



# CFG NINJA AUDITS

Security Assessment

**Homie Wars Token**

December 4, 2022

**Homie  
WARS**

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# Assessment Summary

This report has been prepared for Homie Wars Token on the Binance network. CFGNINJA provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders
- Thorough line-by-line manual review of the entire codebase by industry experts.



# Technical Findings Summary

## Classification of Risk

Severity	Description
🔴 Critical	Risks are those that impact the safe functioning of a platform and must be addressed before launch. Users should not invest in any project with outstanding critical risks.
🟠 Major	Risks can include centralization issues and logical errors. Under specific circumstances, these major risks can lead to loss of funds and/or control of the project.
🟡 Medium	Risks may not pose a direct risk to users' funds, but they can affect the overall functioning of a platform
🟢 Minor	Risks can be any of the above but on a smaller scale. They generally do not compromise the overall integrity of the Project, but they may be less efficient than other solutions.
ℹ️ Informational	Errors are often recommended to improve the code's style or certain operations to fall within industry best practices. They usually do not affect the overall functioning of the code.

## Findings

Severity	Found	Pending	Resolved
🔴 Critical	0	0	0
🟠 Major	2	2	0
🟡 Medium	1	1	0
🟢 Minor	4	4	0
ℹ️ Informational	1	1	0
Total	8	8	0



# Project Overview

## Token Summary

Parameter	Result
Address	
Name	Homie Wars
Token Tracker	Homie Wars (HomieCoin)
Decimals	18
Supply	100,000,000,000
Platform	Binance
compiler	v0.8.6+commit.11564f7e
Contract Name	HomieCoin
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	<a href="https://bscscan.com/address/0x50C5C8e6b2B2e86135A1B909176436723866356D">https://bscscan.com/ address/0x50C5C8e6b2B2e86135A1B909176436723866356D</a>
Payment Tx	0xb249fb4dbfec4c0ef98c9281617b6101875a7a852fe0e5b55e aabfd057f3f6a7



# Project Overview

## Risk Analysis Summary

Parameter	Result
Buy Tax	2%
Sale Tax	2%
Is honeypot?	Clean
Can edit tax?	Yes
Is anti whale?	No
Is blacklisted?	No
Is whitelisted?	No
Holders	2
Confidence Level	Low

The following quick summary it's added to the project overview; however, there are more details about the audit and its results. Please read every detail.



MainNet Contract was Not Assessed

**TestNet Contract Assessed  
Contract Name**

Name	Contract	Live
Homie Wars	0x25aeaeF7A39f91657122227472ff6b779B402189	Yes

**Solidity Code Provided**

SollID	File Sha-1	FileName
homiecoin	0123900267a9989adcd739d6eba9f2041c5f3087	homiecoin.sol





## Mint Check

**The project owners of Homie Wars do not have a mint function in the contract, owner cannot mint tokens after initial deploy.**

**The Project has a Total Supply of 100,000,000,000 and cannot mint any more than the Max Supply.**

**Mint Notes:**

**Auditor Notes:**

**Project Owner Notes:**



**Owner can't mint new coins**





# Fees Check

**The project owners of Homie Wars do not have the ability to set fees higher than 25% .**

**The team May have fees defined; however, they can't set those fees higher than 25% or may not be able to configure the same.**

Tax Fee Notes:

Auditor Notes: The contract currently has 2% buy and 2% sale taxes, and cannot be set higher than 4.

Project Owner Notes:



Fees can be changed up to a maximum of 25%



# Blacklist Check

The project owners of Homie Wars do not have a blacklist function their contract.

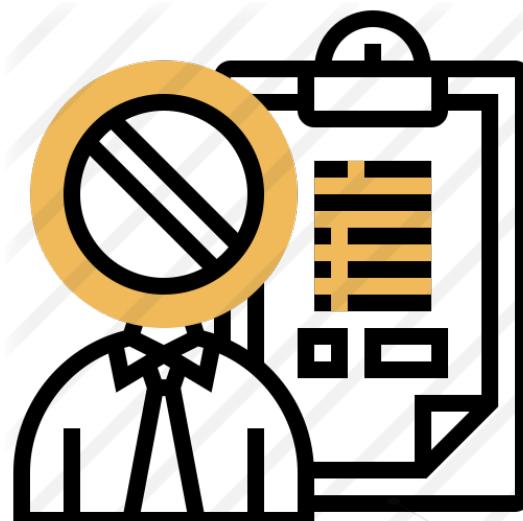
The Project allow owners to transfer their tokens without any restrictions.

Token owner cannot blacklist the contract: Malicious or compromised owners can trap contracts relying on tokens with a blacklist.

Blacklist Notes:

Auditor Notes:

Project Owner Notes: undefined





# MaxTx Check

**The Project Owners of Homie Wars cannot set max tx amount**

**The Team allows any investors to swap, transfer or sell their total amount if needed.**

MaxTX Notes:

Auditor Notes:

Project Owner Notes:

Project Has No MaxTX



# Pause Trade Check

**The Project Owners of Homie Wars don't have the ability to stop or pause trading.**

**The Team has done a great job to avoid stop trading, and investors has the ability to trade at any given time without any problems**

Pause Trade Notes:

Auditor Notes: There is an Open Trade and can be defined to false and block trades.

Project Owner Notes:



Owner can't pause trading

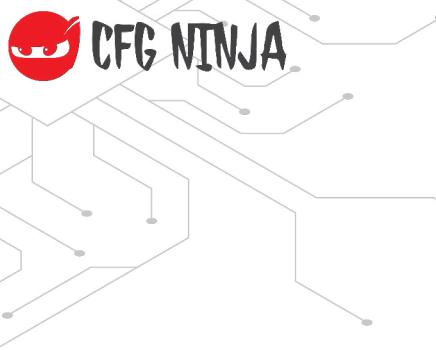


# Contract Ownership

The contract ownership of Homie Wars has been renounced.

Having no owner means that all the ownable functions in the contract can not be called by anyone, this often leads to more trust on the project.





# Liquidity Ownership

The token does not have liquidity at the moment of the audit, block

If liquidity is unlocked, then the token developers can do what is infamously known as 'rugpull'. Once investors start buying token from the exchange, the liquidity pool will accumulate more and more coins of established value (e.g., ETH or BNB or Tether). This is because investors are basically sending these tokens of value to the exchange, to get the new token. Developers can withdraw this liquidity from the exchange, cash in all the value and run off with it. Liquidity is locked by renouncing the ownership of liquidity pool (LP) tokens for a fixed time period, by sending them to a time-lock smart contract. Without ownership of LP tokens, developers cannot get liquidity pool funds back. This provides confidence to the investors that the token developers will not run away with the liquidity money. It is now a standard practice that all token developers follow, and this is what really differentiates a scam coin from a real one.

[Read More](#)



# KYC Information

The Project Owners of Homie Wars have provided KYC Documentation.

KYC Certificated can be found on the Following:  
KYC Data

KYC Information Notes:

Auditor Notes:

Project Owner Notes:



# Smart Contract Vulnerability Checks

ID	Severity	Name	File	location
SWC-100	Pass	Function Default Visibility	homiecoin.sol	L: 0 C: 0
SWC-101	Pass	Integer Overflow and Underflow.	homiecoin.sol	L: 0 C: 0
SWC-102	Pass	Outdated Compiler Version file.	homiecoin.sol	L: 0 C: 0
SWC-103	Low	A floating pragma is set.	homiecoin.sol	L: 6 C: 0
SWC-104	Pass	Unchecked Call Return Value.	homiecoin.sol	L: 0 C: 0
SWC-105	Pass	Unprotected Ether Withdrawal.	homiecoin.sol	L: 0 C: 0
SWC-106	Pass	Unprotected SELFDESTRUCT Instruction	homiecoin.sol	L: 0 C: 0
SWC-107	Pass	Read of persistent state following external call.	homiecoin.sol	L: 0 C: 0
SWC-108	Pass	State variable visibility is not set..	homiecoin.sol	L: 405 C: 9
SWC-109	Pass	Uninitialized Storage Pointer.	homiecoin.sol	L: 0 C: 0
SWC-110	Pass	Assert Violation.	homiecoin.sol	L: 0 C: 0
SWC-111	Pass	Use of Deprecated Solidity Functions.	homiecoin.sol	L: 0 C: 0
SWC-112	Pass	Delegate Call to Untrusted Callee.	homiecoin.sol	L: 0 C: 0



ID	Severity	Name	File	location
SWC-113	Pass	Multiple calls are executed in the same transaction.	homiecoin.sol	L: 0 C: 0
SWC-114	Pass	Transaction Order Dependence.	homiecoin.sol	L: 0 C: 0
SWC-115	Pass	Authorization through tx.origin.	homiecoin.sol	L: 0 C: 0
SWC-116	Pass	A control flow decision is made based on The block.timestamp environment variable.	homiecoin.sol	L: 0 C: 0
SWC-117	Pass	Signature Malleability.	homiecoin.sol	L: 0 C: 0
SWC-118	Pass	Incorrect Constructor Name.	homiecoin.sol	L: 0 C: 0
SWC-119	Pass	Shadowing State Variables.	homiecoin.sol	L: 0 C: 0
SWC-120	Pass	Potential use of block.number as source of randomness.	homiecoin.sol	L: 0 C: 0
SWC-121	Pass	Missing Protection against Signature Replay Attacks.	homiecoin.sol	L: 0 C: 0
SWC-122	Pass	Lack of Proper Signature Verification.	homiecoin.sol	L: 0 C: 0
SWC-123	Pass	Requirement Violation.	homiecoin.sol	L: 0 C: 0
SWC-124	Pass	Write to Arbitrary Storage Location.	homiecoin.sol	L: 0 C: 0
SWC-125	Pass	Incorrect Inheritance Order.	homiecoin.sol	L: 0 C: 0
SWC-126	Pass	Insufficient Gas Griefing.	homiecoin.sol	L: 0 C: 0
SWC-127	Pass	Arbitrary Jump with Function Type Variable.	homiecoin.sol	L: 0 C: 0



ID	Severity	Name	File	location
SWC-128	Pass	DoS With Block Gas Limit.	homiecoin.sol	L: 0 C: 0
SWC-129	Pass	Typographical Error.	homiecoin.sol	L: 0 C: 0
SWC-130	Pass	Right-To-Left-Override control character (U+202E).	homiecoin.sol	L: 0 C: 0
SWC-131	Pass	Presence of unused variables.	homiecoin.sol	L: 0 C: 0
SWC-132	Pass	Unexpected Ether balance.	homiecoin.sol	L: 0 C: 0
SWC-133	Pass	Hash Collisions with Multiple Variable Length Arguments.	homiecoin.sol	L: 0 C: 0
SWC-134	Pass	Message call with hardcoded gas amount.	homiecoin.sol	L: 0 C: 0
SWC-135	Pass	Code With No Effects (Irrelevant/Dead Code).	homiecoin.sol	L: 0 C: 0
SWC-136	Pass	Unencrypted Private Data On-Chain.	homiecoin.sol	L: 0 C: 0

We scan the contract for additional security issues using MYTHX and industry-standard security scanning tools.



# Smart Contract Vulnerability Details

## SWC-103 - Floating Pragma.

**CWE-664: Improper Control of a Resource Through its Lifetime.**

### References:

### Description:

Contracts should be deployed with the same compiler version and flags that they have been tested with thoroughly. Locking the pragma helps to ensure that contracts do not accidentally get deployed using, for example, an outdated compiler version that might introduce bugs that affect the contract system negatively.

### Remediation:

Lock the pragma version and also consider known bugs (<https://github.com/ethereum/solidity/releases>) for the compiler version that is chosen.

Pragma statements can be allowed to float when a contract is intended for consumption by other developers, as in the case with contracts in a library or EthPM package. Otherwise, the developer would need to manually update the pragma in order to compile locally.

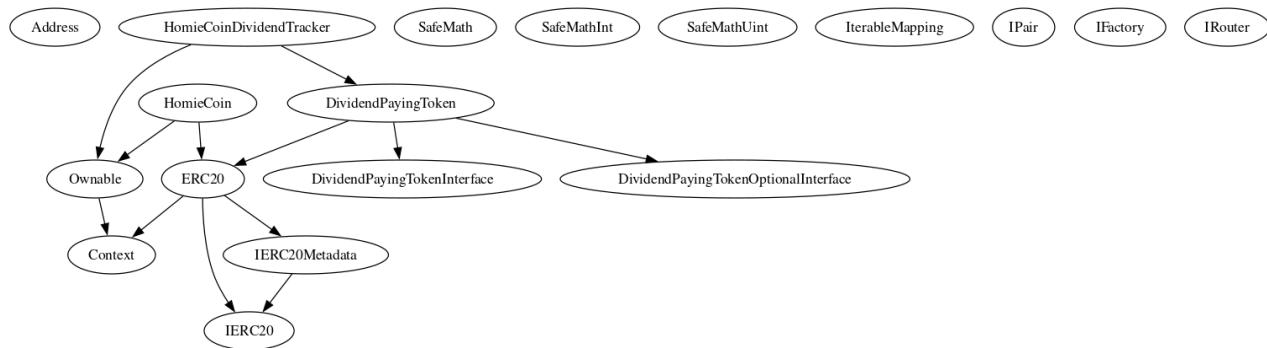
### References:

Ethereum Smart Contract Best Practices - Lock pragmas to specific compiler version.



# Inheritance

The contract for Homie Wars has the following inheritance structure.



# Smart Contract Advance Checks

ID	Severity	Name	Result	Status
HomieCoin-01	Minor	Potential Sandwich Attacks.	Fail	Pending
HomieCoin-02	Minor	Function Visibility Optimization	Fail	Pending
HomieCoin-03	Minor	Lack of Input Validation.	Fail	Pending
HomieCoin-04	Major	Centralized Risk In addLiquidity.	Fail	Not Found
HomieCoin-05	Major	Missing Event Emission.	Fail	Pending
HomieCoin-06	Minor	Conformance with Solidity Naming Conventions.	Fail	Not Found
HomieCoin-07	Minor	State Variables could be Declared Constant.	Pass	Not Found
HomieCoin-08	Major	Dead Code Elimination.	Pass	Pending
HomieCoin-09	Major	Third Party Dependencies.	Pass	Not Found
HomieCoin-10	Major	Initial Token Distribution.	Pass	Not-Found
HomieCoin-11	Informational	excludeFromDividends can be called and is missing an Include Function to revert action.	Pass	Not Found
HomieCoin-12	Major	Centralization Risks In The X Role	Pass	Not Found
HomieCoin-13	Informational	Extra Gas Cost For User..	Fail	Pending



ID	Severity	Name	Result	Status
HomieCoin-1 4	Informational	Unnecessary Use Of SafeMath	Fail	Pending



# HomieCoin-01 | Potential Sandwich Attacks.

Category	Severity	Location	Status
Security	<span style="color: green;">●</span> Minor	homiecoin.sol: 456,13	<span style="color: blue;">🔗</span> Pending

## Description

A sandwich attack might happen when an attacker observes a transaction swapping tokens or adding liquidity without setting restrictions on slippage or minimum output amount. The attacker can manipulate the exchange rate by frontrunning (before the transaction being attacked) a transaction to purchase one of the assets and make profits by back running (after the transaction being attacked) a transaction to sell the asset. The following functions are called without setting restrictions on slippage or minimum output amount, so transactions triggering these functions are vulnerable to sandwich attacks, especially when the input amount is large:

- swapExactTokensForETHSupportingFeeOnTransferTokens()
- addLiquidityETH()

## Remediation

We recommend setting reasonable minimum output amounts, instead of 0, based on token prices when calling the aforementioned functions.

## References:

[What Are Sandwich Attacks in DeFi – and How Can You Avoid Them?.](#)



# HomieCoin-02 | Function Visibility Optimization.

Category	Severity	Location	Status
Gas Optimization	<span style="color: blue;">i</span> Minor	homiecoin.sol: 686,21, 687,21	<span style="color: blue;">🕒</span> Pending

## Description

The following functions are declared as public and are not invoked in any of the contracts contained within the projects scope:

Function Name	Parameters	Visibility
updateDividendTracker		external
updateRouter		external
excludeFromFees		external
excludeMultipleAccountsFromFees		external
setSwapTokensAtAmount		external
setAutomatedMarketMakerPair		external
updateGasForProcessin		external

The functions that are never called internally within the contract should have external visibility

## Remediation

We advise that the function's visibility specifiers are set to external, and the array-based arguments change their data location from memory to calldata, optimizing the gas cost of the function.

## References:

external vs public best practices.



## HomieCoin-03 | Lack of Input Validation.

Category	Severity	Location	Status
Volatile Code	<span style="color: green;">●</span> Minor	homiecoin.sol: 498,9	<span style="color: blue;">●</span> Pending

### Description

The given input is missing the check for the non-zero address.

The given input is missing the check for the setMarketingWallet, setbuybackWallet, setSwapEnabled, confirmLiquidityFilled is missing required function.

### Remediation

We advise the client to add the check for the passed-in values to prevent unexpected errors as below:

```
...
require(receiver != address(0), "Receiver is the zero address");
...
```

We also recommend customer to review the following function that is missing a required validation. setMarketingWallet, setbuybackWallet, setSwapEnabled, confirmLiquidityFilled is missing required function.



# HomieCoin-04 | Centralized Risk In addLiquidity.

Category	Severity	Location	Status
Coding Style	<span style="color: orange;">● Major</span>	homiecoin.sol: 438,13	<span style="color: orange;">Not Found</span>

## Description

uniswapV2Router.addLiquidityETH{value: ethAmount}(address(this), tokenAmount, 0, 0, owner(), block.timestamp);

The addLiquidity function calls the uniswapV2Router.addLiquidityETH function with the to address specified as owner() for acquiring the generated LP tokens from the HomieCoin-WBNB pool.

As a result, over time the \_owner address will accumulate a significant portion of LP tokens. If the \_owner is an EOA (Externally Owned Account), mishandling of its private key can have devastating consequences to the project as a whole.

## Remediation

We advise the to address of the uniswapV2Router.addLiquidityETH function call to be replaced by the contract itself, i.e. address(this) , and to restrict the management of the LP tokens within the scope of the contract's business logic. This will also protect the LP tokens from being stolen if the \_owner account is compromised. In general, we strongly recommend centralized privileges or roles in the protocol to be improved via a decentralized mechanism or via smart-contract based accounts with enhanced security practices, f.e. Multisignature wallets.

1. Indicatively, here are some feasible solutions that would also mitigate the potential risk:
2. Time-lock with reasonable latency, i.e. 48 hours, for awareness on privileged operations;
3. Assignment of privileged roles to multi-signature wallets to prevent single point of failure due to the private key;

Introduction of a DAO / governance / voting module to increase transparency and user involvement

## Project Action

After carefully review and testing, the liquidity is going to Dead Wallet and there is no method to update or change the wallet or function to any other location, therefore this has been remediated.



## HomieCoin-05 | Missing Event Emission.

Category	Severity	Location	Status
Volatile Code	<span style="color: green;">●</span> Major	homiecoin.sol: 478, 14	<span style="color: blue;">[ ]</span> Pending

### Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes. The linked code does not create an event for the transfer.

### Remediation

Emit an event for critical parameter changes. It is recommended emitting events for the sensitive functions that are controlled by centralization roles.



# HomieCoin-06 | Conformance with Solidity Naming Conventions.

Category	Severity	Location	Status
Coding Style	<span style="color: green;">●</span> Minor	homiecoin.sol: 294,14	<span style="color: red;">☒</span> Not Found

## Description

Solidity defines a naming convention that should be followed. Rule exceptions: Allow constant variable name/symbol/decimals to be lowercase. Allow \_ at the beginning of the mixed\_case match for private variables and unused parameters.

```
setbuybackFee  
setbuybackWallet
```

## Remediation

Follow the Solidity naming convention.

<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-convention>



## HomieCoin-13 | Extra Gas Cost For User.

Category	Severity	Location	Status
Logical Issue	<span>i</span> Informational	homiecoin.sol: 345, 8	<span>🕒</span> Pending

### Description

The user may trigger a tax distribution during the transfer process, which will cost a lot of gas and it is unfair to let a single user bear it.

### Remediation

We advise the client to make the owner responsible for the gas costs of the tax distribution.

### Project Action



# HomieCoin-14 | Unnecessary Use Of SafeMath

Category	Severity	Location	Status
Logical Issue	<span style="color: blue;">i</span> Medium	homiecoin.sol: 20, 11	<span style="color: green;">🕒</span> Pending

## Description

The SafeMath library is used unnecessarily. With Solidity compiler versions 0.8.0 or newer, arithmetic operations

will automatically revert in case of integer overflow or underflow.

```
library SafeMath {
```

An implementation of SafeMath library is found.

```
using SafeMath for uint256;
```

SafeMath library is used for uint256 type in contract.

```
_balances[recipient] = _balances[recipient].add(amount);
```

```
magnifiedDividendPerShare = magnifiedDividendPerShare.add(
```

```
    (amount).mul(magnitude) / totalSupply()
```

```
);
```

Note: Only a sample of 2 SafeMath library usage in this contract (out of 14) are shown above.

## Remediation

We advise removing the usage of SafeMath library and using the built-in arithmetic operations provided by the

Solidity programming language

## Project Action



# Social Media Checks

Social Media	URL	Result
Twitter	<a href="https://twitter.com/homie_wars">https://twitter.com/homie_wars</a>	Pass
Other	<a href="https://www.rareboard.com/homie-wars">https://www.rareboard.com/homie-wars</a>	Pass
Website	<a href="https://homiewars.com/">https://homiewars.com/</a>	Pass
Telegram	<a href="https://t.me/homiewars">https://t.me/homiewars</a>	Pass

We recommend to have 3 or more social media sources including a completed working websites.

**Social Media Information Notes:**

**Auditor Notes:** undefined

**Project Owner Notes:**



# Assessment Results

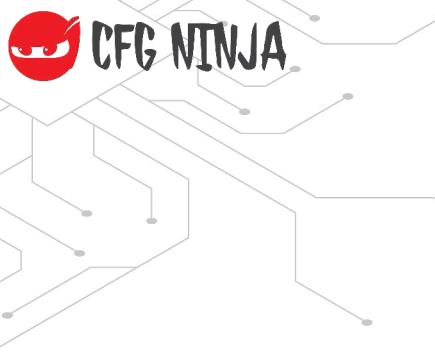
## Score Results

Review	Score
Overall Score	83/100
Auditor Score	70/100
Review by Section	Score
Manual Scan Score	35/35
SWC Scan Score	36 /37
Advance Check Score	12 /28

The Following Score System Has been Added to this page to help understand the value of the audit, the maximum score is 100, however to attain that value the project must pass and provide all the data needed for the assessment. Our Passing Score has been changed to 80 Points, if a project does not attain 80% is an automatic failure. Read our notes and final assessment below.

## Audit Passed





## Assessment Results

### Important Notes:

- No high-risk Exploits/Vulnerabilities Were Found in the Source Code.
- The contract has a series of items that can be improved to avoid potential issues.
- Safemath is no longer needed and is recommended to recode it.

**Auditor Score =70**  
**Audit Passed**



# Appendix

## Finding Categories

### Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that act against the nature of decentralization, such as explicit ownership or specialized access roles in combination with a mechanism to relocate funds.

### Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimal EVM opcodes resulting in a reduction on the total gas cost of a transaction.

### Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on how `block.timestamp` works.

### Control Flow

Control Flow findings concern the access control imposed on functions, such as owner-only functions being invokeable by anyone under certain circumstances.

### Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that may result in a vulnerability.

### Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to make the codebase more legible and, as a result, easily maintainable.

### Inconsistency

Inconsistency findings refer to functions that should seemingly behave similarly yet contain different code, such as a constructor assignment imposing different require statements on the input variables than a setter function.

### Coding Best Practices

ERC 20 Coding Standards are a set of rules that each developer should follow to ensure the code meets a set of criteria and is readable by all the developers.





## Disclaimer

CFGNINJA has conducted an independent security assessment to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the reviewed code for the scope of this assessment. This report does not constitute agreement, acceptance, or advocacy for the Project, and users relying on this report should not consider this as having any merit for financial advice in any shape, form, or nature. The contracts audited do not account for any economic developments that the Project in question may pursue, and the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude, and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are entirely free of exploits, bugs, vulnerabilities or depreciation of technologies.

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