Configure Blue Prism to use Director

> **Important information:**
>
> As part of this release into Blue Prism Cloud, Blue Prism is automatically configured with the Director API. The information provided below is for reference only.

To configure Blue Prism to use Director, you need to:

1. Set up a service account in Hub and generate a secret key.
2. Import the Blue Prism Director API to create the basic credentials and Web API Service.
3. Modify the credentials to use the Director service account in Blue Prism.
4. Configure the Web API to communicate with Director. This service includes the actions **Add to Queue**, and **Advise Next Best Item**, which can be used in your processes.

Set up a service account

To set up the Director API credentials in Blue Prism, a secret key is required. This is generated from the associated service account in Hub for use with the Director API. If you lose the key, you can regenerate another key from the service account. For more information, see Service accounts.

> Service accounts can only be created by a Hub administrator.

If you do not have a service account set up for the Director API, you can create a service account:

1. In Blue Prism Hub, on the Service accounts page, click **Add account**.
2. Enter a unique ID and a friendly name, for example, *Director*.

3. Under **Permissions**, select **Director API**.

4. Click **Create service account**.

   The Add a service account dialog displays with a generated secret key. You will need to enter this key into the Blue Prism interactive client when configuring the associated credential.

5. Copy the generated secret key to your clipboard ready to paste into the Blue Prism interactive client.


6. Click **OK** to close the dialog.

   The Service accounts page displays with the newly created account shown.

Import the Blue Prism Director API

1. Log into the Blue Prism interactive client, select **File** and click **Import** > **Release / Skill**.

    The Import Release dialog displays.

2. Click **Browse**.

3. Locate and select the Director .bprelease file. An example of the file name is *BP Director New Customer Package yyyy_mm_dd.bprelease*.

    For example:
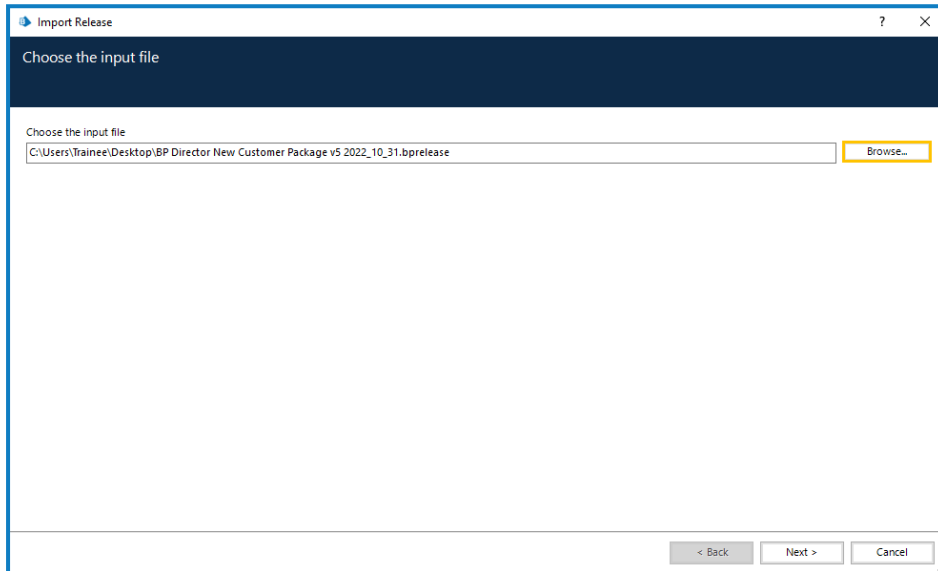
> 📝 The release file includes example credentials and the configuration for the Director API service. Once the import is complete, the credentials will need modifying to use the service account secret key.
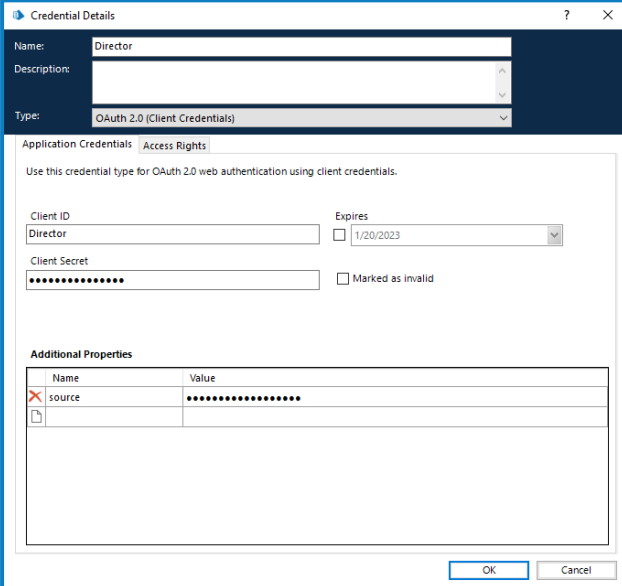
4. Click **Next**.

    A progress screen displays.

5. When the import has completed, click **Finish**.

Modify the credentials in Blue Prism

1. In Blue Prism, select **System** and then click **Security** > **Credentials**. See Security > Credentials for additional information.
2. Select **DirectorSvc** and click **Edit**.

    The Credential Details dialog displays.
3. On the Application Credentials tab of the Credential Details dialog:
    a. Change the **Type** to **OAuth 2.0 (Client Credentials)**.
    b. In **Client ID**, enter the ID that you used to create the service account above in Set up a service account on page 1.

        > 🖊 The client ID is case sensitive. You must ensure you enter the client ID in the same case as defined in the service account.

    c. In **Client Secret**, enter the secret key that was generated for the service account.
    d. Under **Additional Properties**, enter *bp-director:manage* as the **Source** value.

4. On the Access Rights tab of the Credential Details dialog, set up the required access permissions.
5. Set up the required access permissions on the Access Rights tab of the Credential Details dialog:
    a. On the **Security Roles** tab, select **System Administrators** or **All Roles**, as required.
    b. On the **Processes (legacy)** tab, select the processes that should have access to this credential, or **All Processes**.
    c. On the **Resources (legacy)** tab, select the resources that should have access to the credential, or **All Resources**.
6. Click **OK**.

Configure the Web API

> 🖊 If you need to configure Director, contact Blue Prism Cloud Support for the two URLs that are needed for this procedure; the Base URL (step 3) and the Authentication Server URL (step 4).

1. In Blue Prism, select **System** and then click **Objects** > **Web API Services**.

2. Select **Blue Prism Director** and click **Edit Service**.

3. On the Web API: Blue Prism Director opening screen, in **Base URL**, enter the URL of the Director API service in the format:

   `<Director URL>:<port if specified during install>/api/blueprism-decision`

   For example, `https://director.blueprism.com:5002/`

   Or, if the default port was used, `https://director.blueprism.com/`

4. Select **Common Authentication** in the navigation tree, then complete the following:

   a. Ensure that **Authentication Type** is set to **OAuth 2.0 (Client Credentials)**.

   b. In **Authorization URI**, enter the Authentication Server URL in the format:

      `<Authentication Server URL>:<port if specified during install>/connect/token`

      For example, `https://authentication.blueprism.com:5000/connect/token`

      Or, if the default port was used, `https://authentication.blueprism.com/connect/token`

   c. In **Credential**, select the credential you created in Modify the credentials in Blue Prism on the previous page.

5. Click **OK** to save and complete the setup of the Web API Service.