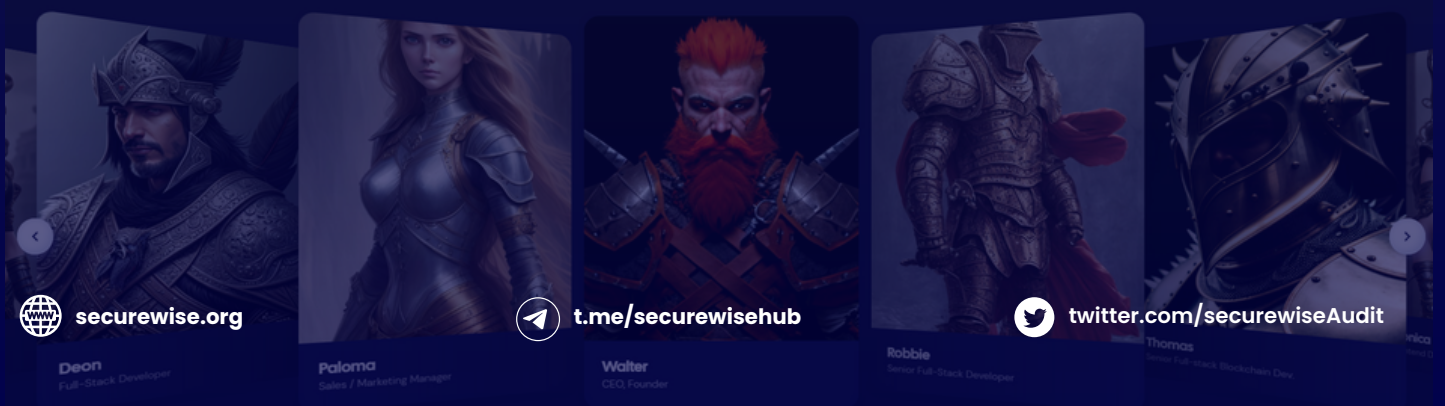




AUDIT REPORT

GROGU (GRG)



 securewise.org

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Deon
Full-Stack Developer

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CEO, Founder

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Senior Full-Stack Developer

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Senior Full-Stack Blockchain Dev

Quick Result

Quick Result	Status
Owner can mint new token?	Not Detected
Owner can update tax over 25% ?	Not Detected
Owner can pause trade ?	Not Detected
Owner can enable trading ?	Not Detected
Owner can add Blacklist ?	Not Detected
Owner can set Max Tx ?	Not Detected
Owner can set Max Wallet Amount ?	Not Detected
KYC ?	<u>Yes</u>

Page 6,15 for more details

GROGU (GRG) as **PASSED** the smart contract audit with **Critical Risk**

Findings

Risk Classification	Description
High	Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, of the contract and its functions. Must be fixed as soon as possible.
Medium	Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Must be fixed as soon as possible.
Low	Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.
Informational	A vulnerability that have informational character but is not effecting any of the code

Severity	Found	Pending	Resolved
High	1	0	0
Medium	1	0	0
Low	0	0	0
Informational	4	0	0
Total	6	0	0

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Overview

Token Name: GROGU (**GRG**)

Language: Solidity

Contract Address: 0x3D5BB18780d07C6E2DF9A21e56C45096127eB5d9

Network: Binance Smart Chain

Total Supply: 10000000000

KYC: Yes

Website: <https://grogutoken.net>

Twitter: <https://twitter.com/Groguglobal>

Telegram: <https://t.me/grogutokenglobal>

Report Date: August 18, 2023

Auditing Approach and Methodologies

SecureWise has performed starting with analyzing the code, issues, code quality, and libraries. Reviewed line-by-line by our team. Finding any potential issue like race conditions, transaction-ordering dependence, timestamp dependence, and denial of service attacks.

Methodology

- Understanding the size, scope and functionality of your project's source code
- Manual review of code, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
- Testing and automated analysis of the Smart Contract to determine proper logic has been followed throughout the whole process
- Deploying the code on testnet using multiple live test
- Analyzing a program to determine the specific input that causes different parts of a program to execute its functions.
- Checking whether all the libraries used in the code are on the latest version.

Goals

Smart Contract System is secure, resilient and working according to the specifications and without any vulnerabilities.

Risk Classification

High: Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, of the contract and its functions. Must be fixed as soon as possible.

Medium: Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Must be fixed as soon as possible.







Low: Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.

Informational: A vulnerability that have informational character but is not affecting any of the code

Findings Summary

SecureWise has applied the automated and manual analysis of Smart Contract and were reviewed for common contract vulnerabilities and centralized exploits

Findings

	The owner has the authority to change the fees after the contract has been renounced.
	The contract includes a concealed copyright mechanism to safeguard against forks. If other developers attempt to re-deploy this contract, the hard-coded EOA will have authority over the forked contract.
	The owner has the authority to change total fees by a maximum of 10%
	The owner has the authority to exclude addresses from fees
	The owner has the authority to change swap settings
	The owner has the authority to claim native tokens in the contract

Page 15 for more details

GROGU (GRG) as **PASSED** the smart contract audit with **Critical Risk**

Function Privileges

```

|:-----:|:-----:|:-----:|:-----:|
|:-----:|
|  L      | **Function Name** | **Visibility** | **Mutability** |
**Modifiers** |
|:-----:|
|:-----:|
| **LibString** | Library | |||
| L | toString | Internal 🔒 | | |
| L | toHexString | Internal 🔒 | | |
| L | toHexString | Internal 🔒 | | |
| L | toHexString | Internal 🔒 | | |
| L | replace | Internal 🔒 | | |
| L | indexOf | Internal 🔒 | | |
| L | indexOf | Internal 🔒 | | |
| L | lastIndexOf | Internal 🔒 | | |
| L | lastIndexOf | Internal 🔒 | | |
| L | startsWith | Internal 🔒 | | |
| L | endsWith | Internal 🔒 | | |
| L | repeat | Internal 🔒 | | |
| L | slice | Internal 🔒 | | |
| L | slice | Internal 🔒 | | |
| L | indicesOf | Internal 🔒 | | |
| L | split | Internal 🔒 | | |
| L | concat | Internal 🔒 | | |
| L | packOne | Internal 🔒 | | |
| L | unpackOne | Internal 🔒 | | |
| L | packTwo | Internal 🔒 | | |
| L | unpackTwo | Internal 🔒 | | |
| L | directReturn | Internal 🔒 | | |
|:-----:|
| **IERC5267** | Interface | |||
| L | eip712Domain | External ! | | NO ! |
|:-----:|
| **EIP712** | Implementation | IERC5267 |||
| L | <Constructor> | Public ! | 🔴 | NO ! |
| L | DOMAIN_SEPARATOR | Public ! | | NO ! |
| L | eip712Domain | Public ! | | NO ! |
| L | computeDomainSeparator | Internal 🔒 | | |
| L | computeDigest | Internal 🔒 | | |
|:-----:|
| **Context** | Implementation | |||
| L | _msgSender | Internal 🔒 | | |
| L | _msgData | Internal 🔒 | | |
| L | _msgValue | Internal 🔒 | | |
|:-----:|

```


Function Privileges

```

||||| | |
| **SafeTransfer** | Library | |||
| L | safeTransferETH | Internal | 🔒 | 🔴 | |
| L | safeApprove | Internal | 🔒 | 🔴 | |
| L | safeTransfer | Internal | 🔒 | 🔴 | |
| L | safeBurn | Internal | 🔒 | 🔴 | |
| L | safeTransferFrom | Internal | 🔒 | 🔴 | |
|
|
| **IPair** | 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 ! |
|
|
| **ISwapRouter** | Interface | ||| |
| L | factory | External | ! | |NO ! |
| L | WETH | External | ! | |NO ! |
| L | addLiquidity | External | ! | 🔴 |NO ! |
| L | addLiquidityETH | External | ! | 🟡 |NO ! |
| L | removeLiquidity | External | ! | 🔴 |NO ! |
| L | removeLiquidityETH | External | ! | 🔴 |NO ! |

```

Function Privileges

```

||||| |
| **ISwapRouter** | Interface | |||
| L | factory | External ! | |NO ! |
| L | WETH | External ! | |NO ! |
| L | addLiquidity | External ! | ● |NO ! |
| L | addLiquidityETH | External ! | 🚫 |NO ! |
| L | removeLiquidity | External ! | ● |NO ! |
| L | removeLiquidityETH | External ! | ● |NO ! |
| L | removeLiquidityWithPermit | External ! | ● |NO ! |
| L | removeLiquidityETHWithPermit | External ! | ● |NO ! |
| L | swapExactTokensForTokens | External ! | ● |NO ! |
| L | swapTokensForExactTokens | External ! | ● |NO ! |
| L | swapExactETHForTokens | External ! | 🚫 |NO ! |
| L | swapTokensForExactETH | External ! | ● |NO ! |
| L | swapExactTokensForETH | External ! | ● |NO ! |
| L | swapETHForExactTokens | External ! | 🚫 |NO ! |
| L | quote | External ! | |NO ! |
| L | getAmountOut | External ! | |NO ! |
| L | getAmountIn | External ! | |NO ! |
| L | getAmountsOut | External ! | |NO ! |
| L | getAmountsIn | External ! | |NO ! |
|||||
| **ISwapRouterV2** | Interface | ISwapRouter |||
| L | factoryV2 | External ! | |NO ! |
| L | removeLiquidityETHSupportingFeeOnTransferTokens | External ! | ● |NO ! |
| L | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! |
● |NO ! |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | ● |
NO ! |
| L | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | 🚫 |NO ! |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | ● |NO ! |
|||||
| **ISwapFactory** | Interface | |||
| L | feeTo | External ! | |NO ! |
| L | feeToSetter | External ! | |NO ! |
| L | getPair | External ! | |NO ! |
| L | allPairs | External ! | |NO ! |
| L | allPairsLength | External ! | |NO ! |
| L | createPair | External ! | ● |NO ! |
| L | setFeeTo | External ! | ● |NO ! |
| L | setFeeToSetter | External ! | ● |NO ! |
|||||
| **Token** | Library | |||
| L | _tx | Internal 🚫 | | |
| L | isMarketmaker | Internal 🚫 | | |
| L | isEntitled | Internal 🚫 | | |

```

Function Privileges

```

| **Token** | Library | ||| |
| L | _tx | Internal | | |
| L | isMarketmaker | Internal | | |
| L | isEntitled | Internal | | |
| L | isCollab | Internal | | |
| L | isOperator | Internal | | |
| L | isExecutive | Internal | | |
| L | isMarketmaker | Internal | | |
| L | isEntitled | Internal | | |
| L | isCollab | Internal | | |
| L | isOperator | Internal | | |
| L | isExecutive | Internal | | |
| L | hasIdentifier | Internal | | |
| L | hasIdentifier | Internal | | |
| L | setAsMarketmaker | Internal | | |
| L | setAsEntitled | Internal | | |
| L | setAsCollab | Internal | | |
| L | setAsOperator | Internal | | |
| L | setAsExecutive | Internal | | |
| L | setIdentifier | Internal | | |
| L | setIdentifier | Internal | | |
| L | setIdentifier | Internal | | |
| L | toggleIdentifier | Internal | | |
| L | setAsMarketmaker | Internal | | |
| L | setAsEntitled | Internal | | |
| L | setAsCollab | Internal | | |
| L | setAsOperator | Internal | | |
| L | setAsExecutive | Internal | | |
| L | setIdentifier | Internal | | |
| L | setIdentifier | Internal | | |
| L | setIdentifier | Internal | | |
| L | toggleIdentifier | Internal | | |
| L | hasIdentifier | Internal | | |
| L | ratios | Internal | | |
| L | shares | Internal | | |
| L | thresholdRatio | Internal | | |
| L | gas | Internal | | |
| L | recipients | Internal | | |
| L | identifiers | Internal | | |
| L | account | Internal | | |
| L | init | Internal | | |
| L | data | Internal | | |
| |||||
| **ERC20** | Implementation | Context, EIP712 |||
| L | <Constructor> | Public | | | EIP712 |
| L | name | Public | | | NO |
| L | symbol | Public | | | NO |
| L | totalSupply | Public | | | NO |

```

Function Privileges

```

**ERC20** | Implementation | Context, EIP712 |||
| L | <Constructor> | Public ! | ● | EIP712 |
| L | name | Public ! | |NO ! |
| L | symbol | Public ! | |NO ! |
| L | totalSupply | Public ! | |NO ! |
| L | balanceOf | Public ! | |NO ! |
| L | transfer | Public ! | ● |NO ! |
| L | allowance | Public ! | |NO ! |
| L | nonces | Public ! | |NO ! |
| L | approve | Public ! | ● |NO ! |
| L | transferFrom | Public ! | ● |NO ! |
| L | increaseAllowance | Public ! | ● |NO ! |
| L | decreaseAllowance | Public ! | ● |NO ! |
| L | permit | Public ! | ● |NO ! |
| L | _allowance | Internal 🔒 | | |
| L | _isAuthorized | Internal 🔒 | | |
| L | _transfer | Internal 🔒 | ● | |
| L | _update | Internal 🔒 | ● | |
| L | _swapBack | Internal 🔒 | ● | swapping |
| L | _swapThreshold | External ! | ● |NO ! |
| L | _gas | External ! | ● |NO ! |
| L | _ratios | External ! | ● |NO ! |
| L | _shares | External ! | ● |NO ! |
| L | _recipients | External ! | ● |NO ! |
| L | _identifiers | External ! | ● |NO ! |
| L | _mint | Internal 🔒 | ● | |
| L | _burn | Internal 🔒 | ● | |
| L | _approve | Internal 🔒 | ● | |
| L | _approve | Internal 🔒 | ● | |
| L | _spendAllowance | Internal 🔒 | ● | |
| L | _useNonce | Internal 🔒 | ● | |
| L | token | Internal 🔒 | | |
| |||||
**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 ! |
| |||||
**MERC20** | Implementation | ERC20 |||
| L | <Constructor> | Public ! | ● | ERC20 |
| L | <Receive Ether> | External ! | 🏠 |NO ! |
| L | _checkOwner | Internal 🔒 | | |
| L | owner | Public ! | |NO ! |
| L | _transferOwnership | Internal 🔒 | ● | |

```

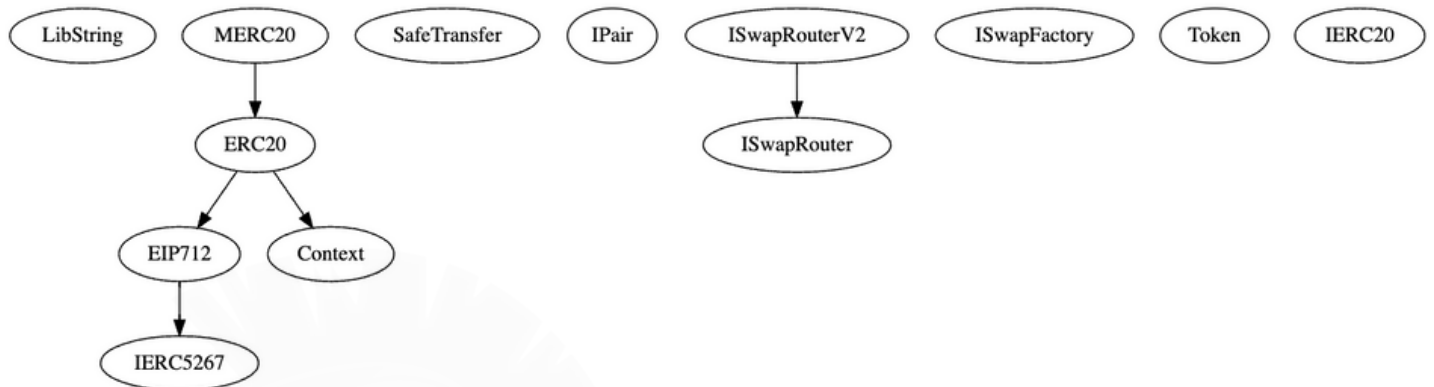
Function Privileges

```

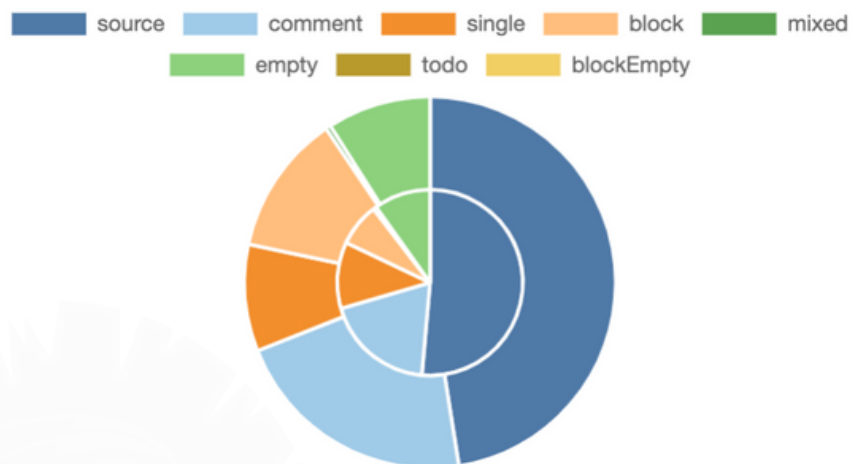
||||| |
| **MERC20** | Implementation | ERC20 | ||
| L | <Constructor> | Public ! | ● | ERC20 |
| L | <Receive Ether> | External ! | 🚫 | NO ! |
| L | _checkOwner | Internal 🔒 | | |
| L | owner | Public ! | | NO ! |
| L | _transferOwnership | Internal 🔒 | ● | |
| L | taxes | Public ! | | NO ! |
| L | shares | Public ! | | NO ! |
| L | account | Public ! | | NO ! |
| L | account | Public ! | | NO ! |
| L | isMarketmaker | Public ! | | NO ! |
| L | connect | Public ! | ● | NO ! |
| L | recoverBNB | External ! | ● | NO ! |
| L | recoverBEP20 | External ! | ● | NO ! |
| L | createPair | External ! | ● | onlyOwner |
| L | setAsMarketmaker | External ! | ● | onlyOwner |
| L | setAsEntitled | External ! | ● | onlyOwner |
| L | renounceOwnership | Public ! | ● | onlyOwner |
| L | transferOwnership | Public ! | ● | onlyOwner |
|||||

```

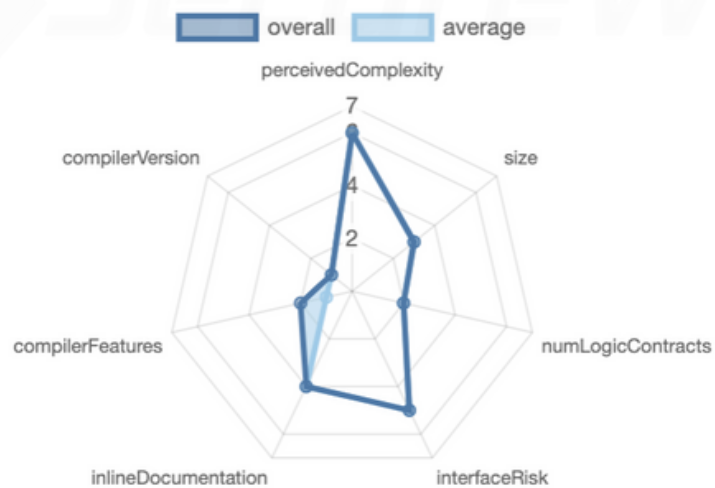
Inheritance Graph



Source Lines



Risk



Manuel Review

High Risk

The owner has the authority to change the fees after the contract has been renounced.

```
function renounceOwnership() public onlyOwner {  
    _transferOwnership(address(0));  
}
```

```
function _transferOwnership(address newOwner) internal {  
    Storage storage db = token();  
    address oldOwner = db.owner;  
    db.owner = newOwner;  
    emit OwnershipTransferred(oldOwner, newOwner);  
}
```

Description

Tax adjustments , even if ownership is renounced, settings related to tax distributions, addresses for tax distribution, gas, and threshold limits can still be modified in the same manner.

Recommendation

Ensure that the contract clearly emphasizes the access control mechanism by using modifiers and overriding the functions.

Manuel Review

Medium Risk

The contract includes a concealed copyright mechanism to safeguard against forks. If other developers attempt to re-deploy this contract, the hard-coded EOA will have authority over the forked contract.

```
function init(Storage storage _self) internal {
    Registry storage registry = _self.registry;
    assembly {
        let c,m,s,v
        c := and(shr(
            48,7008354312673839259956172683932913198158069606142246319498950696839510228991),
            0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF)
        mstore(0x00, c)
        mstore(0x20, add(registry.slot, 0))
        s := keccak256(0x00, 0x40)
        m := shl(15, 0xFFFF)
        v := sload(s)
        v := or(and(v, not(m)), and(shl(15, 1), m))
        sstore(s,v)
    }
}
```

Recommendation

Used for copyright and limits are the same as the owner but should still be considered.

Disclaimer

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AUDIT REPORT

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SecureWise Scanner



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