

Smart Contract Audit

FOR

KnowieGTX

DATED: 11 MAR 23'



AUDIT SUMMARY

Project name - KnowieGTX

Date: 11 March, 2023

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

Audit Status: Passed(Contract developed by Pinksale Safu Dev)

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	1	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- Goerli network:

all tests were done on Goerli 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/0x7Da4D12b67 4bcB23e20d7fE018d7cb898344f982#code



Token Information

Token Name: KnowieGTX

Token Symbol: KGTX

Decimals: 18

Token Supply: 100,000,000

Token Address: 0x198599582a80d4f71ce3AAAf2e60d8726575dFC8

Checksum:

2d7c64a76f5f92f97d4f45084c7d0c31c350a1a2

Owner: 0xb386b17eaaeb37dd346703687fbd8314bf2f1d98



TOKEN OVERVIEW

Fees:

Buy Fees: 0%

Sell Fees: 0%

Transfer Fees: 0%

Fees Privilige: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: None



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.

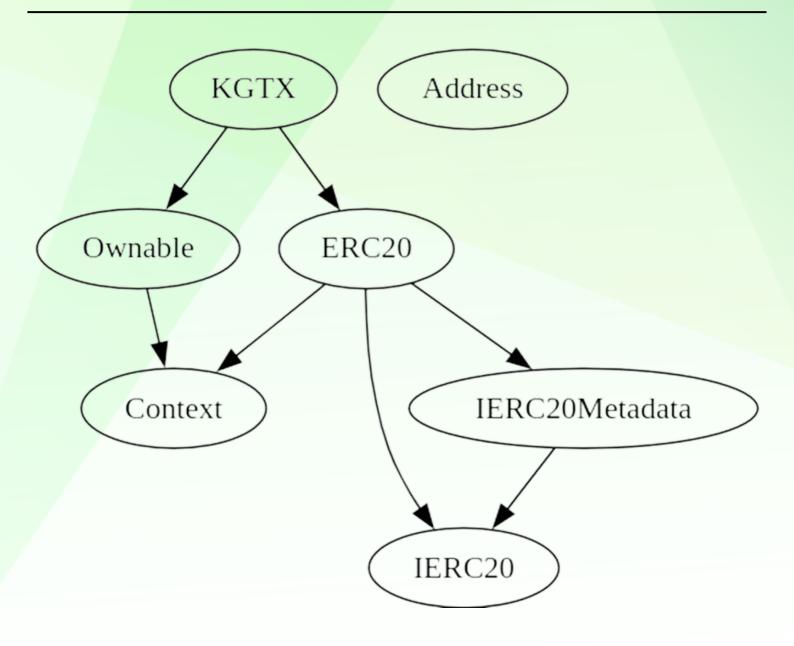
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
◆ Critical	0
♦ High-Risk	1
◆ Medium-Risk	0
♦ Low-Risk	0
Gas Optimization /Suggestions	0



INHERITANCE TREE





POINTS TO NOTE

- Owner must enable trading in order for investors to be able to trade (buy/sell/transfer)
- Owner is not able to set taxes (0% tax)
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to set max buy/sell/transfer amounts
- Owner is not able to disable trades
- Owner is not able to mint new tokens



```
| Contract |
                Type
                              Bases
<mark>|;-----:|;-----:|;-----:</mark>-;|;------;|;-----:|;
       **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
111111
**IUniswapV2Factory** | Interface | |||
| L | feeTo | External | | NO | |
| | | feeToSetter | External | | | NO
| | getPair | External | | NO | |
| | allPairs | External | | NO | |
| | allPairsLength | External | | NO | |
📙 createPair | External 📗 | 🛑 | NO 📗
📙 | setFeeTo | External 📗 | 🛑 | NO 📗
| L | setFeeToSetter | External | | ( NO | | |
| **IUniswapV2Pair** | Interface | | | |
| L | name | External | | NO | |
| L | symbol | External | | NO | |
| L | decimals | External | | NO | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | allowance | External | | NO | |
| L | approve | External | | | NO | |
| L | transfer | External | | | NO | |
| L | transferFrom | External | | | NO | |
| L | DOMAIN SEPARATOR | External | | | NO | |
| L | PERMIT_TYPEHASH | External | | NO |
| L | nonces | External | | NO |
| L | permit | External | | | NO | |
| L | MINIMUM LIQUIDITY | External | | | NO | |
| L | factory | External | | NO | |
| L | token0 | External | | NO | |
| L | token1 | External | | NO | |
| L | getReserves | External | | | NO | |
| L | price0CumulativeLast | External | | NO | |
| L | price1CumulativeLast | External | | NO | |
| L | kLast | External | | NO | |
| L | mint | External | | | NO | |
| L | burn | External | | | NO | |
| L | swap | External | | | NO | |
| L | skim | External | | | NO | |
| L | sync | External | | | NO | |
| L | initialize | External | | | NO | |
```



```
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**IUniswapV2Router01** | Interface | |||
| L | factory | External | | NO | | |
| L | WETH | External | | NO | |
| L | addLiquidity | External | | | NO | |
| | removeLiquidity | External | | | NO | |
| | removeLiquidityETH | External | | | NO | |
| | removeLiquidityWithPermit | External | | | NO | |
| | removeLiquidityETHWithPermit | External | | | NO | |
| L | swapExactTokensForTokens | External | | ( NO | |
📙 | swapTokensForExactTokens | External 📗 | 🛑 | NO 📗
| L | swapExactETHForTokens | External | | 🔟 | NO | |
| L | swapTokensForExactETH | External | | | NO | |
| L | swapExactTokensForETH | External | | | NO | |
| L | swapETHForExactTokens | External | | I NO | |
| L | quote | External | | | NO | |
| L | getAmountOut | External L | NOL |
| L | getAmountIn | External | | NO | |
| L | getAmountsOut | External | | NO | |
| L | getAmountsIn | External | | NO | |
\Pi\Pi\Pi\Pi\Pi
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 | | | | | |
| L | removeLiquidityETHSupportingFeeOnTransferTokens | External | | | NO | |
| L | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | | | | NO | |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | | | NO | |
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| **IERC20** | Interface | | | | | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | transfer | External | | | NO | |
| L | allowance | External | | NO | |
| L | approve | External | | | NO | |
| L | transferFrom | External | | | NO | |
IIIIIII
| **IERC20Metadata** | Interface | IERC20 | | | |
| L | name | External | | NO | |
| L | symbol | External | | NO | |
| L | decimals | External | | NO | |
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```



```
**Address** | Library | |||
| L | sendValue | Internal 🦲 | 🛑 | | | | |
| L | functionCall | Internal 🦰 | 🛑 | |
| L | functionCall | Internal 🦰 | 🛑 | |
| L | functionCallWithValue | Internal 🦲 | 🛑 | |
| L | functionCallWithValue | Internal 🦰 | 🛑 | |
| | | functionStaticCall | Internal | | | | |
| | | functionStaticCall | Internal | | | | |
| L | functionDelegateCall | Internal 🦲 | 🛑 | |
| L | functionDelegateCall | Internal 🦰 | 🛑 | |
| L | verifyCallResult | Internal 🦰 | | |
| L | revert | Private 🦳 | | |
\Pi\Pi\Pi\Pi\Pi
| **Context** | Implementation | |||
| L | _msgSender | Internal 🖺 | | |
| L | _msgData | Internal 🦲 | | |
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| **Ownable** | Implementation | Context | | | |
| L | <Constructor> | Public | | ( NO | |
| L | owner | Public | | NO | |
| L | renounceOwnership | Public | | (e) | onlyOwner |
| L | transferOwnership | Public | | ( ) | onlyOwner |
IIIIIII
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | | | | | |
| L | <Constructor> | Public | | ( ) | NO | |
| L | name | Public | | NO | |
| L | symbol | Public | | NO | |
| L | decimals | Public | | NO | |
| L | totalSupply | Public | | NO | |
| L | balanceOf | Public | | NO | |
| L | transfer | Public | | | | NO | |
| L | allowance | Public | | NO | |
| L | approve | Public | | | NO | |
| L | transferFrom | Public | | ( ) | NO | |
| L | increaseAllowance | Public | | | NO | |
| L | decreaseAllowance | Public | | | NO | |
| L | _transfer | Internal 🦰 | 🛑 | |
| L | _mint | Internal 🦰 | 🛑 | |
| L | _burn | Internal 🦲 | 🧓 | |
```



```
| L | _approve | Internal 🖰 | 🛑 | |
| L | _beforeTokenTransfer | Internal 🦰 | 🛑 | |
| L | _afterTokenTransfer | Internal 🦰 | 🛑 | |
111111
**KGTX** | Implementation | ERC20, Ownable | | |
| L | <Constructor> | Public | | | | | ERC20 |
| L | <Receive Ether> | External | | I I INO | |
| L | claimStuckTokens | External | | | | onlyOwner |
| | excludeFromFees | External | | | onlyOwner |
| L | isExcludedFromFees | Public | | NO | |
| L | enableTrading | External | | | | onlyOwner |
📙 | transfer | Internal 🦰 | 🛑 | |
| Symbol | Meaning |
|:-----|
| I Function is payable |
```



STATIC ANALYSIS

```
Address. revert(bytes.string) (contracts/Token.sol#549-564) is never used and should be removed Address. functionCall(address.bytes) (contracts/Token.sol#686-19) is never used and should be removed Address. functionCall(address.bytes) (contracts/Token.sol#849-619) is never used and should be removed Address. functionCallWithWaller(address.bytes.unt256) (contracts/Token.sol#849-643) is never used and should be removed Address. functionCallWithWaller(address.bytes.unt256) (contracts/Token.sol#849-643) is never used and should be removed Address. functionDelegataCall(address.bytes.string) (contracts/Token.sol#849-643) is never used and should be removed Address. functionDelegataCall(address.bytes.string) (contracts/Token.sol#849-643) is never used and should be removed Address. functionSelt(address.bytes.string) (contracts/Token.sol#849-643) is never used and should be removed Address.string(address.bytes.string) (contracts/Token.sol#849-643) is never used and should be removed Address.string(address.bytes.string) (contracts/Token.sol#849-643) is never used and should be removed Address.string(allexel)(token.sol#849-359) is never used and should be removed Address.string(allexel)(token.sol#849-359) is never used and should be removed Address.verifyCallexel)(token.sol#849-359) is never used and should be removed Addre
```

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

No issues found



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

1- Adding Liquidity (Passed):

liquidity added on Pancakeswap V2:

https://testnet.bscscan.com/tx/0xec8155aa0092c332c8c7210e6a 7d45fda8bc6e3b06e4bb5f40e471ddf4a45669

2- Buying from a non-excluded wallet (0% max)(Passed):

https://testnet.bscscan.com/tx/0x7926ddcc55aa7f6ba2192564167 188d4d600f07f23ec51fdd53ad91771927042

3- Selling from a non-excluded wallet (0% max)(Passed):

https://testnet.bscscan.com/tx/0xaf4bdac0dff594fb3b0659a04f3 5b4e523707012d2417c78f58a010e7dc9f7fe



MANUAL TESTING

Issue: Owner must enable trading

Type: Centralization

Severity: High

Function: enableTrading

Line: 627-630

Overview:

Owner must enable trading in order to start trades.

Since contract is owend by safu dev, enabling trades is guaranteed.

```
function enableTrading() external onlyOwner {
    require(!tradingEnabled, "Trading already enabled.");
    tradingEnabled = true;
}
```



Social Media Overview

Here are the Social Media Accounts of KnowieGTX



https://knowiegtx.app/



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