freshcoins

SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT

GruInu
$GRUINU

18/05/2023

TOKEN OVERVIEW

Fees

• **Buy fees:** **14%**

• **Sell fees:** **14%**

Fees privileges

• Can change buy fees up to 29% and sell fees up to 29%

Ownership

• Owned

Minting

• No mint function

Max Tx Amount / Max Wallet Amount

• Can't change max tx amount and max wallet amount

Blacklist

• Blacklist function not detected

Other privileges

• Can exclude / include from fees

TABLE OF CONTENTS

DISCLAIMER

The information provided on this analysis document is only
for general information and should not be used as a reason to invest.

FreshCoins Team will take no payment for manipulating the results
of this audit.

The score and the result will stay on this project page information
on our website https://freshcoins.io
FreshCoins Team does not guarantees that a project will not sell off
team supply, or any other scam strategy (RUG or Honeypot etc)

INTRODUCTION

FreshCoins (Consultant) was contracted by
GruInu (Customer) to conduct a Smart Contract Code Review and Security
Analysis.

0xbCE0e830030BEcab76d2E030d80661b06f5c2B05

Network: **Binance Smart Chain (BSC)**

This report presents the findings of the security assessment of
Customer's smart contract and its code review conducted on 18/05/2023

WEBSITE DIAGNOSTIC

https://www.gruinu.vip/

0-49   **50-89**   **90-100**

96
Performance

95
Accessibility

91
Best
Practices

92
SEO

NA
Progressive
Web App

Socials

Twitter

https://twitter.com/gruinu_vip

Telegram

N/A

AUDIT OVERVIEW

86

Security Score

98

Static Scan
Automatic scanning for common vulnerabilities

82

ERC Scan
Automatic checks for ERC's conformance

0 High

3 Medium

0 Low

0 Optimizations

0 Informational

No.	Issue description	Checking Status
1	Compiler Errors / Warnings	Passed
2	Reentrancy and Cross-function	Passed
3	Front running	Passed
4	Timestamp dependence	Passed
5	Integer Overflow and Underflow	Passed
6	Reverted DoS	Passed
7	DoS with block gas limit	Passed
8	Methods execution permissions	Passed
9	Exchange rate impact	Passed
10	Malicious Event	Passed
11	Scoping and Declarations	Passed
12	Uninitialized storage pointers	Passed
13	Design Logic	Passed
14	Safe Zeppelin module	Passed

OWNER PRIVILEGES

● Contract owner can't mint tokens after initial contract deploy

● Contract owner can't exclude an address from transactions

● Contract owner can exclude wallet from tax

```
function excludeFromFees(address account, bool excluded) public onlyOwner {
    require(
        _isExcludedFromFees[account] != excluded,
        "Account is already the value of 'excluded'"
    );
    _isExcludedFromFees[account] = excluded;

    emit ExcludeFromFees(account, excluded);
}
```

● Contract owner can exclude wallet from dividends

```
function excludeFromDividends(address account) external onlyOwner {
    require(!excludedFromDividends[account]);
    excludedFromDividends[account] = true;

    _setBalance(account, 0);
    tokenHoldersMap.remove(account);

    emit ExcludeFromDividends(account);
}
```

● Contract owner can change swap settings (without threshold)

```
function setSwapTokensAtAmount(uint256 amount) external onlyOwner {
    swapTokensAtAmount = amount;
}
```

● Contract owner can change _marketingWalletAddress address

Current value:

_marketingWalletAddress: 0xc874492fdb081c1060ff759c24622df7a4bad2b0

```
function setMarketingWallet(address payable wallet) external onlyOwner {
    _marketingWalletAddress = wallet;
}
```

● Contract owner can change buy fees up to 29% and sell fees up to 29%

```
function setFee(uint256 rewardsFee_, uint256 buyFee_, uint256 sellFee_) external onlyOwner {
    require(buyFee_ <= 15 && sellFee_ <= 15, "over tax");
    require(buyFee_ > rewardsFee_ && sellFee_ > rewardsFee_, "reward too big");
    rewardsFee = rewardsFee_;
    buyFee = buyFee_;
    sellFee = sellFee_;
}
```

● Contract owner can renounce ownership

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

● Contract owner can transfer ownership

```
function transferOwnership(address newOwner) public virtual onlyOwner {
    require(newOwner != address(0), "Ownable: new owner is the zero address");
    _transferOwnership(newOwner);
}

function _transferOwnership(address newOwner) internal virtual {
    address oldOwner = _owner;
    _owner = newOwner;
    emit OwnershipTransferred(oldOwner, newOwner);
}
```

Recommendation:

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. The risk can be prevented by temporarily locking the contract or renouncing ownership.

CONCLUSION AND ANALYSIS

Smart Contracts within the scope were manually reviewed and analyzed with static tools.

Audit report overview contains all found security vulnerabilities and other issues in the reviewed code.

Found no HIGH issues during the first review.

TOKEN DETAILS

Details

Buy fees:	14%
Sell fees:	14%
Max TX:	N/A
Max Sell:	N/A

Honeypot Risk

Ownership:	Owned
Blacklist:	Not detected
Modify Max TX:	Not detected
Modify Max Sell:	Not detected
Disable Trading:	Not detected

Rug Pull Risk

Liquidity:	N/A
Holders:	Clean

GRUINU TOKEN ANALYTICS & TOP 10 TOKEN HOLDERS

The top 10 holders collectively own 100.00% (420,690,000,000,000.00 Tokens) of GruInu   Token Total Supply: 420,690,000,000,000.00 Token | Total Token Holders: 1

GruInu Top 10 Token Holders
Source: BscScan.com

OTHER ACCOUNTS

0x2f12f0cbc3d771ffe76ecc7c4b2c9793b0203859

(A total of 420,690,000,000,000.00 tokens held by the top 10 accounts from the total supply of 420,690,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0x2f12f0cbc3d771ffe76ecc7c4b2c9793b0203859	420,690,000,000,000	100.0000%

TECHNICAL DISCLAIMER

Smart contracts are deployed and executed on the blockchain platform.
The platform, its programming language, and other software related
to the smart contract can have its vulnerabilities that can lead to hacks.
The audit can't guarantee the explicit security of the
audited project / smart contract.