Golang SDK

suave-geth provides an SDK with a set of tools to interact with SUAVE, including deploying contracts, sending transactions, and waiting for transaction receipts.

Installation

Make sure you have Go installed on your system and your workspace is set. Then import the SDK package into your Go project:

import

"github.com/ethereum/go-ethereum/suave/sdk" Then, introduce areplace statement in yourgo.mod file to point to the SUAVE Geth fork:

replace github . com / ethereum / go - ethereum =

github.com / flashbots / suave - geth This is a temporary setup, and the SDK will later be spawned into its own library.

Usage

Creating a Client

To start interacting with Ethereum smart contracts, instantiate a new client:

client := sdk . NewClient (rpcClient , privateKey , executionNodeAddress) * rpcClient * : Your Ethereum RPC client. * privateKey * : An ECDSA private key for signing transactions. * executionNodeAddress * : The address of a SUAVE Kettle. Use0x03493869959c866713c33669ca118e774a30a0e5 * if working on Rigil.

One way to instantiate a golang RPC client using the go-ethereum rpc module "github.com/ethereum/go-ethereum/rpc" is:

exNodeNetAddr

"http://localhost:8545" rpcClient ,

:= rpc . Dial (exNodeNetAddr)

Deploying a Contract

Deploy a smart contract to the network:

transactionResult, err := sdk. DeployContract (bytecode, client) * bytecode *: The compiled bytecode of the smart contract. * client *: An instance of yourClient *.

Sending a Transaction

Interact with a contract by sending a transaction:

transactionResult, err := contract. SendTransaction (methodName, args, confidentialData) * methodName *: The name of the contract method to call. * args *: Arguments for the method call. * confidentialData *: Confidential data bytes for the transaction.

Transaction Result

After sending a transaction, you can query the result and receipt:

receipt, err := transactionResult. Wait () Wait for the transaction to be mined and get the receipt.

hash := transactionResult . Hash () Retrieve the hash of the transaction.

Client Methods

The following are key methods available on the Client type:

- RPC()

- RPC()
 : Retrieves the underlying RPC client.
 SignTxn(*types.LegacyTx)
 : Signs a transaction with the provided private key.
 SendTransaction(*types.LegacyTx)
 : Sends a signed transaction to the network.Edit this page Previous Forge Next TypeScript SDK