# Create Smart Accounts with WAGMI React Hooks

This section shows how to use Wagmi React Hooks to create a Smart Account with Biconomy. If you would like to simply see a code implementation, one is available which showcases how to create a smart account using Wagmi.

### **Dependencies**

You will need the following dependencies to create a Smart Account this way:

yarn add wagmi viem @alchemy/aa-core @biconomy/account

## **Set up Wagmi Config**

First we'll need to set up the Wagmi config file to wrap the full app. The context below assumes a Next JS application but can be used in any React framework.

#### **Imports**

}),

```
import
{ WagmiConfig, createConfig, configureChains }
from
"wagmi"; import
{ baseGoerli }
from
"@wagmi/core/chains"; import
{ alchemyProvider }
from
"wagmi/providers/alchemy"; import
{ publicProvider }
from
"wagmi/providers/public"; import
{ MetaMaskConnector }
from
"wagmi/connectors/metaMask"; import
{ createPublicClient , http }
from
"viem";
Config Setup
const
{ chains , webSocketPublicClient }
configureChains ([baseGoerli], [alchemyProvider({apiKey:
```

```
publicProvider()]);
const config =
createConfig ( { autoConnect :
false, publicClient:
createPublicClient ( { chain : baseGoerli , transport :
http(),}), connectors:
[ new
MetaMaskConnector ( { chains } ) ] , webSocketPublicClient , } ) ;
export
default
function
App ( { Component , pageProps } : AppProps )
{ return
( <
     < WagmiConfig config = { config }
     < Component { ... pageProps }
     </WagmiConfig
     </
     ); With the config completed we can now access the Wagmi hooks in our other components.
Hooks Imports
import
{ useConnect , useAccount , useDisconnect , useWalletClient }
from
"wagmi"; import
\{\ create Smart Account Client\ ,\ create ECDS AOwnership Validation Module\ ,\ IPaymaster\ ,\ create Paymaster\ ,\ IBundler\ ,
createBundler, }
from
"@biconomy/account"; import
{ useState }
from
```

## **Create Bundler and Paymaster Instance**

To set up the smart account lets instances of our bundler and Paymaster set up. These opitonal values in creating the smart account will be helpful in accessing the full stack of Account Abstraction made available by the Biconomy SDK.

### Connect to Users EOA and Create Smart account

"react";

```
{ connect, connectors, error, isLoading, pendingConnector}
= useConnect (); const
{ address , isConnected }
useAccount (); const
{ disconnect }
useDisconnect (); const
{ data : walletClient }
useWalletClient (); const
[ smartAccountAddress , setSmartAccountAddress ]
useState();
const
createSmartAccount
async
()
=>
{ if
(!walletClient)
return;
const biconomySmartAccount =
await
createSmartAccountClient ( { signer : walletClient , bundlerUrl :
// <-- Read about this at https://docs.biconomy.io/dashboard#bundler-url biconomyPaymasterApiKey:
// <-- Read about at https://docs.biconomy.io/dashboard/paymaster } ); console . log ( { biconomySmartAccount } ); const
saAddress =
await biconomySmartAccount . getAccountAddress (); setSmartAccountAddress (saAddress); }; See a basic
implementation in the UI below:
return
( <
     < Head
     < title
     Biconomy x WAGMI < / title
```

```
< meta name = "description" content = "WAGMI Hooks With Biconomy"
      < meta name = "viewport" content = "width=device-width, initial-scale=1"
      < link rel = "icon" href = "/favicon.ico"
/
      </ Head
      < main className = { styles . main }
      < h1
     Biconomy x WAGMI Example < / h1
     { address &&
< h2
     EOA:
{ address } < / h2
     } { smartAccountAddress &&
< h2
      Smart Account:
{ smartAccountAddress } < / h2
     } { connectors . map ( ( connector )
=>
( < button key = \{ connector . id \} onClick = \{ ( ) \}
=>
connect ( { connector } ) }
     { connector . name } { isLoading && connector . id === pendingConnector ?. id && " (connecting)" } < / button
     ))}
{ error &&
< div
     { error . message } < / div
     } { isConnected &&
< button onClick = { disconnect }
     Disconnect < / button
     } { isConnected &&
( < button onClick = { createSmartAccount }</pre>
      Create Smart Account < / button
     ) } < / main
      </
     ); You are now ready to get started using WAGMI with Biconomy. For a full code implementation check outlis
```

example repo . Previous Viem Next Dynamic