



Smart Contract Audit

FOR
Shibarbie Token

DATED : 5 September 23'



AUDIT SUMMARY

Project name – Shibarbie Token

Date: 5 September 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	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0

USED TOOLS

Tools:

1- Manual Review:

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

2- BSC Test Network: All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

3- Slither :

The code has undergone static analysis using Slither.

Testnet version:

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:

<https://testnet.bscscan.com/token/0x160653256CeB9eC29Db166bEB42D1C8EBcd53dEE>



Token Information

Token Address :

0x9150Fe4779Ccf939600D9D8A863E083Df1ae702C

Name: Shibarbie Token

Symbol: SHIBARBIE

Decimals: 18

Network: BSC

Token Type: BEP20

Owner: 0xf7779ED8B572d7da3f8c19C2dE3dD55c60b9561e

Deployer: 0xf7779ED8B572d7da3f8c19C2dE3dD55c60b9561e

Token Supply: 10,000,000,000

Checksum:

ef746d7987bb0b51f304e4c91d7228624f8f5f8c

Testnet version:

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:
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TOKEN OVERVIEW

buy fee: 0-10%

Sell fee: 0-10%

transfer fee: 0-10%

Fee Privilege: Owner

Ownership: Owned

Minting: None

Max Tx: 0.2% - 100% of total supply

Blacklist: No

Other Privileges:

- Initial distribution of the tokens
 - Modyfing fees
-



AUDIT METHODOLOGY

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.
-



VULNERABILITY CHECKLIST

- | | |
|------------------------------------|-------------------------------|
| ✓ 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 |
-



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

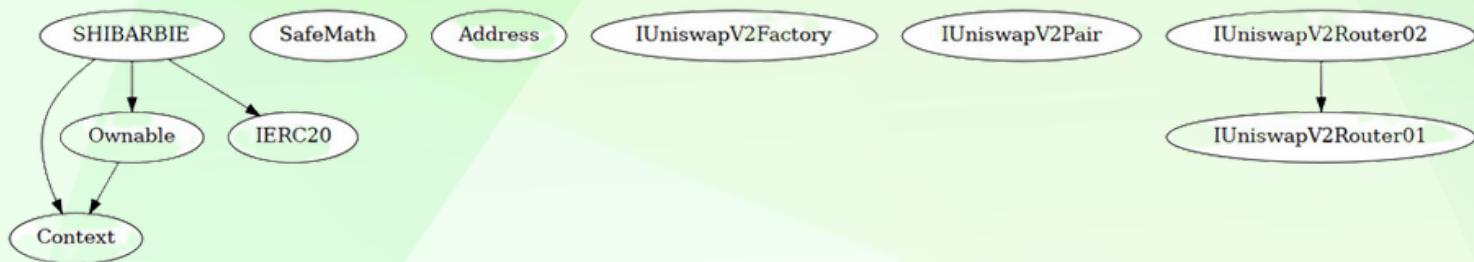
Severity

Found

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



INHERITANCE TREE



POINTS TO NOTE

- **Owner is able to change buy/sell/transfer fees within 0-10%**
 - Owner is not able to blacklist an arbitrary wallet
 - Owner is not able to mint new tokens
 - Owner is able to set maximum buy/sell/transfer amounts (0.2% - 100% of total supply)
-



STATIC ANALYSIS

```
Variable SHIBARBIE.takeMarketing(address,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#1441) is too similar to SHIBARBIE._getTValues(uint256).tTransferAmount (contracts/Token.sol#1174)
Variable SHIBARBIE.takeBurn(address,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#1423) is too similar to SHIBARBIE.takeBurn(address,uint256,uint256,uint256).tTransferAmount (contracts/Token.sol#1422)
Variable SHIBARBIE._getRValues(uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#1187) is too similar to SHIBARBIE._transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1486)
Variable SHIBARBIE._getValues(uint256).rTransferAmount (contracts/Token.sol#1153) is too similar to SHIBARBIE._transferStandard(address,address,uint256).tTransferAmount (contracts/Token.sol#1397)
Variable SHIBARBIE.takeMarketing(address,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#1441) is too similar to SHIBARBIE._transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1422)
Variable SHIBARBIE._transferFromExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1484) is too similar to SHIBARBIE._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1465)
Variable SHIBARBIE._getValues(uint256).rTransferAmount (contracts/Token.sol#1153) is too similar to SHIBARBIE._getTValues(uint256).tTransferAmount (contracts/Token.sol#1174)
Variable SHIBARBIE._getValues(uint256).rTransferAmount (contracts/Token.sol#1153) is too similar to SHIBARBIE._transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1486)
Variable SHIBARBIE._transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1463) is too similar to SHIBARBIE.takeBurn(address,uint256,uint256,uint256).tTransferAmount (contracts/Token.sol#1422)
Variable SHIBARBIE._transferBothExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1118) is too similar to SHIBARBIE._getTValues(uint256).tTransferAmount (contracts/Token.sol#1174)
Variable SHIBARBIE._transferBothExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1118) is too similar to SHIBARBIE._transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1486)
Variable SHIBARBIE.takeBurn(address,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#1423) is too similar to SHIBARBIE._getValues(uint256).tTransferAmount (contracts/Token.sol#1149)
Variable SHIBARBIE.reflectionFromToken(uint256,bool).rTransferAmount (contracts/Token.sol#1073) is too similar to SHIBARBIE._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1465)
Variable SHIBARBIE.takeBurn(address,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#1423) is too similar to SHIBARBIE._transferStandard(address,address,uint256).tTransferAmount (contracts/Token.sol#1397)
Variable SHIBARBIE._transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1463) is too similar to SHIBARBIE._getValues(uint256).tTransferAmount (contracts/Token.sol#1149)
Variable SHIBARBIE.takeMarketing(address,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#1441) is too similar to SHIBARBIE._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1465)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar
INFO:Detectors:
SHIBARBIE.slitherConstructorVariables() (contracts/Token.sol#875-1541) uses literals with too many digits:
- _tTotal = 10000000000 * (10 ** 18) (contracts/Token.sol#889)
SHIBARBIE.slitherConstructorVariables() (contracts/Token.sol#875-1541) uses literals with too many digits:
- numTokensSellToAddToLiquidity = 1000000 * 10 ** 18 (contracts/Token.sol#918)
SHIBARBIE.slitherConstructorVariables() (contracts/Token.sol#875-1541) uses literals with too many digits:
- _maxTxAmount = 5000000000 * 10 ** 18 (contracts/Token.sol#919)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits
INFO:Detectors:
Loop condition 'i < _excluded.length' (contracts/Token.sol#1199) should use cached array length instead of referencing 'length' member of the storage array.
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#cache-array-length
INFO:Detectors:
SHIBARBIE._decimals (contracts/Token.sol#895) should be constant
SHIBARBIE._name (contracts/Token.sol#893) should be constant
SHIBARBIE._symbol (contracts/Token.sol#894) should be constant
SHIBARBIE._tTotal (contracts/Token.sol#889) should be constant
SHIBARBIE.deadAddress (contracts/Token.sol#905) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant
INFO:Detectors:
SHIBARBIE.uniswapV2Pair (contracts/Token.sol#913) should be immutable
SHIBARBIE.uniswapV2Router (contracts/Token.sol#912) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
INFO:Slither:./contracts/Token.sol analyzed (10 contracts with 88 detectors), 143 result(s) found
```

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

No major issues were found in the output



CONTRACT ASSESMENT

```
| Contract|      Type      |Bases |      |      |
|:-----:|:-----:|:-----:|:-----:|:-----:|
|  └─ | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
|||||
| **Context** | Implementation | |||
|  └─ | _msgSender | Internal 🔒 | | |
|  └─ | _msgData | Internal 🔒 | | |
|||||
| **Ownable** | Implementation | Context |||
|  └─ | <Constructor> | Public ! | ● | NO ! |
|  └─ | owner | Public ! | | NO ! |
|  └─ | renounceOwnership | Public ! | ● | onlyOwner |
|  └─ | transferOwnership | Public ! | ● | onlyOwner |
|  └─ | geUnlockTime | Public ! | | NO ! |
|  └─ | lock | Public ! | ● | onlyOwner |
|  └─ | unlock | Public ! | ● | NO ! |
|||||
| **IERC20** | Interface | |||
|  └─ | totalSupply | External ! | | NO ! |
|  └─ | balanceOf | External ! | | NO ! |
|  └─ | transfer | External ! | ● | NO ! |
|  └─ | allowance | External ! | | NO ! |
|  └─ | approve | External ! | ● | NO ! |
|  └─ | transferFrom | External ! | ● | NO ! |
|||||
| **SafeMath** | Library | |||
|  └─ | add | Internal 🔒 | | |
|  └─ | sub | Internal 🔒 | | |
|  └─ | sub | Internal 🔒 | | |
|  └─ | mul | Internal 🔒 | | |
```



CONTRACT ASSESMENT

```
|  | div | Internal | | | |
|  | div | Internal | | |
|  | mod | Internal | | |
|  | mod | Internal | | |
|||||
| **Address** | Library | | |
|  | isContract | Internal | | |
|  | sendValue | Internal | | |
|  | functionCall | Internal | | |
|  | functionCall | Internal | | |
|  | functionCallWithValue | Internal | | |
|  | functionCallWithValue | Internal | | |
|  | _functionCallWithValue | Private | | |
|||||
| **IUniswapV2Factory** | Interface | | |
|  | feeTo | External | | |NO |
|  | feeToSetter | External | | |NO |
|  | getPair | External | | |NO |
|  | allPairs | External | | |NO |
|  | allPairsLength | External | | |NO |
|  | createPair | External | | |NO |
|  | setFeeTo | External | | |NO |
|  | setFeeToSetter | External | | |NO |
|||||
| **IUniswapV2Pair** | Interface | | |
|  | name | External | | |NO |
|  | symbol | External | | |NO |
|  | decimals | External | | |NO |
|  | totalSupply | External | | |NO |
|  | balanceOf | External | | |NO |
|  | allowance | External | | |NO |
|  | approve | External | | |NO |
|  | transfer | External | | |NO |
|  | transferFrom | External | | |NO |
|  | DOMAIN_SEPARATOR | External | | |NO |
|  | PERMIT_TYPEHASH | External | | |NO |
|  | nonces | External | | |NO |
|  | permit | External | | |NO |
|  | MINIMUM_LIQUIDITY | External | | |NO |
```



CONTRACT ASSESMENT

```
|  | factory | External ! | |NO ! |
|  | token0 | External ! | |NO ! |
|  | token1 | External ! | |NO ! |
|  | getReserves | External ! | |NO ! |
|  | price0CumulativeLast | External ! ||NO ! |
|  | price1CumulativeLast | External ! ||NO ! |
|  | kLast | External ! | |NO ! |
|  | burn | External ! | ● |NO ! |
|  | swap | External ! | ● |NO ! |
|  | skim | External ! | ● |NO ! |
|  | sync | External ! | ● |NO ! |
|  | initialize | External ! | ● |NO ! |
|||||
| **IUniswapV2Router01** | Interface | |||
|  | factory | External ! | |NO ! |
|  | WETH | External ! | |NO ! |
|  | addLiquidity | External ! | ● |NO ! |
|  | addLiquidityETH | External ! | 🏠 |NO ! |
|  | removeLiquidity | External ! | ● |NO ! |
|  | removeLiquidityETH | External ! | ● |NO ! |
|  | removeLiquidityWithPermit | External ! | ● |NO ! |
|  | removeLiquidityETHWithPermit | External ! | ● |NO ! |
|  | swapExactTokensForTokens | External ! | ● |NO ! |
|  | swapTokensForExactTokens | External ! | ● |NO ! |
|  | swapExactETHForTokens | External ! | 🏠 |NO ! |
|  | swapTokensForExactETH | External ! | ● |NO ! |
|  | swapExactTokensForETH | External ! | ● |NO ! |
|  | swapETHForExactTokens | External ! | 🏠 |NO ! |
|  | quote | External ! | |NO ! |
|  | getAmountOut | External ! | |NO ! |
|  | getAmountIn | External ! | |NO ! |
|  | getAmountsOut | External ! | |NO ! |
|  | getAmountsIn | External ! | |NO ! |
|||||
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
|  | removeLiquidityETHSupportingFeeOnTransferTokens | External ! | ● |NO ! |
|  | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! | ● |NO ! |
```



CONTRACT ASSESMENT

```
|  | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | ● | NO ! |
|  | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | 🟢 | NO ! |
|  | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | ● | NO ! |
|||||
| **SHIBARBIE** | Implementation | Context, IERC20, Ownable |||
|  | <Constructor> | Public ! | ● | NO ! |
|  | name | Public ! | | NO ! |
|  | symbol | Public ! | | NO ! |
|  | decimals | Public ! | | NO ! |
|  | totalSupply | Public ! | | NO ! |
|  | balanceOf | Public ! | | NO ! |
|  | transfer | Public ! | ● | NO ! |
|  | allowance | Public ! | | NO ! |
|  | approve | Public ! | ● | NO ! |
|  | transferFrom | Public ! | ● | NO ! |
|  | increaseAllowance | Public ! | ● | NO ! |
|  | decreaseAllowance | Public ! | ● | NO ! |
|  | isExcludedFromReward | Public ! | | NO ! |
|  | totalFees | Public ! | | NO ! |
|  | deliver | Public ! | ● | NO ! |
|  | reflectionFromToken | Public ! | | NO ! |
|  | tokenFromReflection | Public ! | | NO ! |
|  | excludeFromReward | Public ! | ● | onlyOwner |
|  | includeInReward | External ! | ● | onlyOwner |
|  | _transferBothExcluded | Private 🗝️ | ● | |
|  | <Receive Ether> | External ! | 🟢 | NO ! |
|  | _reflectFee | Private 🗝️ | ● | |
|  | _getValues | Private 🗝️ | | |
|  | _getTValues | Private 🗝️ | | |
|  | _getRValues | Private 🗝️ | | |
|  | _getRate | Private 🗝️ | | |
|  | _getCurrentSupply | Private 🗝️ | | |
|  | _takeLiquidity | Private 🗝️ | ● | |
|  | calculateTaxFee | Private 🗝️ | | |
|  | calculateLiquidityFee | Private 🗝️ | | |
|  | removeAllFee | Private 🗝️ | ● | |
```

CONTRACT ASSESMENT

```

|  | restoreAllFee | Private |  |  |
|  | isExcludedFromFee | Public |  | NO |
|  | _approve | Private |  |  |
|  | _transfer | Private |  |  |
|  | swapAndLiquify | Private |  | lockTheSwap |
|  | swapTokensForEth | Private |  |  |
|  | addLiquidity | Private |  |  |
|  | _tokenTransfer | Private |  |  |
|  | _transferStandard | Private |  |  |
|  | takeBurn | Private |  |  |
|  | takeMarketing | Private |  |  |
|  | _transferToExcluded | Private |  |  |
|  | _transferFromExcluded | Private |  |  |
|  | excludeFromFee | Public |  | onlyOwner |
|  | includeInFee | Public |  | onlyOwner |
|  | setMarketingWallet | External |  | onlyOwner |
|  | setFeePercent | External |  | onlyOwner |
|  | setNumTokensSellToAddToLiquidity | External |  | onlyOwner |
|  | setMaxTxAmount | External |  | onlyOwner |
|  | setSwapAndLiquifyEnabled | Public |  | onlyOwner |

```

Legend

| Symbol | Meaning |

|:-----:|-----|

| | Function can modify state |

| | Function is payable |



FUNCTIONAL TESTING

1- Adding liquidity (**passed**):

<https://testnet.bscscan.com/tx/0x6891f2eb02a2b3c5a1a38238cccef0a14d8c35416a630a2924abe01c02f7f0a4>

2- Buying when excluded (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x5acebb24719d737d927c0e7df5ac213988fd1a158df19b5b658c5a04d535b8fc>

3- Selling when excluded (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xf0980d2879d51e67d6bb1760ba37308710ba11c0a6de4823b5a0146af4cba29d>

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

<https://testnet.bscscan.com/tx/0x2a87cf6f6c350b3fe1092ce18f8c1f3decc138ffac5ca0a947fe03c238de1e9b>

5- Buying when not excluded from fees (tax 0-10%) (**passed**):

<https://testnet.bscscan.com/tx/0x545dc498340ec49aff48cb9c1145a1ed85128a8b82a8bdabd680a85c387cc0d1>

6- Selling when not excluded from fees (tax 0-10%) (**passed**):

<https://testnet.bscscan.com/tx/0x74aa1cd16a5842d05c2143353361a31eb6ca64863ea6d2291ed99ea8dd491153>

7- Transferring when not excluded from fees (0-10% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x08dc64096894d439e39ff94b060098f243d4240ee4fef39a2e2832bbefc8184e>

8- Internal swap (ETH sent to marketing wallet | Auto-liquidity)(**passed**):

<https://testnet.bscscan.com/tx/0x74aa1cd16a5842d05c2143353361a31eb6ca64863ea6d2291ed99ea8dd491153>



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