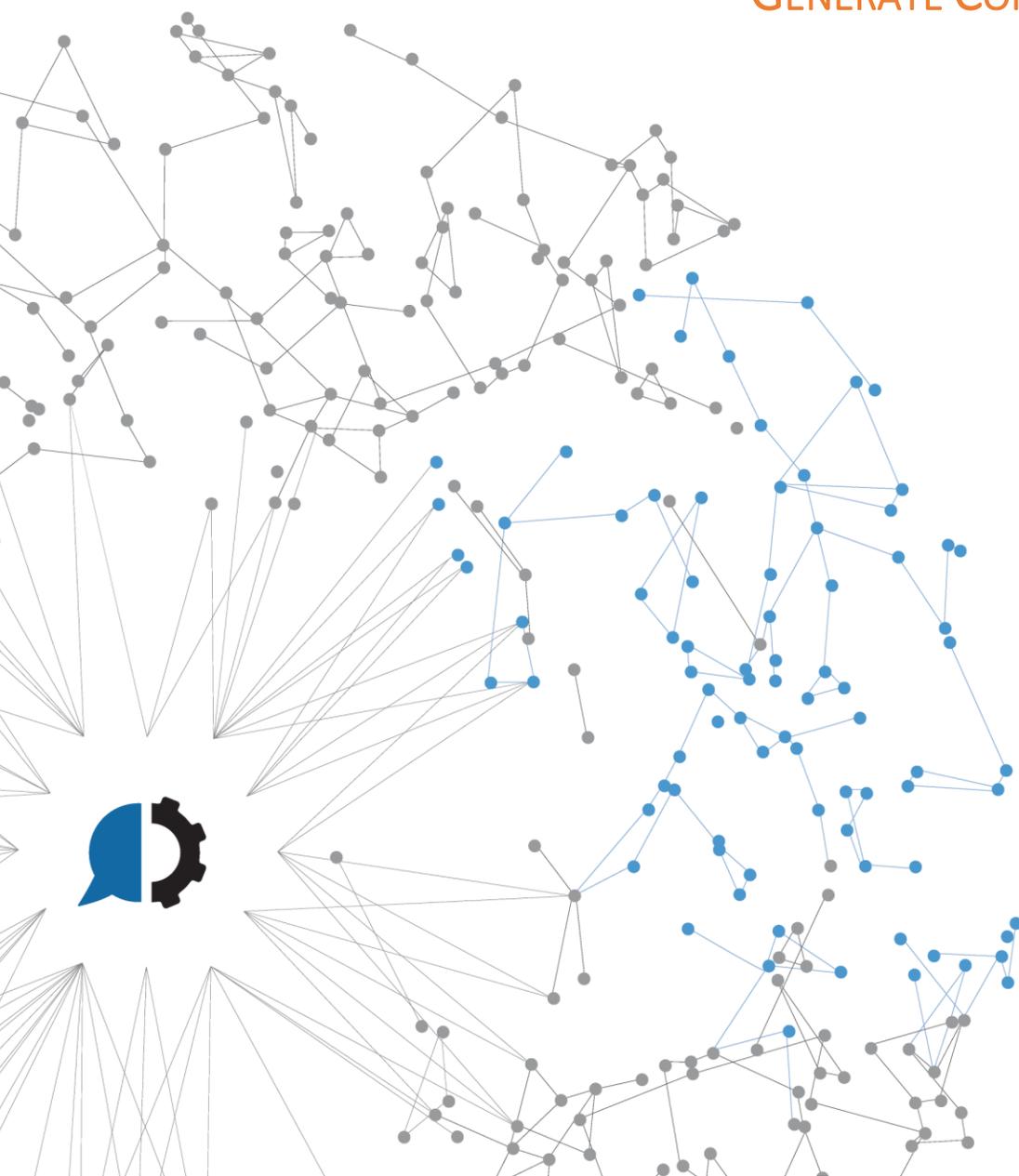




SALESFORCE BOT

GENERATE CONNECTION TOKEN





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OVERVIEW

This how to guide introduces the *Salesforce Bot - Generate Connection Token*. Instead of spending precious time and resources on repetitive, manual tasks, let Automate streamline your IT and business processes with robotic process automation. With the help of Automate, we can take over manual steps and greatly reduce the repetitive activities and improve 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.

Salesforce Bot - Generate Connection Token is based in the Salesforce REST API. It generates a **Oauth2** access token requesting the “*login.Salesforce.com/services/oauth2/token*” by using a password grant type. Carefully check the [PREREQUISITES](#) and the [HOW TO EXECUTE THE SALESFORCE BOT - GENERATE CONNECTION TOKEN](#) sections to get more detailed information.

This bot can be used to generate a token on a daily basis and work with any Salesforce bot.



PREREQUISITES

- **Automate:** The Salesforce 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 Salesforce Bot task
- **Salesforce:** Our minimal requirements are
 - **Salesforce REST API – Enabled:** You can check this by going to Salesforce Setup > Users (Administration) > Permission Sets > Salesforce CMS Integration Admin > System Permissions:

The screenshot shows the Salesforce Setup interface for the 'Salesforce CMS Integration Admin' permission set. The left sidebar contains navigation options like 'Users', 'Profiles', 'Public Groups', 'Queues', 'Roles', 'User Management Settings', 'Users', 'Data', 'Email', 'Platform Tools', 'Apps', 'Feature Settings', 'Einstein', 'Objects and Fields', 'Events', 'Process Automation', 'User Interface', and 'Custom Code'. The main content area is titled 'Permission Sets' and shows the 'System Permissions' for the 'Salesforce CMS Integration Admin' permission set. A table lists various system permissions with checkboxes for 'Enabled' and a 'Description' column. The 'API Enabled' row is highlighted with a red box, indicating that this permission is checked.

Permission Name	Enabled	Description
Access Activities	<input type="checkbox"/>	Access tasks, events, calendar, and email.
Apex REST Services	<input checked="" type="checkbox"/>	Allow access to Apex REST services
API Enabled	<input checked="" type="checkbox"/>	Access any Salesforce.com API.
Chatter Internal User	<input checked="" type="checkbox"/>	Use all Chatter features.
Enable Salesforce CMS Integration	<input checked="" type="checkbox"/>	Enable Salesforce CMS integration with any endpoint and allow user access t
Manage Analytics	<input type="checkbox"/>	Access all Analytics features.
Manage Health Check	<input type="checkbox"/>	Ability to create new custom health check baselines
Modify Metadata Through Metadata API Functions	<input type="checkbox"/>	Create, read, edit, and delete org metadata. Users must have appropriate acc
Password Never Expires	<input checked="" type="checkbox"/>	Prevent the user's password from expiring.
Run Flows	<input type="checkbox"/>	In this org, run any active flow. In Lightning communities, run any active flow t
Upload External Data to Analytics	<input type="checkbox"/>	Upload external data files through the Analytics user interface to create datas
Use Analytics	<input type="checkbox"/>	Run apps to which you have access; view their datasets, lenses, and dashbo
View All Lookup Record Names	<input type="checkbox"/>	View the record names in lookup fields regardless of sharing settings. Lookup
View Health Check	<input type="checkbox"/>	View Security Health Check Page
View Roles and Role Hierarchy	<input type="checkbox"/>	Allow user to view roles and role hierarchy.
View Setup and Configuration	<input type="checkbox"/>	View the App Setup and Administrative Settings pages.



- [Salesforce REST API – Connected App Created and OAuth Enabled](#): You can check the Salesforce documentation on how to create a connected application in this [link](#). Once you create and configure your connected app, it will look as follows:

SETUP **Manage Connected Apps**

« Back to List: Custom Apps

[Edit](#) [Delete](#) [Manage](#)



Version	1.0
API Name	AutoMate
Created Date	09/03/2020 12:30
By:	
Contact Email	
Contact Phone	
Last Modified Date	10/03/2020 12:23
By:	
Description	
Info URL	

▼ API (Enable OAuth Settings)

Consumer Key		Consumer Secret	Click to reveal
Selected OAuth Scopes	Access your basic information (id, profile, email, address, phone) Access and manage your data (api) Provide access to your data via the Web (web) Full access (full) Access and manage your Chatter data (chatter_api) Provide access to custom applications (visualforce) Perform requests on your behalf at any time (refresh_token, offline_access) Allow access to your unique identifier (openid) Access custom permissions (custom_permissions) Access and manage your Wave data (wave_api) Access and manage your Eclair data (eclair_api)	Callback URL	https://localhost
Enable for Device Flow	<input type="checkbox"/>	Require Secret for Web Server Flow	<input checked="" type="checkbox"/>
Introspect All Tokens	<input type="checkbox"/>	Token Valid for	0 Hour(s)
Include Custom Attributes	<input type="checkbox"/>	Include Custom Permissions	<input type="checkbox"/>

Note: From this configuration you will get some of the configuration values that you will need to configure this bot (Consumer Key and Consumer Secret). The Callback URL can be <https://localhost>



- **Salesforce OAuth Policies:** It is important to properly configure the OAuth Policies. Specifically, the permissions and the **IP Relaxation** options to permit a successful request. In here you can also configure the **refreshing token policy**. As shown in the next image:

Basic Information	
Info URL	Start URL
	Mobile Start URL
OAuth Policies	
Permitted Users	All users may self-authorize
Usage	View OAuth Usage
Single Logout	Single Logout disabled
Application Permissions:	Allow access to your unique identifier
	Perform requests on your behalf at any time
	Provide access to custom applications
	Access and manage your Eclair data
	Access your basic information
	Access and manage your Chatter data
	Access and manage your Wave data
	Full access
	Access custom permissions
	Provide access to your data via the Web
	Access and manage your data
	IP Relaxation: Relax IP restrictions for activated devices
	Refresh Token Policy: Refresh token is valid until revoked
Session Policies	
	Timeout Value
Custom Connected App Handler	
	Apex Plugin Class
	Run As

- **Salesforce User account** with the appropriate permissions to execute Salesforce API requests. It is recommended that you check the Salesforce documentation to give the user account the authority needed for this bot to work. You will find information related to the user account and the OAuth configuration in this [link](#).

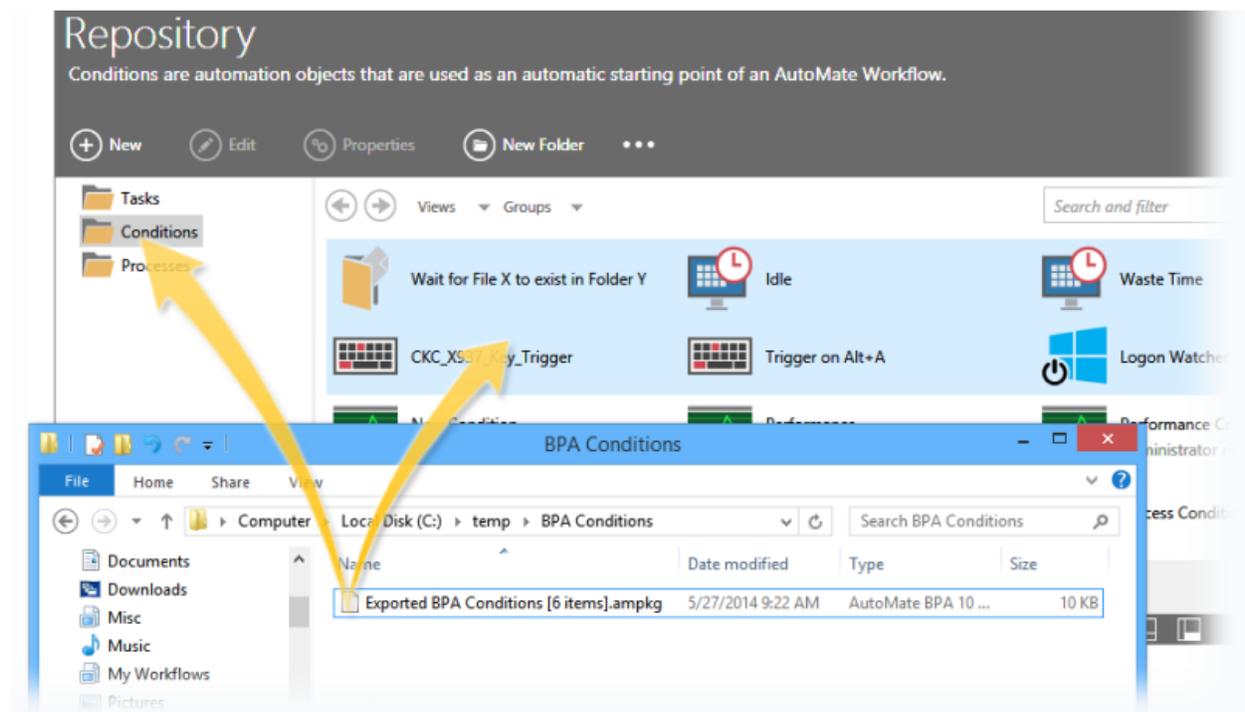


HOW TO IMPORT AN AUTOMATE TASK

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.



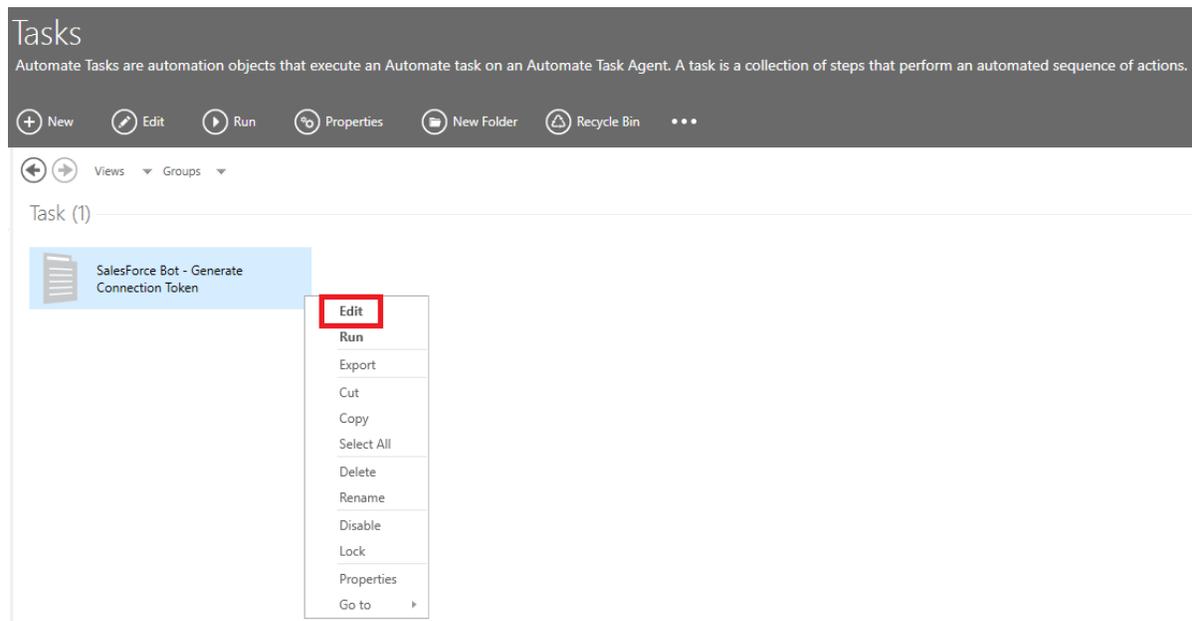


HOW TO EXECUTE THE SALESFORCE BOT - GENERATE CONNECTION TOKEN

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](#)



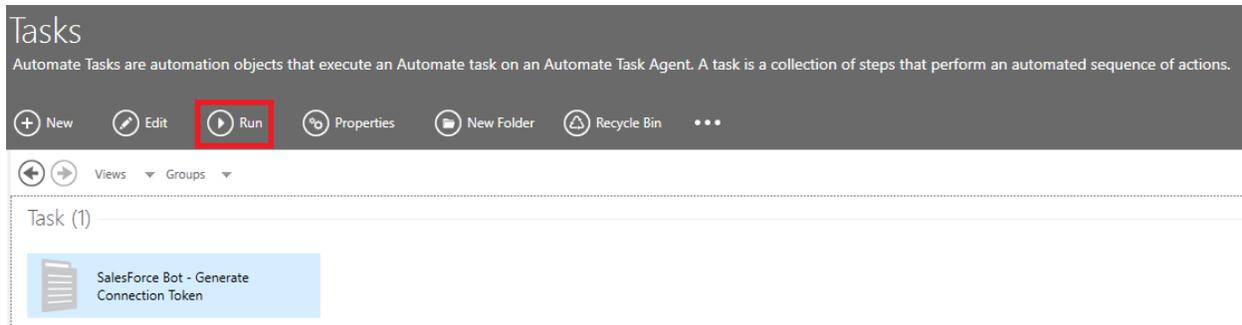
From [step 2](#) edit the next variables according to you desired output:

- **var_SalesForceTokenURL**: This is the URL used to request a Salesforce Token generation. By default, we use the “<https://login.salesforce.com/services/oauth2/token>” URL but you can change it. For example, for an instance configured with own domain: “<https://OwnDomain.My.salesforce.com/services/oauth2/token>”
- **var_client_id**: This will be the **Consumer Key** associated with the *Salesforce connected App* that you created.
- **var_client_secret**: This will be the **Consumer Secret** generated with the *Salesforce connected App* that you created.
- **var_username**: Username account to connect.
- **var_password**: Password account to connect.
- **var_SalesForceFileTokenOutput**: 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\SalesForceToken.txt**

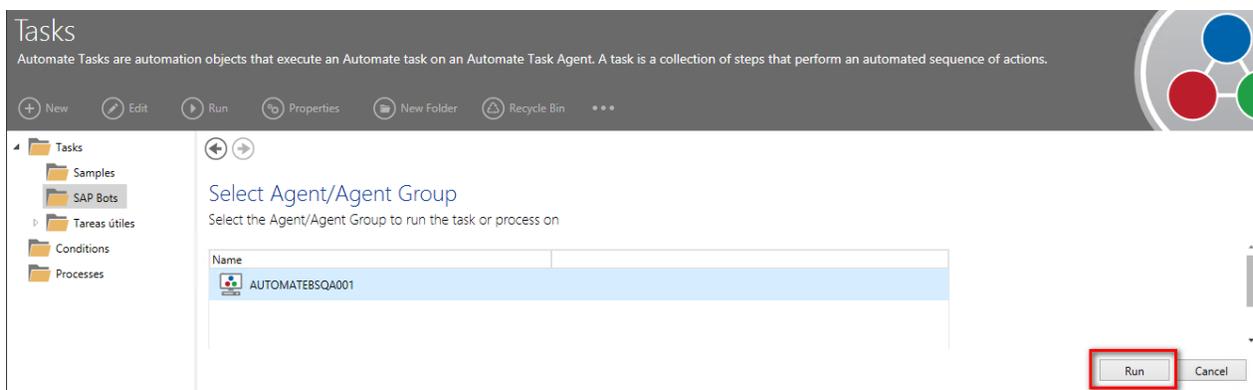
[Save and close](#) the task



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 *Salesforce Bot - Generate Connection Token*.



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