

Smart Contract Audit

FOR

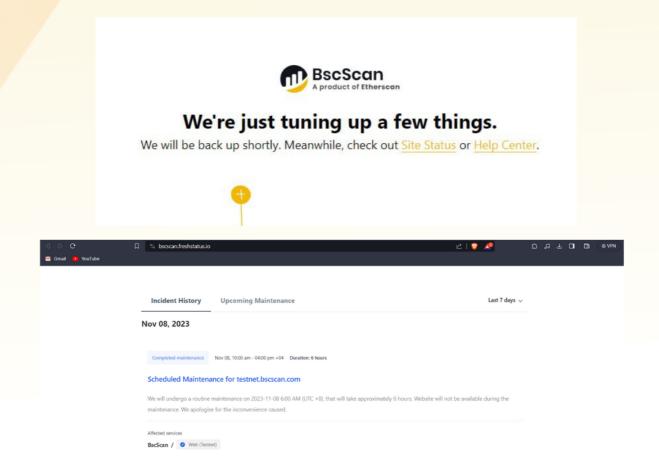
GROK AI 2.0

DATED: 08 November 23'



NOTE

This Contract is Not Tested on BSC testnet, because the BSC Testnet maintenance is going on and the servers are down.



All the risks mentioned are of Manual Review.

Functional testnet links will be updated in the report after the Testnet servers are back to Normal.



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.



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: -



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
100.0tectors:

Grob28.com/troctor_Gordon assaphed sol22) (Grob28.sol1893)

Grob28.com/troctor_Gordon assaphed sol22) (Grob28.sol2893)

Grob28.com/troctor_Gordon assaphed sol22)

Reference: https://githbo.com/crytic/alithur/sis/Jottoctor_Gordon assaphed (Grob28.sol239)

Reference: https://githbo.com/crytic/alithur/sis/Jottoctor_Gordo
```

```
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)

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

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

- address(Dist) andrelung(newbalance) (Grok2D.sol8721)

- address(Dist) andrelung(newbalance) (Grok2D.sol8721)

External calls sending th:

- swaphod.iquify(idquifyTokens) (Grok2D.sol8721)

- unissapyZhouter.addi.qquidtyTokens) (Grok2D.sol8721)

- unissapyZhouter.addi.qquidtyTokens) (Grok2D.sol8721)

- swaphod.iquify(idquifyTokens) (Grok2D.sol8721)

- swaphod.iquify(idquifyTokens) (Grok2D.sol8721)

- swaphod.iquify(idquifyTokens) (Grok2D.sol8721)

- swaphod.oddi.qquifytigtyTokens) (Grok2D.sol8721)

- swaphod.oddi.qquifytigtyTokens) (Grok2D.sol8720)

- swaphod.oddi.qquifytigtyTokens) (Grok2D.sol8820)

- idquidtyToken after the call(s):

-
```

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

- rempholiquify(fujedityTohens) (Grok20.su18719)

- unissapy78suter.sapfacatTokensPertTokingportingFeroIntransferTokens(hif,0,path,address(this),block.timestamp) (Grok20.su18700-709)

- unissapy78suter.sapfacatTokensPertTokingportingFeroIntransferTokens(hif,0,path,address(this),block.timestamp) (Grok20.su18700-709)

- unissapy78suter.sapfacatTokensPertTokens(laddress(this),sthernialf,0,00040,block.timestamp) (Grok20.su18730-709)

- unissapy78suter.sapfacatTokensPertTokens(tokenAmount,0,path,address(this),block.timestamp) (Grok20.su18772-777)

- address(b).sendvalus(nesbalance) (Grok20.su18710)

- sunissapy78suter.addlingiality(Fivianie: membalance) (Address(this),sthernialf,0,0,0040,block.timestamp) (Grok20.su18733-7069)

- sunissapy78suter.addlingiality(Fivianie: membalance) (Address(this),sthernialf,0,0,0040,block.timestamp) (Grok20.su18733-7069)

- sunissapy78suter.addlingiality(Fivianie: membalance) (Grok20.su18730)

- sunissapy78suter (Indicanset Indicanset I
```



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



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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