# Enabling Client Credentials Grant for Box APIs

The **Client Credentials Grant** is a flow that allows secure server-to-server authentication without user intervention. This method is commonly used in applications that require automated access to Box resources.

# **Prerequisites**

- A Box account with administrative privileges.
- Access to the **Box Developer Console** to register an application.
- Enterprise Admin permissions for configuring application scopes.

# **Step-by-Step Process**

#### 1. Create a New Box App

• Log in to the Box Developer Console Go to Box Developer Console and log in with your Box credentials.



#### • Create a New App

Once logged in, click on the **Create New App** button.

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My Apps	Му Аррз	Creste New App

#### • Select "Custom App"

In the list of app types, choose **Custom App**.



#### • Name Your App

Provide a name for your app, then click Next.

	My Apps > Create New App	
My Apps        API Docs        SDKs       ? Community	Select an a Create a Custom App STEP 1 OF 2 Enter a name for your app. You can change the name later in General Settings. App Name Lusto LeenaBoxSandboxApp Best for integrati Server al App Created for Leena Al Integration	
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#### • Select "Server Authentication (Client Credentials Grant)"

After selecting the custom app, choose **Server Authentication (Client Credentials Grant)** for the authentication method. This is specifically for server-to-server authentication.

My Apps	Create New App		Θ Ω·
Select an a	Create a Custom App ×		Cancel
	Select an authentication method. Authentication Method	\$	
Custor Best for integrationserver an	<ul> <li>Server Authentication (with JWT)</li> <li>Best for building integrations or apps with external collaborators - Learn More</li> <li>The app authenticates using a JSON Web Token. Requires a public/private key-pair for added security.</li> </ul>	<b>Dx Custom Skill</b> st for apps that want to use an serval service to enrich content sh metadata	
<ul> <li>✓ Selectimeth</li> <li>✓ Selection</li> <li>✓ Selection</li> <li>scop</li> <li>✓ Creation</li> </ul>	User Authentication (OAuth 2.0) Best for building mobile or web apps - Learn More Users must authenticate with their Box login. Server Authentication (Client Credentials Grant) Best for societion and box office integrations.	Send content to a third party service based on updates to a file in Box Utilize a Box provided secure token for easy, secure data	
<ul> <li>✓ Publi or as</li> <li>✓ Requuser:</li> <li>✓ View</li> </ul>	best for Schung and back once integrations - Learn More     The app authenticates using Client ID and Client Secret. By clicking "Create App", you agree to the terms of the Box Developer Agreement and the Box Privacy Policy.	trasfer between services Create metadata on a Box file based on information from a third party service Cannot publish Skill to App Center	
	Back Cancel Create App	View Documentation	

## 2. Configure Application Scopes and Permissions

#### • Go to the "Configuration" Tab

Once your app is created, you will be directed to the app's overview page. Navigate to the **Configuration** tab.

LeenaBoxSandboxApp		
My Apps	General Settings Configuratio	n Webhooks Authorization App Diagnostics
API Docs	Manage authentication methods and app	permissions
SDKs		
⑦ Community	Authentication Method Choose how your app will authenticate to the Box APIs. Learn more.	OAuth 2.0 with Client Credentials Grant (Server Authentication)       • Best for scripting, prototyping, and back office integrations.         • The app authenticates directly to Box using a Client ID and Client Secret.       • Request authorization for Enterprise Access.         • The app has its own user generated upon authorization (Service Account user).       View Documentation

• Set Application Scopes

Scroll down to the **Application Scopes** section and enable the required scopes such as:

• Read all files and folders stored in Box



- These scopes allow your app to access Box data.
- Add Enterprise Permissions Scroll further down to find Advanced Features. Enable Perform Actions as Users.

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	API Docs	Manage authentication	methods and app pe	rmissions			Save C	hanges
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Community     Community     Manage Box Relay     Interact with Box Relay endpoints. Learn more about Box Relay APIs.						nore about Box Relay APIs.		
		Advanced Features Choose which advanced application requires. We should only be used for development. Learn mo	l features your minig: These server-side re.	<ul> <li>Make API calls usi</li> <li>Generate user acc Allows your applic credentials</li> </ul>	ng the as-user header ess tokens ation to generate anot?	er users' access tokens using a grant i	instead of requirin	g their

• Save Changes

After setting all the necessary scopes, click **Save Changes** at the bottom.

### 3. Generate the Client ID and Secret

• Client ID and Client Secret Under the Configuration tab, you will find your app's Client ID and Client Secret. These will be needed for OAuth authentication.

OAuth 2.0 Credentials	Client ID				
Credentials for using OAuth 2.0 as your Authentication type.	szw1jv23uw88ihk78qr1u0w3jsoi7pp1 COP				
	Client Secret				
	•••••	СОРҮ			

• **Copy these credentials** and store them securely, as the Client Secret will only be displayed once.

# 4. App Authorization

- Before the application can be used, a **Box Admin** needs to authorize the application within the **Box Admin Console**.
- Navigate to the Authorization tab for your application within the **Developer Console**.
- Click Review and Submit to send an email to your Box enterprise Admin for approval.

General Settings	Configuration	Webhooks	Authorization
Submit and manage y	your app's admin autho	prization	
Submit app for autho access to the Enterp	orization for rise	Review and Submit	
Submit your app for a the access requested receive an email of th will receive an email is approved or denied	approval based on I. Your admin will ne request. You once the request d.	You must re-submit you	ır app if any changes are made after submission

# 5. Authorize the App in the Box Admin Console

• Go to the Box Admin Console

Log in to the Box Admin Console and navigate to Enterprise Settings.

- Go to the Apps Tab Within Enterprise Settings, go to the Apps tab.
- Authorize the App

Scroll down to find the **Custom Apps** section and authorize your newly created app using the Client ID.

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al	Insights	Box Apps & Integrations	Custom Apps Manager 2					
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		CAM-app-2	April 11, 2022	bczyz+demo@boxdemo.com	Authorized	Reauthorize App		
						Delete App		
						View App Details		

## 6. Authenticate Using Client Credentials

#### • Use the Box API

With the **Client ID** and **Client Secret**, you can now authenticate using the Client Credentials Grant in Box. You'll need to send a POST request to the Box API's token endpoint (https://api.box.com/oauth2/token) to obtain an access token.

#### Sample Request:

Unset

curl -X POST "https://api.box.com/oauth2/token" \ -H "Content-Type: application/x-www-form-urlencoded" \ -d "grant\_type=client\_credentials" \ -d "client\_id=YOUR\_CLIENT\_ID" \ -d "client\_secret=YOUR\_CLIENT\_SECRET" \ -d "box\_subject\_type=enterprise" \ -d "box\_subject\_id=YOUR\_ENTERPRISE\_ID"

Share Client ID, Client Secret and Enterprise ID with Leena AI for enabling Box Integrations.