

Smart Contract Audit

FOR

GROK AI 2.0

DATED: 08 November 23'



AUDIT SUMMARY

Project name - GROK AI 2.0

Date: 08 November 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	2	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/0xd5673e47c662 7522ea69e3412a28309811862458



Token Information

Token Address: -

0x7a76573b4e0207f58921C7356B800B6cea590131

Name: GROK AI 2.0

Symbol: GROK20

Decimals: 9

Network: Binance smart chain

Token Type: ERC20

Owner: - 0xbfA9e00288D16aFb401f265DD50793874B4a84f8

Deployer: -

0xbfA9e00288D16aFb401f265DD50793874B4a84f8

Token Supply: 420000000000

Checksum: 0ff4376de461c7768aeb7a75b5a3f1ee

Testnet version: -

https://testnet.bscscan.com/address/0xd5673e47c6627522ea

69e3412a28309811862458



TOKEN OVERVIEW

buy fee: 0-5%

Sell fee: 0-15%

transfer fee: 0%

Fee Privilege: Owner

Ownership: Owned

Minting: None

Max Tx: No

Blacklist: No

Other Privileges:

- Initial distribution of the tokens
- Modifying fees
- Enabling trades
- -bulk exempts fee
- -claim stuck tokens.
- Update deadline



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-byline 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





CLASSIFICATION OF RISK

Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas Optimization
 /Suggestion

Description

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

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	2
Gas Optimization /Suggestions	0



POINTS TO NOTE

- Owner can renounce the ownership.
- Owner can transfer the ownership.
- Owner can exclude wallets from rewards.
- Owner can set buy and sell fee not more than 10%.
- Owner can set the minimum swap amount not less than 0.001% of the total supply.
- Owner can set swapthreshold



STATIC ANALYSIS

```
Gordon Assaphed (quify(unit25) (Grobin 19179-78)) ignores return value by unissapt/Suptur-Add.(quidityEM(value: newblance)(address(this), otherwalf, 8,8,0640,block.timestamp) (Grob28.sol1793-780)

Reference: https://github.com/cryit/Grithurs/sis/Lorector_Gordon
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Grob28.com/troctor_Gordon assaphed sol22) (Grob28.sol1893)

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Reference: https://githbo.com/crytic/alithur/sis/Jottoctor_Gordon assaphed sol2230

Reference: https://git
```

```
Reentrancy in GrokeD. transfer(address,address,int26) (Grok2D.sol869-732):

External calls:

- swaphod.Lquify(idquidtyTokens) (Grok2D.sol8719)

- unissapyZhouter.addi.qquidtyTokens) (Grok2D.sol8719)

- unissapyZhouter.addi.qquidtyTokens) (Grok2D.sol8710)

- unissapyZhouter.addi.qquidtyTokens) (Grok2D.sol8720)

- swaphod.dquify(idquidtyTokens) (Grok2D.sol8720)

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- swaphod.endurkering after the call(s):

- tokentransfer(from,to,anount) (Grok2D.sol880)

- liquidityTee = 0 (Grok2D.sol880)

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- tokentransfer(from,to,anount) (Grok2D.sol8800)

- tokentransfer(from,to,anount) (Gr
```

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INDIDECTION:
In crisins. transfer(address, address, uint256) (Grok20.su18695-722):
Enternal calls:

- rempholiquify(fujedityTokens) (Grok20.su18719)

- unissapy78suter.sapfacatTokensFertTokens(ladfr, 0, path, address(this), block.timestamp) (Grok20.su18700-709)

- unissapy78suter.sapfacatTokensFertTokens(ladfress(this), otherNalf, 0, 0,0040, block.timestamp) (Grok20.su18700-709)

- unissapy78suter.sapfacatTokensFertTokens(ladfress(this), otherNalf, 0, 0,0040, block.timestamp) (Grok20.su18700-709)

- unissapy78suter.sapfacatTokensFertTokensfertTokens(tokenAmount, 0, path, address(this), block.timestamp) (Grok20.su18710-707)

- address(m) isnowladus (Grok20.su18710)

- sunissapy78suter.addlipaidity(Fiviation: membalance) (Grok20.su18710)

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STATIC ANALYSIS

```
INFO:Detectors:
Grok20.balances (Grok20.sol#389) is never used in Grok20 (Grok20.sol#330-879)
Reference: https://github.com/crytlc/slither/miki/Detector-DocumentationHunused-state-variable
INFO:Detectors:
Loop condition i < _excluded.length (Grok20.sol#3618) should use cached array length instead of referencing 'length' member of the storage array.
Reference: https://github.com/crytic/slither/miki/Detector-DocumentationMcache-array-length
INFO:Detectors:
Grok20.DEAD (Grok20.sol#369) should be constant
Grok20._mane (Grok20.sol#369) should be constant
Grok20._mane (Grok20.sol#362) should be constant
Grok20._mane (Grok20.sol#362) should be constant
Grok20._mane (Hrok20.sol#362) should be constant
INFO:Detectors:
Grok20.EVE (Grok20.sol#367) should be immutable
Grok20.totalBulFees (Grok20.sol#369) should be immutable
Grok20.totalBulFees (Grok20.sol#369) should be immutable
Grok20.totalBulFees (Grok20.sol#369) should be immutable
Grok20.unimmap0/2Router (Grok20.sol#372) should b
```

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

No major issues were found in the output



FUNCTIONAL TESTING

Exclude from reward(passed) -

https://testnet.bscscan.com/tx/0xc6674448d0cf10dc379782f4ad647581d4068c411 90ca320d4bfd35a2a312d5e

Include in reward(passed) -

https://testnet.bscscan.com/tx/0xbb35d8a1244a3331e4d3b34a3f22623ccad037547 6ed2fd559224089eff592f9

Update Fee Buy(Passed) -

https://testnet.bscscan.com/tx/0x10fc53b6f70330f330602980a28c5b2aa2b8c803f 176eb435afaf2f265158898

Update Fee Sell(Passed) -

https://testnet.bscscan.com/tx/0xe28aeb6cd350494a862347ddff35ea83a64d721f6 86613de7fda6cb1f3778dfd

Set Swap Token At Amount(Passed) -

https://testnet.bscscan.com/tx/0x4f31488f7ae3b03c520feec636a15ce33d418af658 c69f155cc573757ce94d38

Set Swap Enabled(Passed) -

https://testnet.bscscan.com/tx/0xa331d6d73c8b254fbc6d3557267b4b951bec78640 1e9f4aa92e7c466ad8da6fe

Exclude From Fees(Passed) -

https://testnet.bscscan.com/tx/0x23743d823aa84233eb2f918e31b45d4ba6dcf28155a6e2e15210086e2d713774



MANUAL TESTING

Severity: Low

function: excludeFromReward

Status: Open

Overview:

functions can take a zero address as a parameter (0x00000...). If a function parameter of address type is not properly validated by checking for zero addresses, there could be serious consequences for the contract's functionality.

```
function excludeFromReward(address account) public onlyOwner() {
    require(!_isExcluded[account], "Account is already excluded");
    if(_rOwned[account] > 0) {
        _tOwned[account] = tokenFromReflection(_rOwned[account]);
    }
    _isExcluded[account] = true;
    _excluded.push(account);
}
```

Suggestion:

It is suggested that the address should not be zero or dead



MANUAL TESTING

Severity: Low

function: mapping

Status: Open

Overview:

It's simply saying that no visibility was specified, so it's going with the default. This has been related to security issues in contracts.

mapping (address => uint256) balances;

Suggestion:

You can easily silence the warning by adding the mapping public:



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