Common Provider

@web3auth/base-provider

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

â

- npmYarn

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
```

Assign the Common Private Key Provider

class to a variableå

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

const privateKeyProvider =

"@web3auth/base-provider";

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 SDKså

```
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 =

 $Common Private Key Provider \ (\ config : chain Config \) \ ;$

const openloginAdapter =

{ ... } , mfaSettings :

OpenloginAdapter ({ privateKeyProvider , adapterSettings :

```
{ ... } , 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 SDKå

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 ,
/\!/\, \text{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 =
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:
{\it //~e.g.~Yux1873} xnibdui~or~name@email.com~replace~with~your~verifier~id(sub~or~email)'s~value.~idToken~:}\\
"eyJhbGciOiJFUzI1NiisInR5cCl6lkpXVClsImtpZCl6llRZT2dnXy01RU9FYmxhWS1WVIJZcVZhREFncHRuZktWNDUzNU1aUEMwdzAifQ.eyJpYXQiOjE2ODY4OTMzMzYsImF1ZCl6lkJlcl9kS2N4QzBlY0tX-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 Next SafeAuth