Common Provider

@web3auth/base-provider

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For connecting to blockchains other than EVM, Solana, and XRPL, you need to use the private key from Web3Auth and manually make RPC calls to the blockchain. This flow is facilitated by@web3auth/base-provider package.

In this section, we'll explore more about how you can use this provider with our SDKs.

Installationâ

@web3auth/base-provider

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- npm
- Yarn
- pnpm

npm install --save @web3auth/base-provider yarn add @web3auth/base-provider pnpm add @web3auth/base-provider

Initialisationâ

Import theCommonPrivateKeyProvider class from@web3auth/base-provider .

import

{

CommonPrivateKeyProvider

}

from

"@web3auth/base-provider" ;

Assign theCommonPrivateKeyProvider

class to a variableâ

After creating your Web3Auth instance, you need to initialize the CommonPrivateKeyProvider and add it to a class for further usage.

const privateKeyProvider =

new

CommonPrivateKeyProvider ( ) ; Note * The common private key provider only exposes one RPC method (i.e. 'private_key') to get the private key of the logged-in user.

Setting up the providerâ

For Web3Auth PnP Web SDKsâ

If you are usingchainNamespace: "other" while initializingWeb3Auth orWeb3AuthNoModal with theOpenloginAdapter , you need to add theprivateKeyProvider to the OpenLogin instance.

const chainConfig =

{ chainId :

"0x1" , chainNamespace :

CHAIN_NAMESPACES . OTHER , rpcTarget :

"https://any-rpc-endpoint.com" , } ;

const web3auth =

new

Web3AuthNoModal ({ clientId , chainConfig , web3AuthNetwork :

"sapphire_mainnet" , }) ;

const privateKeyProvider =

new

CommonPrivateKeyProvider (config : chainConfig) ;

const openloginAdapter =

new

OpenloginAdapter ({ privateKeyProvider , adapterSettings :

{ ... } , mfaSettings :

{ ... } , loginSettings :

{ ... } , }) ; web3auth . configureAdapter (openloginAdapter) ;

const web3authProvider =

await web3auth . connectTo (WALLET_ADAPTERS . OPENLOGIN , { loginProvider :

"google" , }) ;

// Use this provider to export the private key of the user

For Single Factor Auth Web SDKâ

While using the SFA Web SDK, you need to pass the provider during the initialization of SDK, while calling the init() function.

const chainConfig =

{ chainId :

"0x1" , chainNamespace :

CHAIN_NAMESPACES . OTHER , rpcTarget :

"https://any-rpc-endpoint.com" , } ;

const web3authSfa =

new

Web3Auth ({ clientId ,

// Get your Client ID from the Web3Auth Dashboard chainConfig , web3AuthNetwork :

"sapphire_mainnet" , usePnPKey :

false ,

// Setting this to true returns the same key as PnP Web SDK, By default, this SDK returns CoreKitKey. }) ;

const privateKeyProvider =

new

CommonPrivateKeyProvider (config : chainConfig) ;

web3authSfa . init (privateKeyProvider) ;

const web3authSfaprovider =

await web3auth . connect ({ verifier :

"web3auth-sfa-verifier" ,

// e.g. web3auth-sfa-verifier replace with your verifier name, and it has to be on the same network passed in init(). verifierId :

"name@email.com" ,

// e.g. Yux1873xnibdui or name@email.com replace with your verifier id(sub or email)'s value. idToken :

"eyJhbGciOiJFUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6IlRZT2dnXy01RU9FYmxhWS1WVlJZcVZhREFncHRuZktWNDUzNU1aUEMwdzAifQ.eyJpYXQiOjE2ODY4OTMzMzYsImF1ZCI6IkJlcl9kS2N4QzBlY0t
X-osNlP4pda7aASKko0dm7EsmQvA-uq7cKFJWgAD8S9jC8ZogiEtJ6MRnjDYY8UdTwBL7mQ" ,

// replace with your newly created unused JWT Token. }) ;

// use this provider to export the private key of the user

Usageâ

On connection, you can use thisprovider as a private key provider to expose the user's private key in the frontend context

//Assuming the user is already logged in. async

getPrivateKey ( )

{ const privateKey =

await web3authSfaprovider . request ({ method :

"private_key" }) ; //Do something with privateKey }Edit this page Previous XRPL Provider