Configure OpenID Providers

To integrate zkLogin with your app, you need an OAuth client from at least one of the available providers . You use the Client ID and redirect URI from those providers in your zkLogin project. For example, the following TypeScript code constructs a Google login URL for testing.

The following table lists the OpenID providers that can support zkLogin or are currently being reviewed to determine whether they can support zkLogin.

Select a tab for instruction on configuring the client ID ($CLIENT_ID in the previous example) and redirect URI ($REDIRECT_URI in the previous example) with the relevant provider.

Navigate a browser to the Google Cloud dashboard . Either sign in or register for a Google Cloud account.

Open APIs & Services > Credentials using the Google Cloud dashboard navigation.

On the Credentials page, select CREATE CREDENTIALS > OAuth client ID .

Set the Application type and Name of your application.

In the Authorized redirect URIs section, click the ADD URI button. Set the value for your redirect URI in the field. This should be the wallet or application frontend.

Click Create . If successful, Google Cloud displays the OAuth client created dialog with metadata, including your Client ID . Click OK to dismiss the dialog.

Your new OAuth client should now appear in the OAuth 2.0 Client IDs section of the Credentials page. Click the Client ID that appears next to the client to copy the value to your clipboard. Click the client name to access the redirect URI and other client data.

Register for a Facebook developer account and access the dashboard .

Select "Build your app" then "Products" then "Facebook Login" where you can find the client ID. Set the redirect URL. This should be the wallet or application frontend.

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Register for a Twitch developer account. Access the dashboard .

Go to "Register Your Application" then "Application" where you can find the client ID. Set the redirect URL. This should be the wallet or application frontend.

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Add applications to Kakao

Find client ID

Set redirect URL

Register for a Slack developer account. Access the dashboard and go to "Create New App" then choose "From scratch".

Create app in Slack

Find the Client ID and Client Secret under "App Credentials".

Find Client ID and Client Secret

Set Redirect URL in "OAuth & Permissions" under "Features". This should be the wallet or application frontend.

Set Redirect URL

Register for an [Apple developer account](#) . Go to the Certificates, Identifiers and Profiles section.

This is where you can create Certificates, Identifiers and Profiles

Create an App ID

This is how you can enable Sign In with Apple for your App ID

Create a Services ID

A Services ID identifies a specific instance of your app and is used as the OAuth client_id . You need a Services ID if you want to use Sign In with Apple for your web app.

This is where you Create a Services ID

Create a new identifier and select Services IDs as the identifier type.

Select the App ID that you created in the previous step as the Primary App ID. This will associate your Services ID with your App ID.

Enter the domain name of your app (for example, example-app.com) and the redirect URL that will receive the authorization code from Apple (for example, https://example-app.com/redirect). Note that Apple does not allow localhost or IP addresses as valid domains or redirect URLs.

Click Save and then Continue and Register until you complete this step.

You have now created an App ID and a Services ID for your app. The identifier of your Services ID is your OAuth client_id . In my example, that is com.example.client.

This is where you Set Redirect URL

Register and sign in to the [Microsoft Entra admin center](#) .

Select Applications > App registrations from the left nav.

Click the New Registration button in the top left to open the Register an application page.

Type the application name in the Name field, select the appropriate Supported account types option, and set the Redirect URI value. When satisfied, click Register .

After clicking the Register button, the admin center opens the application view. Select Authentication from the left nav of the application view.

In the Implicit grant and hybrid flows section, check the ID tokens (used for implicit and hybrid flows) box.

Click Save .

Client ID is available in the Essentials section of the application's Overview tab.

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Related links