Initialize Smart Account

In this step we'll set up our node js script to create or display a smart account in our command prompt.

info This tutorial has a setup step in the previous sectionEnvironment Setup

Initialization

import

{ createSmartAccountClient , }

from

"@biconomy/account" ; import

{ Wallet , providers , ethers }

from

"ethers" ; const provider =

new

providers . JsonRpcProvider ("https://rpc.ankr.com/polygon_mumbai" ,) ; const wallet =

new

Wallet (process . env . PRIVATE_KEY

||

"" , provider) ; * We create a provider using a public RPC provider endpoint from ankr, feel free to use any service here such as Infura or Alchemy if you wish. We encourage you to use a private RPC endpoint for better efficiency in userOp creation. * Next we create an instance of the wallet associated to our Private key.

Now lets sup our paymaster. Update your imports to contain the following values:

import

{ IPaymaster , BiconomyPaymaster , IHybridPaymaster , PaymasterMode , SponsorUserOperationDto , createSmartAccountClient , }

from

"@biconomy/account" ; We'll need these to help us execute our gasless transaction. The first thing we want to do is get a paymaster api key.

const paymasterApiKey =

"apiKey" ; Now lets generate a new instance of our smart account. Additional information about this method can be foundhere .

async

function

createAccount ( )

{ let biconomySmartAccount =

await

createSmartAccountClient ({ signer : wallet , bundlerUrl , biconomyPaymasterApiKey : paymasterApiKey , }) ; console . log ("address: " ,

await biconomySmartAccount . getAccountAddress ( )) ; return biconomySmartAccount ; }

createAccount ( ) ; After running this script your command prompt should then display the address of your smart account. In the next section we'll execute our first gasless transaction by minting an NFT. Previous Environment Set up Next Create Custom session