auditace.tech

AuditAce
FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

MAGIC

DATED : 12 October 23'

AUDIT SUMMARY

Project name – MAGIC

Date: 12 October 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/address/0xAb0d3CE4Fd5a8f386498d180B396526d39E56BEd#code

Token Information

Token Address :
0xc7Bb9eFBA7dA6f430C06831Ebb0E234c8624e57d

Name : MAGIC

Symbol : MAGIC

Decimals: 9

Owner: 0xf5F2a0255310F97eda5ed25D6cB23c34e6a1B5Ea

Deployer: 0xf5F2a0255310F97eda5ed25D6cB23c34e6a1B5Ea

Token Supply: 100,000,000,000,000,000

Checksum:
388560a874c128a9b7669f396b80ede50a44d6ce

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/address/0xAb0d3CE4Fd5a8f386498d180B396526d39E56BEd#code

TOKEN OVERVIEW

buy fee: 10%

Sell fee: 10%

transfer fee: 10%

Fee Privilege: Static fees

Ownership: Owned

Minting: None

Max Tx: No

Blacklist: No

Other Privileges:

- Initial distribution of the tokens

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 isexercised 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

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

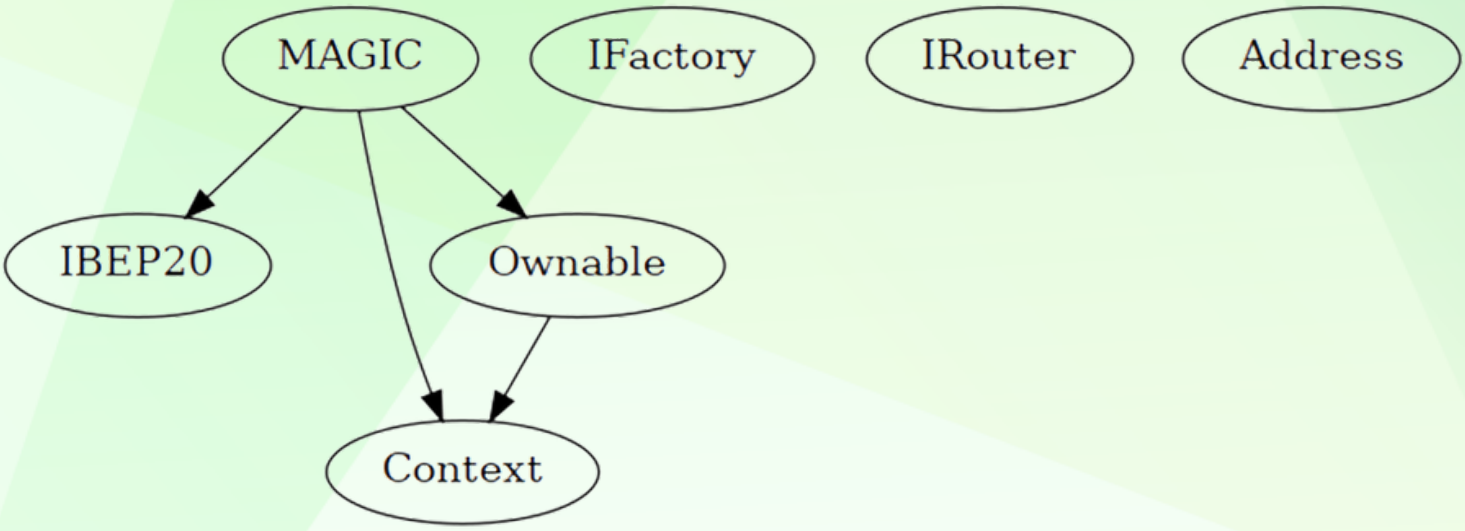
CLASSIFICATION OF RISK

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

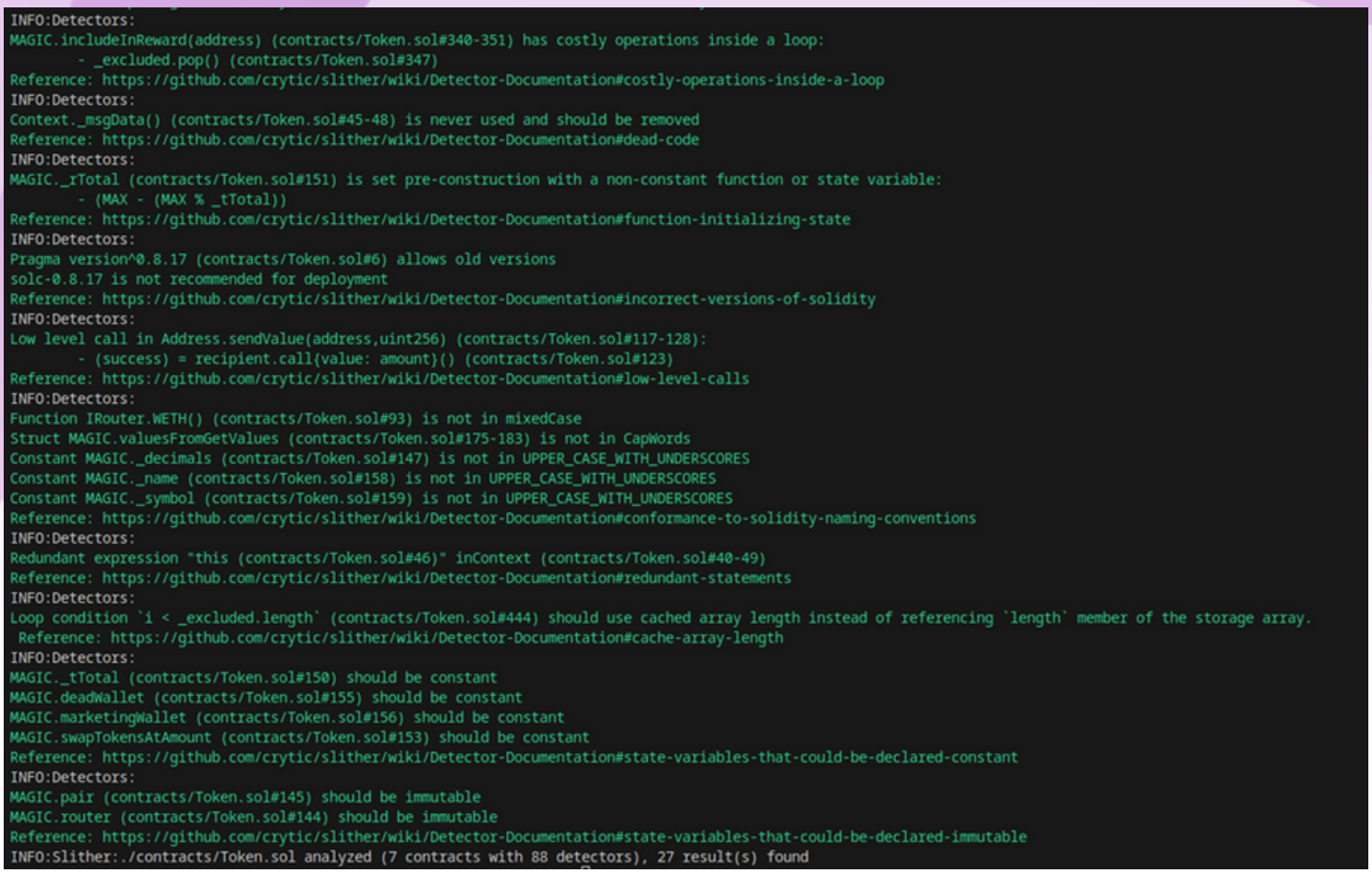
INHERITANCE TREE



POINTS TO NOTE

- Owner is not able to change buy taxes (10% static)
- Owner is not able to change sell taxes (10% static)
- Owner is not able to change transfer taxes (10% static)
- Owner is not able to set max wallet/transfer/buy/sell amounts
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to disable trades
- Owner is not able to mint new tokens

STATIC ANALYSIS



```
INFO:Detectors:
MAGIC.includeInReward(address) (contracts/Token.sol#340-351) has costly operations inside a loop:
        - _excluded.pop() (contracts/Token.sol#347)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#costly-operations-inside-a-loop
INFO:Detectors:
Context._msgData() (contracts/Token.sol#45-48) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code
INFO:Detectors:
MAGIC._rTotal (contracts/Token.sol#151) is set pre-construction with a non-constant function or state variable:
        - (MAX - (MAX % _tTotal))
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#function-initializing-state
INFO:Detectors:
Pragma version^0.8.17 (contracts/Token.sol#6) allows old versions
solc-0.8.17 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
INFO:Detectors:
Low level call in Address.sendValue(address,uint256) (contracts/Token.sol#117-128):
        - (success) = recipient.call{value: amount}() (contracts/Token.sol#123)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls
INFO:Detectors:
Function IRouter.WETH() (contracts/Token.sol#93) is not in mixedCase
Struct MAGIC.valuesFromGetValues (contracts/Token.sol#175-183) is not in CapWords
Constant MAGIC._decimals (contracts/Token.sol#147) is not in UPPER_CASE_WITH_UNDERSCORES
Constant MAGIC._name (contracts/Token.sol#158) is not in UPPER_CASE_WITH_UNDERSCORES
Constant MAGIC._symbol (contracts/Token.sol#159) is not in UPPER_CASE_WITH_UNDERSCORES
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions
INFO:Detectors:
Redundant expression "this (contracts/Token.sol#46)" inContext (contracts/Token.sol#40-49)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements
INFO:Detectors:
Loop condition `i < _excluded.length` (contracts/Token.sol#444) 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:
MAGIC._tTotal (contracts/Token.sol#150) should be constant
MAGIC.deadWallet (contracts/Token.sol#155) should be constant
MAGIC.marketingWallet (contracts/Token.sol#156) should be constant
MAGIC.swapTokensAtAmount (contracts/Token.sol#153) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant
INFO:Detectors:
MAGIC.pair (contracts/Token.sol#145) should be immutable
MAGIC.router (contracts/Token.sol#144) 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 (7 contracts with 88 detectors), 27 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**
IBEP20	Interface			
└	totalSupply	External ❗		NO ❗
└	balanceOf	External ❗		NO ❗
└	transfer	External ❗	🛑	NO ❗
└	allowance	External ❗		NO ❗
└	approve	External ❗	🛑	NO ❗
└	transferFrom	External ❗	🛑	NO ❗
Context	Implementation			
└	_msgSender	Internal 🔒		
└	_msgData	Internal 🔒		
Ownable	Implementation	Context		
└	<Constructor>	Public ❗	🛑	NO ❗
└	owner	Public ❗		NO ❗
└	renounceOwnership	Public ❗	🛑	onlyOwner
└	_setOwner	Private 🔐	🛑	
IFactory	Interface			
└	createPair	External ❗	🛑	NO ❗
IRouter	Interface			
└	factory	External ❗		NO ❗
└	WETH	External ❗		NO ❗
└	addLiquidityETH	External ❗	💵	NO ❗
└	swapExactTokensForETHSupportingFeeOnTransferTokens	External ❗	🛑	NO ❗
Address	Library			
└	sendValue	Internal 🔒	🛑	
MAGIC	Implementation	Context, IBEP20, Ownable		
└	<Constructor>	Public ❗	🛑	NO ❗
└	name	Public ❗		NO ❗

CONTRACT ASSESMENT

└	symbol	Public ❗		NO ❗
└	decimals	Public ❗		NO ❗
└	totalSupply	Public ❗		NO ❗
└	balanceOf	Public ❗		NO ❗
└	allowance	Public ❗		NO ❗
└	approve	Public ❗	🛑	NO ❗
└	transferFrom	Public ❗	🛑	NO ❗
└	increaseAllowance	Public ❗	🛑	NO ❗
└	decreaseAllowance	Public ❗	🛑	NO ❗
└	transfer	Public ❗	🛑	NO ❗
└	isExcludedFromReward	Public ❗		NO ❗
└	reflectionFromToken	Public ❗		NO ❗
└	tokenFromReflection	Public ❗		NO ❗
└	excludeFromReward	Public ❗	🛑	onlyOwner
└	includeInReward	External ❗	🛑	onlyOwner
└	excludeFromFee	Public ❗	🛑	onlyOwner
└	includeInFee	Public ❗	🛑	onlyOwner
└	isExcludedFromFee	Public ❗		NO ❗
└	_reflectRfi	Private 🔐	🛑	
└	_takeMarketing	Private 🔐	🛑	
└	_getValues	Private 🔐		
└	_getTValues	Private 🔐		
└	_getRValues	Private 🔐		
└	_getRate	Private 🔐		
└	_getCurrentSupply	Private 🔐		
└	_approve	Private 🔐	🛑	
└	_transfer	Private 🔐	🛑	
└	_tokenTransfer	Private 🔐	🛑	
└	swapAndLiquify	Private 🔐	🛑	lockTheSwap
└	swapTokensForBNB	Private 🔐	🛑	
└	bulkExcludeFee	External ❗	🛑	onlyOwner
└	<Receive Ether>	External ❗	💵	NO ❗

Legend

Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

FUNCTIONAL TESTING

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0xce311a0ea5347c8eba2cbd0a64995f8b81843f3b50cf0f7977e43a7bbd612afe

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

https://testnet.bscscan.com/tx/0x3009a17f2c3f94243dea62258bc7e96299d2fbae9ad6c3478215f58f955c4f96

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

https://testnet.bscscan.com/tx/0x6fbc566cfb3a6ed9e238def2c879b79332b79bcb0faa8b3e09c07917828e79c0

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

https://testnet.bscscan.com/tx/0x56dbdb173a87410f1c2f9e92ef1acd8c1fb8e41728334d800bf5ba0e5c3be6a0

5- Buying when not excluded (10% tax) (passed):

https://testnet.bscscan.com/tx/0x6e26003f93e26aa01b220ca58ea04c4f59f42011facdfe6a60b5fadbc982e57e

6- Selling when not excluded (10% tax) (passed):

https://testnet.bscscan.com/tx/0xbea91774172be17d3b1fd39f5d0d3e42893ebcca46ae3be21b76df6bf739d780

7- Transferring when not excluded (10% tax) (passed):

https://testnet.bscscan.com/tx/0x4a46dc185b147028588005419d409b633fa1216a2c877942c885f52e1a947370

8- Internal swap (passed):

marketing wallet received ETH

https://testnet.bscscan.com/address/0x96e2297aBe1bA278f650AE8c6a1D690d3E8BeE05#internaltx

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