

# Pimlico Paymaster Client

The Pimlico paymaster actions in `permissionless.js` only work with the v2 Pimlico API. The v1 API for paymasters is deprecated and will be removed in the future.

This version, instead of simply signing over the passed-in User Operation, estimates the gas values for the User Operation and then signs over the estimated gas values, returning not only the `paymasterAndData` but also the `preVerificationGas`, `verificationGasLimit`, and `callGasLimit`.

A Pimlico Paymaster Client is an interface to the [Pimlico-specific paymaster methods](#).

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

## Import

```
import{ pimlicoPaymasterActions }from'permissionless/actions/pimlico'
```

...

## 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 Pimlico paymaster methods.

...

```
import{createClient,http}from'viem' import{sepolia}from'viem/chains' import{bundlerActions,ENTRYPOINT_ADDRESS_V07}from'permissionless'
import{pimlicoPaymasterActions}from'permissionless/actions/pimlico'
```

```
const bundlerClient = createClient({ chain: sepolia, transport: http("https://api.pimlico.io/v2/sepolia/rpc?apikey=YOUR_API_KEY_HERE"), })
    .extend(pimlicoPaymasterActions(ENTRYPOINT_ADDRESS_V07))
```

...

Then you can consume Pimlico Paymaster Actions:

[illegible]

...

Alternatively, you can initialize a Paymaster Client with the `createPimlicoPaymasterClient` method:

...

```
import{ http }from'viem' import{ sepolia }from'viem/chains' import{ ENTRYPOINT ADDRESS V07 }from'permissionless' import{ createPimlicoPaymasterClient }from"permissionless/clients/pimlico":
```

```
const pimlicoPaymasterClient = createPimlicoPaymasterClient({ chain: sepolia, transport: http("https://api.pimlico.io/v2/sepolia/rpc?apikey=YOUR_API_KEY_HERE"),
  entryPoint: ENTRYPOINT_ADDRESS_V07 })
```

...