

OAuth Configuration in ServiceNow

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Contents

1.	Ab	out	. 2
2.	For	r Clients	. 2
	2.1	Get Access token	. 2
	Re	quest	. 2
		sponse	
		Use refresh token to get new access token	
		quest	
	Res	sponse	. 3
	2.3	Use access token for authentication of API	. 4
3.	For	r Admins	. 5
	3.1	Create a new Application registry	. 5
	3.2	To be noted	. 5
4.	Ref	ferences	. 6

1. About

To enhance the security of the ServiceNow instance in Equinor OAuth 2.0 will be included aklong with the basic authentication. This document explains about the configurations that needs to be made to use the APIs with basic OAuth 2.0 in ServiceNow. Also, explains the set up that needs to be done by the ServiceNow Admins.

2. For Clients

ServiceNow uses basic OAuth 2.0. Please ensure that you have a user name and strong password for Basic authentication to the instance exclusively created for the integration. Contact Equinor ServiceNow team if there is not user account.

2.1 Get Access token

Request

Use the following details to get Access token

API Endpoint: https://INSTACENAME.service-now.com/oauth_token.do

Method: POST

Enter body parameters as given below

grant_type: password

client_id: will be shared by ServiceNow Team
client_secret: will be shared by ServiceNow Team

username: user name of the integration **password:** password of the integration

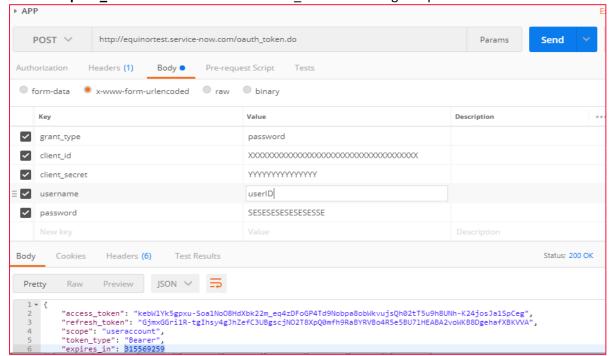
Response

The response will contain the following:

access_token: token for authentication when using any ServiceNow API

refresh_token: Token to be used when the access token expires

expires_in: this is the time of the access_token that will get expired. This will be in seconds.



2.2 Use refresh token to get new access token

Follow the below step to get the new access token by using refresh token received earlier.

Request

Use the following details to get Access token

API Endpoint: https://INSTACENAME.service-now.com/oauth_token.do

Method: POST

Enter body parameters as given below

grant_type: refresh_token

client_id: will be shared by ServiceNow Team
client_secret: will be shared by ServiceNow Team
refresh_token: refresh token received earlier

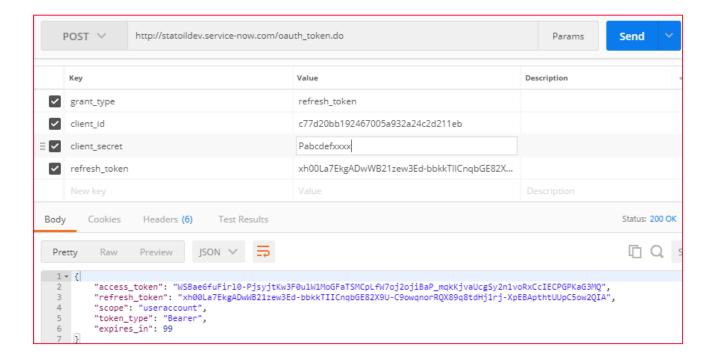
Response

The response will contain the following:

access_token: new token for authentication when using any ServiceNow API

refresh_token: Token to be used when the access token expires

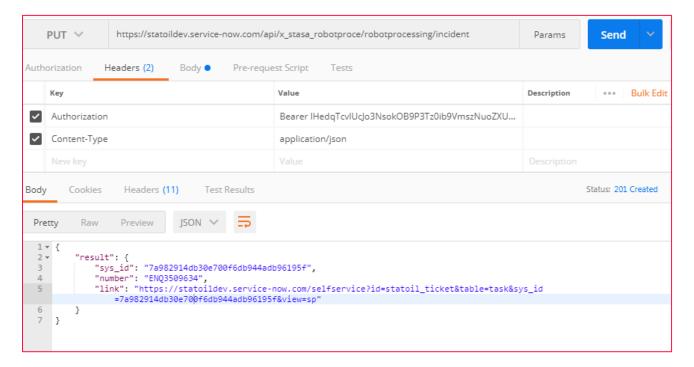
expires_in: this is the time of the access_token that will get expired. This will be in seconds.



2.3 Use access token for authentication of API

Access the ServiceNow table API or REST API by using the access_token for authentication.

To authenticate, enter the header Authorization as Bearer followed by the access_token as shown below in the image below.



3. For Admins

The below section will explain how to create a OAuth registry for an Integration. Create the registry in dev instance first and then export the xml to TEST and PROD to maintain uniformity.

3.1 Create a new Application registry

In application navigator go to System OAuth>Application Registry.

Click on new button and select Create an OAuth API endpoint for external clients.

Fill the form and submit.

Name: Enter a valid name, preferably the name of the integration

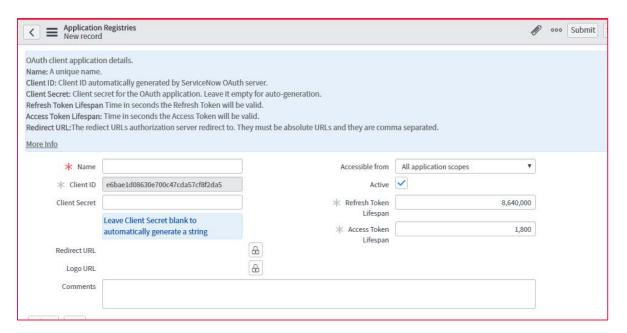
Client ID: Autogenerated by instance. To be shared with client

Client Secret: Enter a complex string having 20-bit in length. To be shared with client.

Comments: Enter the information about the integration and Point of contact of the integration.

Refresh Token Lifespan: Expiry time in seconds for refresh token. Set this value on discussion within the team and with the integration team. Default value is 8,640,000sec (default is 2400 hours)

Access Token Lifespan: Expiry time in seconds for refresh token. Set this value on discussion within the team and with the integration team. Default value is 1,800sec (30mins)



3.2 To be noted

Test the OAuth in a REST client to confirm that it works.

Share the Client ID and Client Secret in a secured email.

The configuration will be same on all instances, so export the xml from dev and import on other instances.

4. References

- 1. <u>Click here</u> to watch the video on ServiceNow OAuth setup and usage
- 2. <u>Click here</u> to go through the ServiceNow system documentation on OAuth 2.0