

# Bundler Client

A Bundler Client is an interface to official ERC-4337 JSON-RPC API methods that include sending user operations, estimation user operation gas limits, getting user operation receipts and more.

To create a Bundler Client, create a basic client and extend it with the Bundler Actions.

## Import

```
...  
  
import{ bundlerActions }from'permissionless'  
...
```

## Usage

Initialize a Bundler Client with your desired Chain (e.g. mainnet) and Transport (e.g. http) from viem by creating a simple client and extending it with the standard bundler methods.

```
...  
  
import{ createClient, http }from'viem' import{ sepolia }from'viem/chains' import{ bundlerActions,  
ENTRYPOINT_ADDRESS_V07 }from'permissionless'  
  
constbundlerClient=createClient({ chain: sepolia, transport:http("https://api.pimlico.io/v1/sepolia/rpc?  
apikey=YOUR_API_KEY_HERE") }).extend(bundlerActions(ENTRYPOINT_ADDRESS_V07))  
...
```

Then you can consume Bundler Actions:

```
...  
  
constsupportedEntryPoints=awaitbundlerClient.supportedEntryPoints()  
...
```

Alternatively, you can initialize a Bundler Client with thecreateBundlerClient method:

```
...  
  
import{ http }from'viem' import{ sepolia }from'viem/chains' import{ createBundlerClient, ENTRYPOINT_ADDRESS_V07  
}from'permissionless'  
  
constbundlerClient=createBundlerClient({ chain: sepolia, transport:http("https://api.pimlico.io/v1/sepolia/rpc?  
apikey=YOUR_API_KEY_HERE"), entryPoint:ENTRYPOINT_ADDRESS_V07 })  
...
```