX, or XLSX).
- If a Process Skill is used, the result files will be those specified in the Output activity of that skill's properties.

## Specifications and limitations

The following image formats are supported:

- PDF

- GIF
- JBIG2
- JPEG
- JPEG 2000
- PNG
- TIFF
- Windows Bitmap
- HTML
- HTM
- TXT
- RTF
- ODT
- DOC
- DOCX
- DOCM

The following ABBYY Vantage skill types are supported:

- Document Skill
- Classification Skill
- Process Skill
- OCR Skill

ABBYY Vantage allows uploading files of up to 30 MB in size.

No thumbnails are displayed for some formats (e.g. PDF or TIFF).

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