



# Smart Contract Audit

FOR

# Dominator Domain

DATED : 20 MAR 23'



# AUDIT SUMMARY

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**Project name** – Dominator Domain

**Date:** 20 March, 2023

**Scope of Audit-** Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

**Audit Status:** **Passed**

## Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	1	0	2
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0

# USED TOOLS

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## Tools:

### 1- Manual Review:

a line by line code review has been performed by audit ace team.

### 2- BSC Testnet network:

all tests were done on Bsc Testnet network, each test has its transaction has attached to it.

### 3- Slither : Static Analysis

**Testnet Link:** all tests were done using this contract, tests are done on BSC Testnet

<https://testnet.bscscan.com/address/0xBa590cb3400e1d0355bdaA9D435700b57D3AeB1b#code>

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# Token Information

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**Token Name :** Dominator Domain

**Token Symbol:** DomDom

**Decimals:** 18

**Token Supply:** 500,000,000

**Token Address:**

0x635d0e13f98e107Cf6C5cDFbF52C19843F87e76a

**Checksum:**

7539e92eafdc416f8c4d4550dec56f40ed0ef55b

**Owner:**

0x5E12DE4284670cF35eF793A27042A805B36aE848

**Deployer:**

0x8134b687be5752eFF8361B663030420D47648bfF

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# TOKEN OVERVIEW

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## **Fees:**

Buy Fees: 0%

Sell Fees: 3%

Transfer Fees: 0%

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**Fees Privilege:** None

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**Ownership :** Owned

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**Minting:** No mint function

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**Max Tx Amount/ Max Wallet Amount:** No

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**Blacklist:** No

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**Other Privileges:** Including in fee - excluding from fee

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# AUDIT METHODOLOGY

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The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
  - Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
  - Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
  - Test coverage analysis determines whether the test cases are covering the code and how much code is exercised when we run the test cases.
  - Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
  - Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.
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# VULNERABILITY CHECKLIST

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- |                                    |                               |
|------------------------------------|-------------------------------|
| ✓ Return values of low-level calls | ✓ Gasless Send                |
| ✓ Private modifier                 | ✓ Using block.timestamp       |
| ✓ Multiple Sends                   | ✓ Re-entrancy                 |
| ✓ Using Suicide                    | ✓ Tautology or contradiction  |
| ✓ Gas Limitand Loops               | ✓ Timestamp Dependence        |
| ✓ Address hardcoded                | ✓ Revert/require functions    |
| ✓ Exception Disorder               | ✓ Use of tx.origin            |
| ✓ Using inline assembly            | ✓ Integer overflow/underflow  |
| ✓ Divide before multiply           | ✓ Dangerous strict equalities |
| ✓ Missing Zero Address Validation  | ✓ Using SHA3                  |
| ✓ Compiler version not fixed       | ✓ Using throw                 |
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# CLASSIFICATION OF RISK

## Severity

## Description

◆ Critical	These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
◆ High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
◆ Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
◆ Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
◆ Gas Optimization / Suggestion	A vulnerability that has an informational character but is not affecting any of the code.

## Findings

### Severity

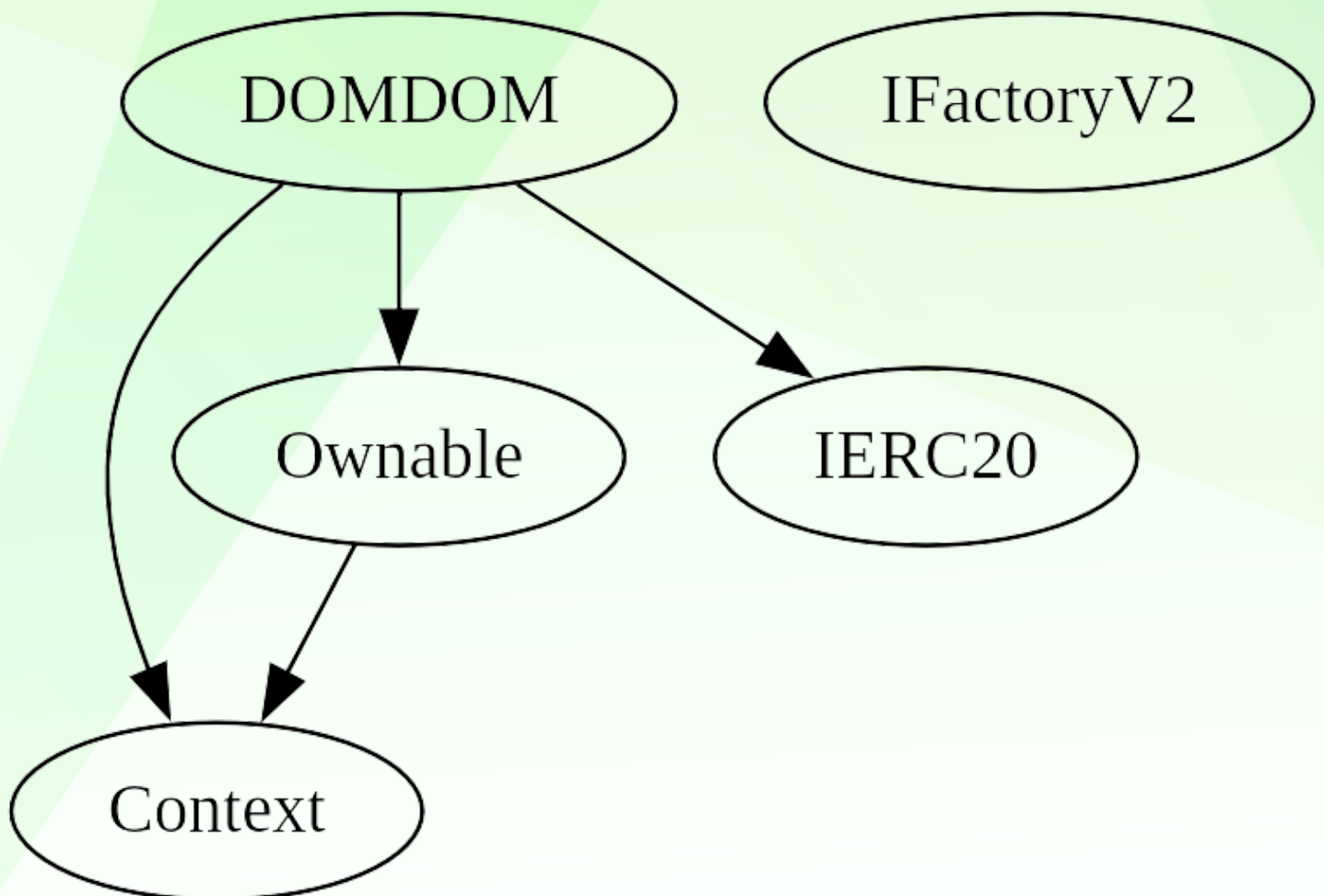
### Found

◆ Critical	0
◆ High-Risk	0
◆ Medium-Risk	1
◆ Low-Risk	0
◆ Gas Optimization / Suggestions	2



# INHERITANCE TREE

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# POINTS TO NOTE

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- **Owner must enable trading for investors**
  - Owner is able to change buy/sell fees up to 3% each one (0% transfer fee)
  - Owner is not able to set max buy/sell/transfer/hold amount
  - Owner is not able to blacklist an arbitrary wallet
  - Owner is not able to disable trades
  - Owner is not able to mint new tokens
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# CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
L	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
**Context**   Implementation					
L	<Constructor>	Public !	●	NO !	
L	_msgSender	Internal 🔒			
L	_msgData	Internal 🔒			
**Ownable**   Implementation   Context					
L	<Constructor>	Public !	●	NO !	
L	owner	Public !		NO !	
L	renounceOwnership	Public !	●	onlyOwner	
L	transferOwnership	Public !	●	onlyOwner	
L	_setOwner	Private 🔒	●		
**IFactoryV2**   Interface					
L	getPair	External !		NO !	
L	createPair	External !	●	NO !	
**IV2Pair**   Interface					
L	factory	External !		NO !	
L	getReserves	External !		NO !	
L	sync	External !	●	NO !	
**IRouter01**   Interface					
L	factory	External !		NO !	
L	WETH	External !		NO !	
L	addLiquidityETH	External !	💰	NO !	
L	addLiquidity	External !	●	NO !	
L	swapExactETHForTokens	External !	💰	NO !	
L	getAmountsOut	External !		NO !	
L	getAmountsIn	External !		NO !	
**IRouter02**   Interface   IRouter01					
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External !	●	NO !	
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External !	💰	NO !	
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !	●	NO !	
L	swapExactTokensForTokens	External !	●	NO !	

# CONTRACT ASSESMENT

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| **\*\*IERC20\*\*** | Interface | |||

| | totalSupply | External ! | | NO ! |

| | decimals | External ! | | NO ! |

| | symbol | External ! | | NO ! |

| | name | External ! | | NO ! |

| | getOwner | External ! | | NO ! |

| | balanceOf | External ! | | NO ! |

| | transfer | External ! | ● | NO ! |

| | allowance | External ! | | NO ! |

| | approve | External ! | ● | NO ! |

| | transferFrom | External ! | ● | NO ! |

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| **\*\*DOMDOM\*\*** | Implementation | Context, Ownable, IERC20 |||

| | totalSupply | External ! | | NO ! |

| | decimals | External ! | | NO ! |

| | symbol | External ! | | NO ! |

| | name | External ! | | NO ! |

| | getOwner | External ! | | NO ! |

| | allowance | External ! | | NO ! |

| | balanceOf | Public ! | | NO ! |

| | <Constructor> | Public ! | ● | NO ! |

| | <Receive Ether> | External ! | 🟢 | NO ! |

| | transfer | Public ! | ● | NO ! |

| | approve | External ! | ● | NO ! |

| | \_approve | Internal 🔒 | ● | |

| | transferFrom | External ! | ● | NO ! |

| | isNoFeeWallet | External ! | | NO ! |

| | setNoFeeWallet | Public ! | ● | onlyOwner |

| | isLimitedAddress | Internal 🔒 | | |

| | is\_buy | Internal 🔒 | | |

| | is\_sell | Internal 🔒 | | |

| | is\_transfer | Internal 🔒 | | |

| | canSwap | Internal 🔒 | | |

| | changeLpPair | External ! | ● | onlyOwner |

| | \_transfer | Internal 🔒 | ● | |

| | \_basicTransfer | Internal 🔒 | ● | |

| | changeWallets | External ! | 🟢 | onlyOwner |

| | takeTaxes | Internal 🔒 | ● | |

| | internalSwap | Internal 🔒 | ● | inSwapFlag |

| | updateBuyFeeAmount | External ! | ● | onlyOwner |



# CONTRACT ASSESMENT

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<sup>L</sup>	updateSellFeeAmount	External !	●	onlyOwner
<sup>L</sup>	setPresaleAddress	External !	●	onlyOwner
<sup>L</sup>	enableTrading	External !	●	onlyOwner
<sup>L</sup>	rescueETH	External !	●	onlyOwner
<sup>L</sup>	rescueERC20	External !	●	onlyOwner

## Legend

Symbol	Meaning
●	Function can modify state
💰	Function is payable

# TOKEN DISTRIBUTION

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**It should be noted that the owner currently holds 100% of the total supply. However, information about the distribution of these tokens is not available, and it is recommended that investors exercise caution when considering this aspect.**

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# STATIC ANALYSIS

```
Context. msgData() (contracts/Token.sol#15-18) is never used and should be removed
DOMDOM.is_transfer(address,address) (contracts/Token.sol#390-396) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Pragma version^0.8.17 (contracts/Token.sol#5) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
solc-0.8.19 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Low level call in DOMDOM.internalSwap(uint256) (contracts/Token.sol#489-535):
- (success,None) = marketingAddress.call(gas: 35000,value: marketingETH)() (contracts/Token.sol#526-529)
- (success,None) = rewardsAddress.call(gas: 35000,value: rewardsETH)() (contracts/Token.sol#532-534)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

Function IRouter01.WETH() (contracts/Token.sol#95) is not in mixedCase
Function DOMDOM.is_buy(address,address) (contracts/Token.sol#380-383) is not in mixedCase
Function DOMDOM.is_sell(address,address) (contracts/Token.sol#385-388) is not in mixedCase
Function DOMDOM.is_transfer(address,address) (contracts/Token.sol#390-396) is not in mixedCase
Parameter DOMDOM.updateBuyFeeAmount(uint256,uint256)._marketingFee (contracts/Token.sol#538) is not in mixedCase
Parameter DOMDOM.updateBuyFeeAmount(uint256,uint256)._rewardsFee (contracts/Token.sol#539) is not in mixedCase
Parameter DOMDOM.updateSellFeeAmount(uint256,uint256)._marketingFee (contracts/Token.sol#550) is not in mixedCase
Parameter DOMDOM.updateSellFeeAmount(uint256,uint256)._rewardsFee (contracts/Token.sol#551) is not in mixedCase
Constant DOMDOM.totalSupply (contracts/Token.sol#258) is not in UPPER_CASE_WITH_UNDERSCORES
Constant DOMDOM.transferfee (contracts/Token.sol#259) is not in UPPER_CASE_WITH_UNDERSCORES
Constant DOMDOM.fee.denominator (contracts/Token.sol#260) is not in UPPER_CASE_WITH_UNDERSCORES
Constant DOMDOM.name (contracts/Token.sol#278) is not in UPPER_CASE_WITH_UNDERSCORES
Constant DOMDOM.symbol (contracts/Token.sol#279) is not in UPPER_CASE_WITH_UNDERSCORES
Constant DOMDOM.decimals (contracts/Token.sol#280) is not in UPPER_CASE_WITH_UNDERSCORES
Variable DOMDOM.LiquidityAdded (contracts/Token.sol#284) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

Redundant expression "this (contracts/Token.sol#16)" inContext (contracts/Token.sol#8-19)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements

Variable IRouter01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (contracts/Token.sol#112) is too similar to IRouter01.addLiquidity(address,address,
uint256,uint256,uint256,uint256,address,uint256).amountBDesired (contracts/Token.sol#113)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

DOMDOM.enableTrading() (contracts/Token.sol#568-572) uses literals with too many digits:
- swapThreshold = (balanceOf(lpPair)) / 100000 (contracts/Token.sol#570)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits

DOMDOM.LiquidityAdded (contracts/Token.sol#284) should be constant
DOMDOM.canSwapFees (contracts/Token.sol#273) should be constant
DOMDOM.maxBuyFee (contracts/Token.sol#263) should be constant
DOMDOM.maxSellFee (contracts/Token.sol#262) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

DOMDOM.swapRouter (contracts/Token.sol#277) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

**Result => A static analysis of contract's source code has been performed using slither,**

**No issues found**



# FUNCTIONAL TESTING

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## Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

All the functionalities have been tested, no issues were found

### 1- Adding Liquidity (**Passed**):

<https://testnet.bscscan.com/tx/0x968621d7b36003d16a04e5bffa0cfb077a8da7069db9510c0383dd6706323e5>

### 2- Buying when excluded from fees (0% tax)(**Passed**):

<https://testnet.bscscan.com/tx/0xe9051e37b311d522ffaa046ae5eef19a0faf20cbb300f2b2b19c7b51a9e1f6d7>

### 3- Selling when excluded from fees (0% tax)(**Passed**):

<https://testnet.bscscan.com/tx/0x36940f8678133e2c76512a10aa735ddc2ae926ca289fa9be3b8c15087e0fdf86>

### 4- Transferring when excluded from fees (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x4a8191ff5b6932e079f1eecbc60e3943de2b7d84442d53964e4b0e614ef71782>

### 5- Buying when not excluded from fees (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xc13deb2256c88f6328dea4aa290a69848faa81db2c3252216d624073bddda27e>

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# FUNCTIONAL TESTING

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## 6- Selling when not excluded from fees (3% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xe2c9dd3aa1a12c79a7fee9691ba401d9f152ac95ac894396474241402f33cefe>

## 7- Transferring when not excluded from fees (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xd2a891522f6f647de1cca5c61b73cc392203b5c692a59011fbbbc527f7b628aa>

## 8- Internal swap (**passed**):

As can seen in this transaction, all the 3 fee wallets received BNB

<https://testnet.bscscan.com/tx/0xe2c9dd3aa1a12c79a7fee9691ba401d9f152ac95ac894396474241402f33cefe>

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# MANUAL TESTING

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## Centralization - Owner must enable trading

**Severity:** Medium

**Function:** enableTrading

**Lines:** 299-301

**Status:** not resolved

**Overview:**

The owner must activate trading for investors to buy, sell, or transfer tokens. If trading remains disabled, token holders will be unable to trade their tokens.

```
uint256 newBalance = address(this).balance - initialBalance;

uint256 marketingShare = (newBalance * marketingWalletShares) / 100;

if (marketingShare > 0) {
    sendBNB(marketingWallet, marketingShare);
}
```

**Recommendation:**

Incorporate a safety mechanism that allows investors to activate trading if a specified duration has elapsed since the conclusion of the presale.

# MANUAL TESTING

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## Informative - Internal swap threshold

**Severity:** Informative

**Function:** --

**Lines:** --

**Status:** not resolved

**Overview:**

Current implementation of the contract doesn't allow owner to change swap threshold, depending on market condition, liquidity pool size owner might need to change swap threshold accordingly.

**Recommendation:**

Create a function to be able to update swap threshold in a reasonable range

# MANUAL TESTING

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## Informative - Rescuing native tokens

Severity: **Informative**

Function: rescueERC20

Lines: 423-426

Status: not resolved

### Overview:

Currently rescueERC20 function doesn't allow owner to withdraw native tokens. Adding this feature is suggested because removing tokens from contract doesn't hurt trades or investors.

```
function rescueERC20(address tokenAddr, uint256 amount) external onlyOwner {  
    require(  
        tokenAddr != address(this),  
        "Owner can't claim contract's balance of its own tokens"  
    );  
    IERC20(tokenAddr).transfer(owner(), amount);  
}
```

### Recommendation:

Allow native token withdrawals



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We specializes in providing thorough and reliable audits for Web3 projects. With a team of experienced professionals, we use cutting-edge technology and rigorous methodologies to evaluate the security and integrity of blockchain systems. We are committed to helping our clients ensure the safety and transparency of their digital assets and transactions.



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