How to Estimate the Gas Limits for a User Operation

Tip We recommend using <u>permissionless.js</u> to estimate user operations gas limits as it provides type-safe wrappers for all bundler methods.

To estimate the gas limits for a user operation, you need to use you<u>Pimlico API key</u> and make a JSON-RPC request as follows:

viem ethers v5 ethers v6 ```

viem import{ createPublicClient, http }from"viem"

constpimlicoApiKey="YOUR_PIMLICO_API_KEY_HERE" constchain="sepolia"// find the list of supported chains at https://docs.pimlico.io/bundler constpimlicoEndpoint=https://api.pimlico.io/v1{chain}/rpc?apikey={pimlicoApiKey}

constuserOperation=... constentryPoint="0x5FF137D4b0FDCD49DcA30c7CF57E578a026d2789"

constpimlicoClient=createPublicClient({ transport:http(pimlicoEndpoint) }) constestimationResult=awaitpimlicoClient.request({ // @ts-ignore method:"eth_estimateUserOperationGas", params: [userOperation, entryPoint] })

 $const pre Verification Gas = estimation Result. pre Verification Gas \\const verification Gas Limit = estimation Result. verification Gas \\Limit = estimation Result. call Gas \\Limit = estimation$