

Data Sheet

OAUTH Setup with Informatica to Snowflake

Step-by-Step Guide

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The OAuth (Open Authorization) protocol provides a secure and industry-standard framework for accessing resources between applications without sharing sensitive credentials.

When integrating **Snowflake** with **Informatica**, using OAuth ensures secure, token-based authentication to enable seamless data exchange.

This document outlines the steps to configure OAuth authentication between Snowflake & Informatica, ensuring secure and efficient data integration processes.



Key Benefits of Using OAuth for Snowflake and Informatica:

- Enhanced Security: OAuth eliminates the need to share and manage passwords, using access tokens instead.
- **Granular Permissions:** Provides fine-grained control over access, allowing tokens to be scoped for specific operations.
- **Compliance**: Aligns with modern security and compliance standards, ensuring best practices for data integration.
- Simplified Access Management: Streamlines authentication workflows by leveraging centralized identity providers (IDPs) or Snowflake's OAuth capabilities.

Pre-Requisites:

- Active Snowflake account with OAuth enabled.
- Informatica environment with the necessary permissions to configure OAuth.

Steps to be followed:

Step 1: Export Certificate Authorities (CAs) Using Chrome Browser

To proceed with downloading the certificate:

1. Access Certificate Options: Click on "Your certificate choices" (or a similar option visible in your browser).

OAUTH Setup with Informatica to Snowflake



Click on "Connection is secure" from options.

Certificate Viewer: app.snowflake.com		
General Details		
Issued To		
Common Name (CN) Organization (O) Organizational Unit (OU)	app.snowflake.com Snowflake Inc. <not certificate="" of="" part=""></not>	
Issued By		
Common Name (CN) Organization (O) Organizational Unit (OU)	DigiCert Global G2 TLS RSA SHA256 2020 CA1 DigiCert Inc <not certificate="" of="" part=""></not>	
Validity Period		
Issued On Expires On	Tuesday, October 1, 2024 at 5:30:00 AM Wednesday, October 29, 2025 at 5:29:59 AM	
SHA-256 Fingerprints		
Certificate f97f4	6a6c6f9dbb395fd2d00570778a22a82bbfa66061f61f24b2f1237	
Public Key 0493	23f54bb4b07de1e37311a84bd820de008c48ea3c59a0cc23a8c2 👻	



OAUTH Setup with Informatica to Snowflake

Click on Details.

Certificate Viewer: app.snowflake.com		
General Details	,	
Certificate Hierarchy		
DigiCert Global Root G2		
DigiCert Global G2 TLS RSA SHA256 2020 CA1	_	
app.snowflake.com		
Certificate Fields		
▼ app.snowflake.com		
Certificate		
Version		
Serial Number		
Certificate Signature Algorithm	-	
Field Value		
	Export	

Click on Digicert Global Root G2 and DigiCert Global G2 TLS RSA SHA256 2020 CA1 and click on export.

Step 2:

Import downloaded certificates from local machine to secure agent folder using below mentioned steps:

• Make sure you have installed Java and set the java home and path environment variables.

Open cmd (run as admin)/shell

- 1. Go to location [Secure Agent Root Dir]\apps\jdk [LatestVersion]\jre\lib\security
 - If this the above path does not exist, Go to location *[Secure Agent Root Dir]\jdk\jre\lib\security*

2. Run the following cmd in command prompt to view all imported certificates details:

• keytool -list -keystore cacerts



3. Refer to the following steps to import certificates into cacerts:

- Go to location [Secure Agent Root Dir]\apps\jdk\[LatestVersion]\jre\bin. If this the above path does not exist, Go to location [Secure Agent Root Dir]\jdk\jre\lib\security
- Run the following cmd in the command prompt: *keytool -import -keystore cacerts* -alias <Alias_Name> -file <certificate file location>

4. Then there would be a password prompt for the keystore password.

• Enter *changeit* and then enter yes to import the certificate.

5. Repeat the above command for all the CAs exported with different alias:

• Example: *keytool -import -alias rootCA -file C:\Root.cer -keystore* .../lib/security/cacerts -trustcacerts.

Step 3:

Open Snowflake and login with Account Admin Role and create new security integration with the code below:

```
CREATE or replace SECURITY INTEGRATION oauth_kp_int
TYPE = OAUTH
ENABLED = TRUE
OAUTH_CLIENT = CUSTOM
OAUTH_CLIENT_TYPE = 'CONFIDENTIAL'
OAUTH_REDIRECT_URI = 'https://dm-us.informaticacloud.com/ma/proxy/oauthcallback'
OAUTH_ISSUE_REFRESH_TOKENS = TRUE
OAUTH_REFRESH_TOKEN_VALIDITY = 86400;
```

Step 4:

Use the command to get description of Integration: desc integration oauth_kp_int;

Sesults ~ Chart				
	property	property_type	property_value	property_default
1	ENABLED	Boolean	true	false
2	OAUTH_REDIRECT_URI	String	https://dm-us.informaticacloud.com/ma/proxy/oa	
3	OAUTH_CLIENT_TYPE	String	CONFIDENTIAL	CONFIDENTIAL
4	OAUTH_ISSUE_REFRESH_TOKENS	Boolean	true	true
5	OAUTH_REFRESH_TOKEN_VALIDITY	Integer	86400	7776000
6	OAUTH_ENFORCE_PKCE	Boolean	false	false
7	OAUTH_USE_SECONDARY_ROLES	String	NONE	NONE
8	OAUTH_CLIENT_ID	String		
9	OAUTH_AUTHORIZATION_ENDPOINT	String		
10	OAUTH_TOKEN_ENDPOINT	String	C	
11	OAUTH_ALLOWED_AUTHORIZATION_ENDPOINTS	List	G	• 0
12	OAUTH_ALLOWED_TOKEN_ENDPOINTS	List		0
13	PRE_AUTHORIZED_ROLES_LIST	List		0
14	BLOCKED_ROLES_LIST	List	ACCOUNTADMIN,ORGADMIN,SECURITYADMIN	0
15	OAUTH_ALLOW_NON_TLS_REDIRECT_URI	Boolean	false	false
16	OAUTH_CLIENT_RSA_PUBLIC_KEY_FP	String		



Make sure role should be set to any role apart from AccountAdmin,OrgAdmin,SecurityAdmin in Snowflake.



Step 5:

Use below Statement to get client secret for integration created in snowflake. select system\$show_oauth_client_secrets('OAUTH_KP_INT');

K A SYSTEM\$SHOW_OAU... А റ \sim {"OAUTH_CLIENT_SECRET_2":"lo Uht90l5hLVrWVe2H+8PJqFvafRib p4FDUih4bM0WE=","OAUTH_CLIEN T_SECRET": "hXM9m8hVg3DoIufde WMSNmBw1VqJ5oN3zetpqRE8tdY=" , "OAUTH_CLIENT_ID": "+AVZayRD GG5Z8P1zqytpLKy93gk="}

Step 6:

Open Informatica's Administrator service and navigate to connections click on new connection.

Select connection type is snowflake data cloud and set authentication as snowflake datacloud.

Give necessary information as shown in picture below:



OAUTH Setup with Informatica to Snowflake

Connection Details		
Connection Name:*	Test_Conn_Snowflake_Oauth	
Description:		
Туре:* 🕜	Snowflake Data Cloud	
Runtime Environment:* 👔	z_NetApp ~	
Authentication: 0	Authorization Code 🗸	
Account:* 🕐	klb83313	
Warehouse:* 👔	COMPUTE_WH	
Authorization URL:* 👔		
Access Token URL:* 👔		
Client ID:* 🕐		
Client Secret:* 🕜	•••••	
Access Token:* 🕖	••••••	Generate Access Token

Step 7:

Generate Tokens from access tokens and new snowflake authentication prompt will popup.

Username Password	S con	ign in to Snowflake to tinue to OAUTH_KP_INT	
Password	Username		
	Password		
		Sign in	



Login snowflake with credentials to generate tokens.

Step 8:

Add Database and schema names in additional JDBC URL Parameters to make sure the connection point outs to particular Database and schema.

 Advanced Settings 	
Additional JDBC URL Parameters: 👔	db=TEST_DATABASE&STAGING=public
Scope: 🕐	
Access Token Parameters: 👔	
Authorization Code Parameters: 👔	
Refresh Token: 👔	•••••

Step 9:

Test the connections once necessary details are filled.

🗴 Test_Conn_Snowflake_Oauth	
The test for this connection was successful.	



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