

```
D4D4D4;--ch-t-background: #1E1E1E;--ch-t-lighter-
inlineBackground: #1e1e1ee6;--ch-t-editor-background:
#1E1E1E;--ch-t-editor-foreground: #D4D4D4;--ch-t-editor-
rangeHighlightBackground: #ffffff0b;--ch-t-editor-
infoForeground: #3794FF;--ch-t-editor-
selectionBackground: #264F78;--ch-t-focusBorder:
#007FD4;--ch-t-tab-activeBackground: #1E1E1E;--ch-t-
tab-activeForeground: #ffffff;--ch-t-tab-
inactiveBackground: #2D2D2D;--ch-t-tab-
inactiveForeground: #ffffff80;--ch-t-tab-border: #252526;--
ch-t-tab-activeBorder: #1E1E1E;--ch-t-editorGroup-
border: #444444;--ch-t-editorGroupHeader-
tabsBackground: #252526;--ch-t-editorLineNumber-
foreground: #858585;--ch-t-input-background: #3C3C3C;-
-ch-t-input-foreground: #D4D4D4;--ch-t-icon-foreground:
#C5C5C5;--ch-t-sideBar-background: #252526;--ch-t-
sideBar-foreground: #D4D4D4;--ch-t-sideBar-border:
#252526;--ch-t-list-activeSelectionBackground: #094771;--
ch-t-list-activeSelectionForeground: #ffffffe;--ch-t-list-
hoverBackground: #2A2D2E; }
```

Dynamic Signer

In this guide, you will learn how to create a [Dynamic\(opens in a new tab\)](#) signer that can be added as a Safe owner and used to initialize any of the kits from the Safe{Core} SDK.

Check out the [Safe Signers demo app\(opens in a new tab\)](#) on GitHub to follow along this guide with the completed code.

Note that this guide will focus on supporting Ethereum and EVM-compatible wallets. You can enable, import and add [more connectors\(opens in a new tab\)](#) as needed.

Prerequisites

- A [Dynamic account\(opens in a new tab\)](#)
- and an environment ID.

Install dependencies

```
npm yarn pnpm _10 npm install @dynamic-labs/sdk-react-core @dynamic-labs/ethereum
```

Steps

Imports

Here are the necessary imports for this guide.

```
_10 import { _10 DynamicContextProvider, _10 useDynamicContext, _10 useIsLoggedIn _10 } from '@dynamic-labs/sdk-react-core' _10 import { _10 EthereumWalletConnectors, _10 isEthereumWallet _10 } from '@dynamic-labs/ethereum'
```

Get the Environment ID

Once you create a new Dynamic project in [the dashboard\(opens in a new tab\)](#), you will find your environment ID in [the SDK & API Keys page\(opens in a new tab\)](#).

Once you have it, you need to initialize the `DYNAMIC_ENVIRONMENT_ID` variable with it.

```
_10 const DYNAMIC_ENVIRONMENT_ID = // ...
```

Initialize Dynamic

Dynamic works with React hooks. This means you can wrap your app with the `DynamicContextProvider` and have access to several react hooks like `useDynamicContext()` that will provide all the functionality.

`DynamicContextProvider` receives an `environmentId` and other configuration options. Check [Dynamic React SDK documentation\(opens in a new tab\)](#) to learn more about all the different configuration options.

```
_10 <DynamicContextProvider _10 settings={{ _10 environmentId: DYNAMIC_ENVIRONMENT_ID, _10 walletConnectors: [EthereumWalletConnectors], _10 // Add other configuration options as needed _10 }} _10
```

`_10` `_10` In this guide you will use the `primaryWallet` from the `useDynamicContext()` hook, and the `useIsLoggedIn()` hook.

```
_10 const { primaryWallet } = useDynamicContext() _10 const isLoggedIn = useIsLoggedIn()
```

Login

In the `App` component, add [the DynamicWidget component\(opens in a new tab\)](#) that will handle all the login and authentication logic for you.

```
_10 import { DynamicWidget } from '@dynamic-labs/sdk-react-core' _10 _10 const App = () => { _10 return ( _10 <> _10 // Your other content here _10 _10 _10 ) _10 }
```

Get the provider and signer

Once the user is logged in through the `DynamicWidget`, you can get the `provider` and `signer`, which is the externally-owned account of the user that was derived from its credentials.

To do that there is `useEffect()` that executes when any of the `isLoggedIn` and `primaryWallet` variables have their values updated. Once they are all `true`, you have access to the user's connected signer. Note that you should also check that the wallet is an Ethereum wallet using the `isEthereumWallet()` function.

You can instantiate the provider and signer like so:

```
_10 useEffect(() => { _10 const init = async () => { _10 if (isLoggedIn && primaryWallet && isEthereumWallet(primaryWallet)) { _10 const provider = await primaryWallet.getWalletClient() _10 _10 const signer = primaryWallet.address _10 } _10 } _10 init() _10 }, [isLoggedIn, primaryWallet]) With the provider and signer you are ready to instantiate any of the kits from the Safe{Core} SDK and set up or use this signer as a Safe owner.
```

Recap and further reading

After following this guide, you are able to create a Safe signer using Dynamic and get the `provider` and `signer` required to initialize the kits from the Safe{Core} SDK.

Learn more about Dynamic by checking the following resources:

- [Dynamic website\(opens in a new tab\)](#)
- [Dynamic documentation\(opens in a new tab\)](#)
- [Dynamic quickstart guide\(opens in a new tab\)](#)
- [Dynamic in a Safe App\(opens in a new tab\)](#)

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