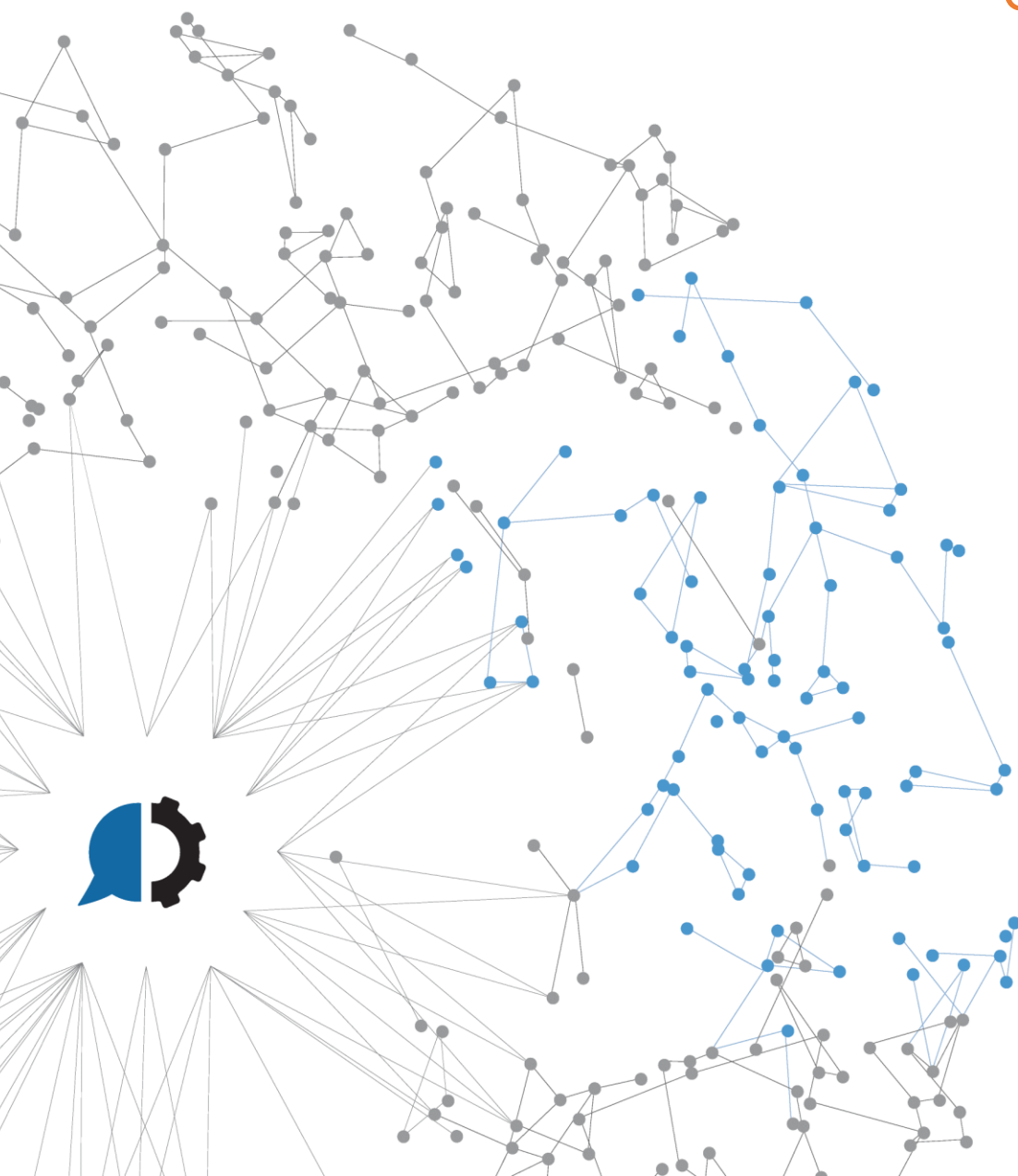




LINKEDIN BOT

GENERATE TOKEN





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A blue graphic on the left side of the page, consisting of a series of vertical bars of increasing height from left to right, ending in an arrow shape.

OVERVIEW

This how to guide introduces the *LinkedIn Bot - Generate Token*. Instead of spending precious time and resources on repetitive, manual tasks, let Automate go to work and streamline your IT and business processes with robotic process automation. Automate can take over the manual steps which greatly reduces repetitive activities and improves the quality and consistency of the work. The top processes being automated are report generation, file movement, data import and export, and scheduling batch processing.

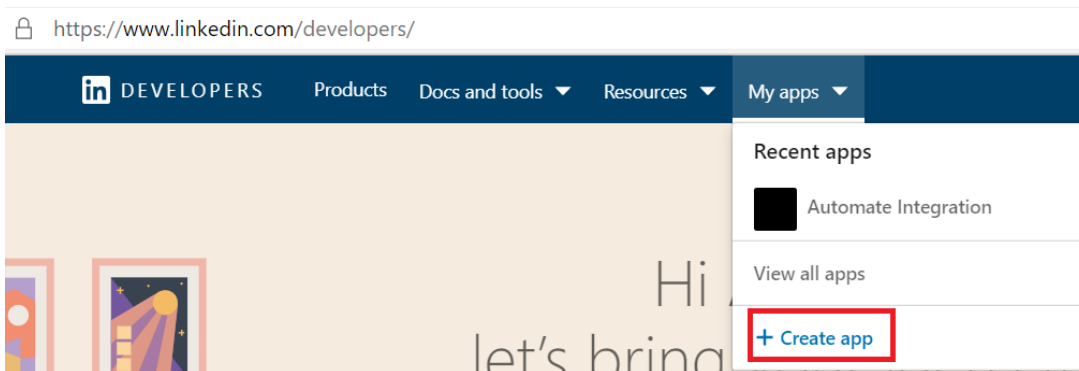
The *LinkedIn Bot - Generate Token* is based in the *LinkedIn Authorization Code Flow (3-legged OAuth)*. It executes the **OAuth2** access token request *“oauth/v2/accessToken”* to the URL provided by LinkedIn. It uses a *“grant_type”* parameter with *“authorization_code”* type for the token generation. This bot doesn't support the generation of long expiration time token (using refresh token) as LinkedIn asks for the user to pass a LinkedIn internal authorization process to do so. However, the expiration time for the token is by default **60 days**. This means that the process of obtaining the authorization code and bot execution must be done before the token expires in order to have a valid token any time a LinkedIn Bot is executed.

Carefully check the [PREREQUISITES](#) and the [HOW TO EXECUTE THE LINKEDIN BOT - GENERATE TOKEN](#) sections to get detailed information.



PREREQUISITES

- **Automate:** The LinkedIn Bot depends on Automate software in order to work. The minimal supported versions are:
 - [Automate Ultimate 11.2](#)
 - [Automate Plus 11.2](#)
 - [Automate Desktop 11.2](#)
- **Automate Markup Language file (.AML):** The primary file type used in Automate which contains the steps of our LinkedIn Bot task
- **LinkedIn:** Our minimal requirements are
 - **Create an application in LinkedIn:** You will need to create an application within the LinkedIn developer site to be able to configure the proper scope and requests for the token that will be used for the connections of other LinkedIn Bots. To do so, you need to login with your LinkedIn Account in <https://www.linkedin.com/developers>. Here you will find the option within the “My apps” menu for creating a new APP:





Then you will need to fill in some information for your app:

Create an app

* indicates required

App name*

Enter your app name

LinkedIn Page*

ⓘ This action can't be undone once the app is saved.

Enter a LinkedIn Page name / URL

The LinkedIn Page you select will be associated with your app. Verification can be done by a Page Admin. [Learn more](#)

[+ Create a new LinkedIn Page](#)

Privacy policy URL

Begin with http:// or https://

App logo*

This is the logo displayed to users when they authorize with your app



Upload a logo

Square image recommended. At least one dimension should be at least 100px.

Legal agreement

When you develop on our platform, you are agreeing to be bound by our [API Terms of Use](#).

☐ I have read and agree to these terms

One you click on the “Create App” button, you will get to the app configuration section. Next you will find the important configurations to be made. In the next example images we are using “Automate Integration” as the name of the App.

Configure your application to support the OAuth Authorization Code Workflow: Within the Application configuration screen, go to the **Auth** tab and set the **OAuth 2.0 settings**. You will be provided with the **Client ID** and the **Client Secret** (save them safely). You will need these values to set the Bot Configuration. You will find more information about the Authorization Code Flow (3-legged OAuth) [here](#).



Here you will be presented with the Client ID and Client Secret:

Automate Integration
Client ID: 78 | Created: Sep 4, 2020

Settings **Auth** Products Analytics Team members

Application credentials

Authentication keys

Client ID:

Client Secret:

.....

Remember to set the **redirect URL** as shown in next:

OAuth 2.0 settings

Token time to live duration

Access token: 2 months (5184000 seconds)

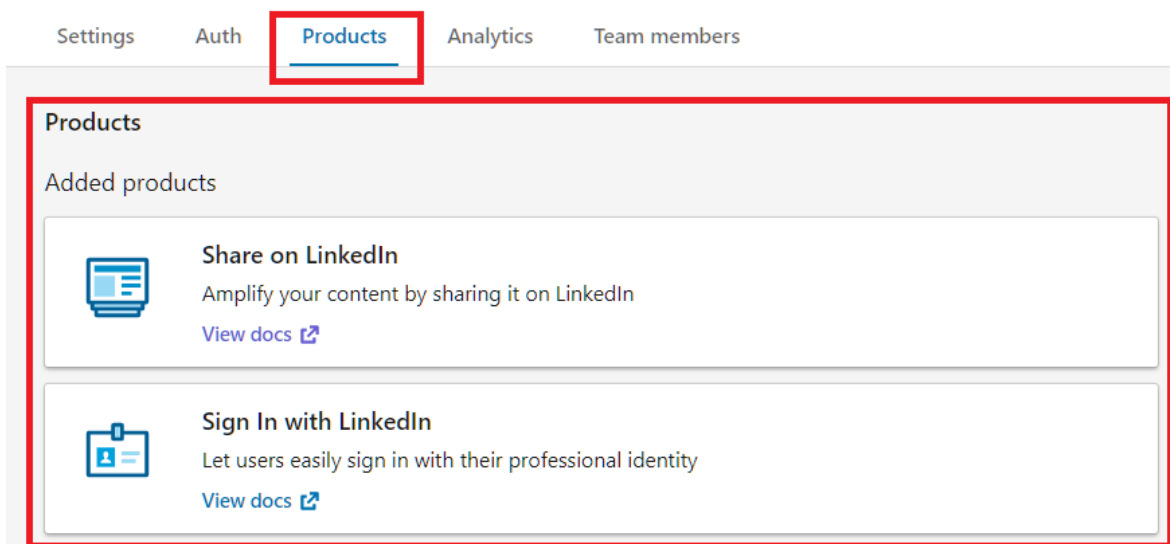
Authorized redirect URLs for your app

http://localhost

The URL will be used within the bot configuration.



Add the LinkedIn products to your App: Within the Application configuration screen, go to the **Products** tab and add the products that you need. In this image example we added the **“Share on LinkedIn”** and the **“Sign in with LinkedIn”** products. You’ll find an explanation of what they are used for in the next image:



These products are directly related to the App Scopes associated. For example, to have access to the LinkedIn **“w_member_social”** scope within your app, you will have to add it before the **“Share on LinkedIn”** product. This scope will allow you to share content in LinkedIn.

It is important that you add the product before the process of generating the Authorization Code. If not, it will fail with an error saying that the scope is not authorized.

OAuth 2.0 scopes

- Scopes define what your app can do on a user's behalf.
- The OAuth consent screen will display descriptions to end users as they are seen below. Some variation may occur if your app has a custom OAuth experience.

r_emailaddress
Use the primary email address associated with your LinkedIn account

r_liteprofile
Use your name and photo

w_member_social
Create, modify, and delete posts, comments, and reactions on your behalf



- **Authorization Code for bot execution:** Once the application is created and configured you will be able to get the Authorization Code needed for bot execution. For this you will need to open in your browser a personalized URL (change the **##CLIENT_ID##** and **##REDIRECT_URI##** with yours) and you will receive the Aathorization code in your browser address bar. Note that in the URL we must specify the **scopes** needed and the redirect URI. In this example the scopes: **"w_member_social" and "r_liteprofile"**. You will need to provide your login information and once you accept the request permission, you'll get the Auth Code within your browser address bar.

Remember that the Code is associated to the username provide when login, as well the token generated with the Auth Code gotten. So, the token generated by using this authorization code will be associated with this username.

Next you can find an example of the request URL and how you get the code:

Request URL:

https://www.linkedin.com/oauth/v2/authorization?response_type=code&client_id=##CLIENT_ID##&redirect_uri=##REDIRECT_URI##&scope=w_member_social%20r_liteprofile

Authorization Code:

http://example.com/callback/?code=eyJ0eXAiOi...81QFsje43QVZ_gw&state=a39fh23hnf23

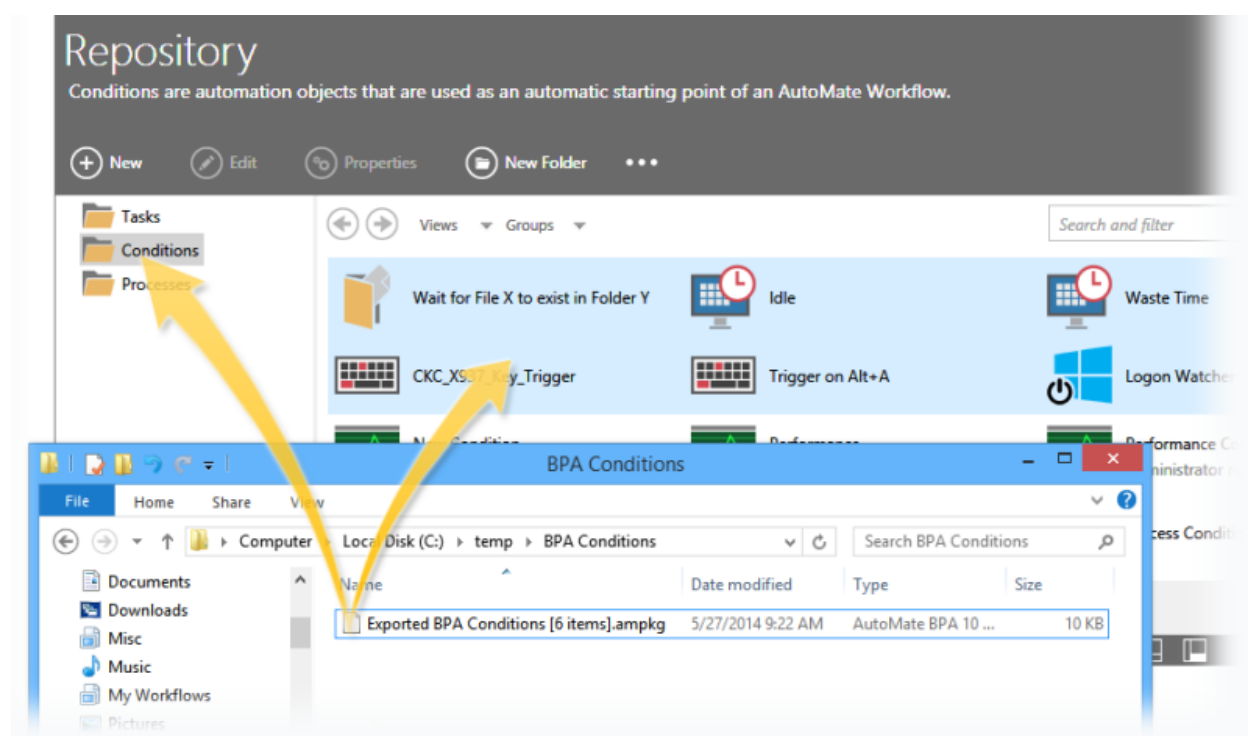


HOW TO IMPORT AN AUTOMATE TASK

Compatible file types can be imported to the repository via drag-and-drop

From the [Server Management Console](#), navigate to the Repository section

Drag the desired file(s) from its original location and drop them into the folder in the [SMC](#). Files can be dropped into the folder icon or the main panel (as shown below). Imported object(s) are automatically placed into their corresponding repository location.



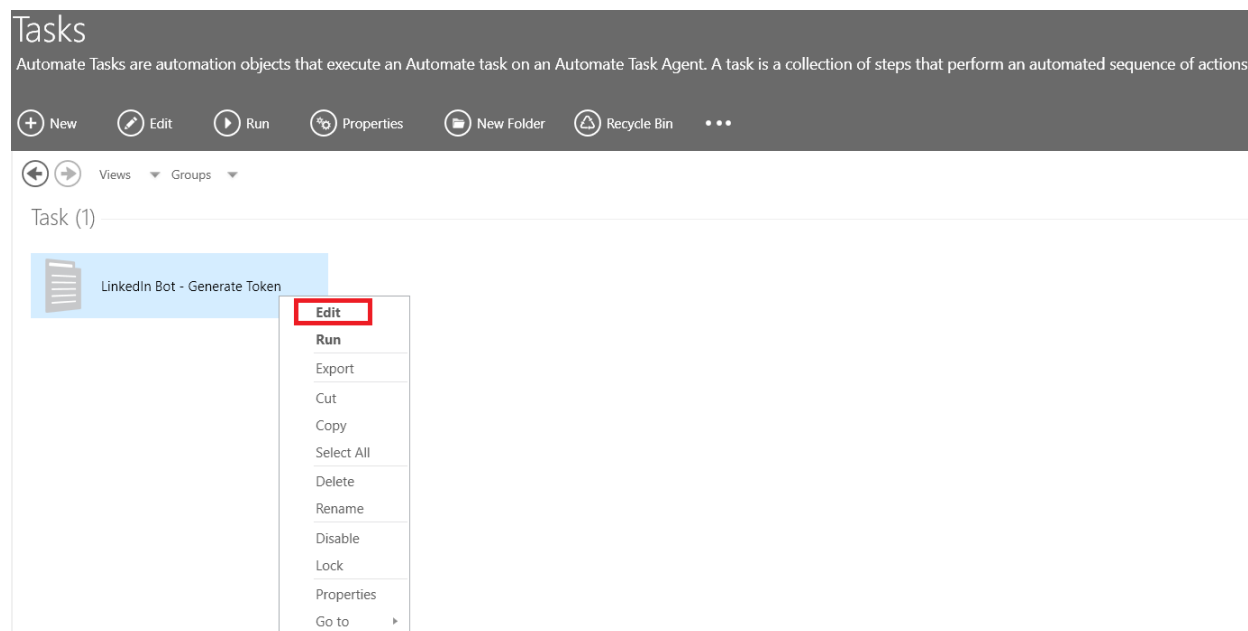


HOW TO EXECUTE THE LINKEDIN BOT - GENERATE TOKEN

If this is the first time running this task, we will need to set some parameters

Open the [Server Management Console](#) and locate the imported task

Edit the imported task by right clicking on the task and selecting [edit](#)



From [step 2](#) edit the next variables according to you desired output:

- **var_GetTokenURL:** The URL used to request a LinkedIn Token. It is set to the default URL provided by LinkedIn:
 - <https://www.linkedin.com/oauth/v2/accessToken>
- **var_AuthCode:** This is the Authorization Code gotten during the step-by-step provided by LinkedIn (mentioned in the prerequisites).
- **var_RedirectUri:** The URL for response redirection. By default, it is set to <http://localhost>.
- **var_ClientId:** This **ID** is unique to your app and is used for initiating OAuth. It is call *Application Integration Key* in LinkedIn.
- **var_ClientSecret:** This will be the **Client Secret** generated within the LinkedIn App that you created.
- **var_TokenFileOutput:** This will be the path and filename in which you want the bot to create the txt file with the token string generated.



Default:

C:\Automate\LinkedInToken.txt

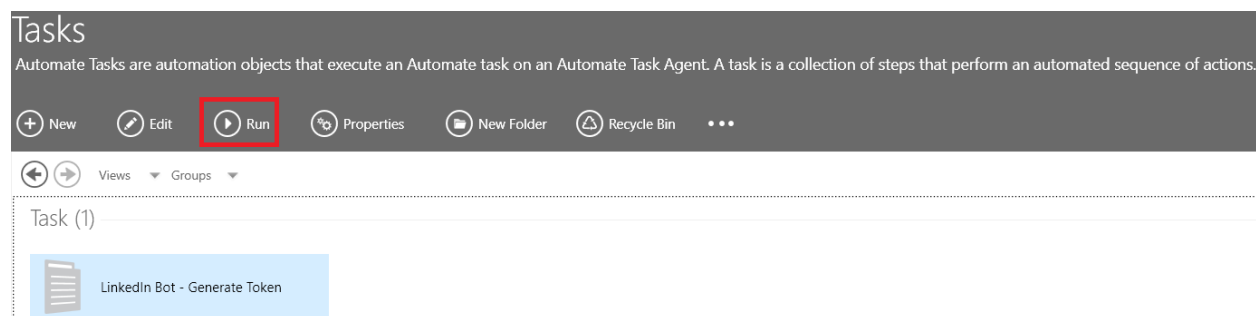
Here is an example of the content of the text file generated:



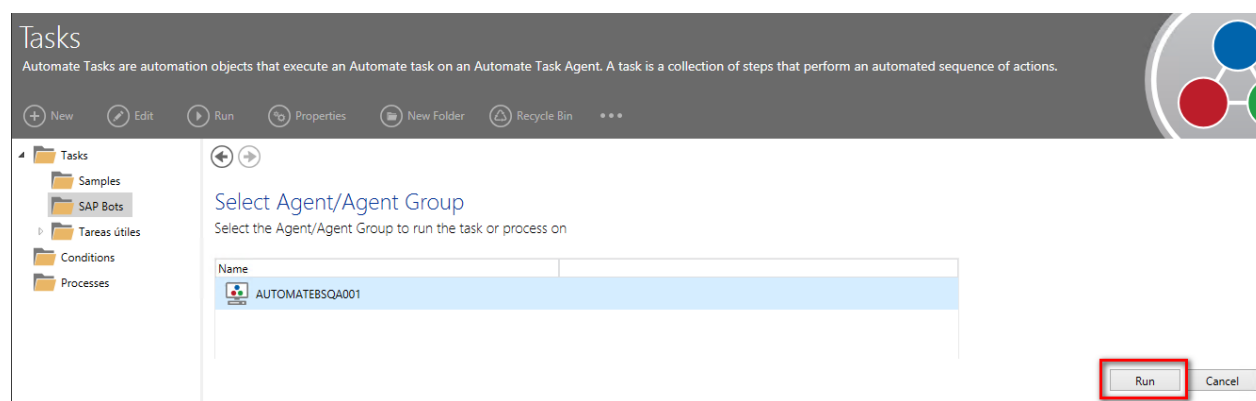
IMPORTANT: This bot does not get any refresh token to long time Token maintenance.

Save and close the task

Select the task and click on [Run](#)



Select your [Agent](#) and click on [Run](#) again





APPENDIX A - TROUBLESHOOTING

- Logs: Each iteration of our bot creates a log file for troubleshooting. You can locate the log file under C:\Automate\Tasks\<<TASK NAME>>. By Default, the task name is *LinkedIn Bot - Generate Token*.



About HelpSystems

Organizations around the world rely on HelpSystems to make IT lives easier and keep business running smoothly. Our software and services monitor and Automate processes, encrypt and secure data, and provide easy access to the information people