



# CFG NINJA AUDITS

Security Assessment

## Bet2Win Token

October 16, 2023

Audit Status: Pass

Audit Edition: Advance



# Risk Analysis

## Classifications of Manual Risk Results

Classification	Description
🔴 Critical	Danger or Potential Problems.
🟠 Major	Be Careful or Fail test.
🟢 Minor	Pass, Not-Detected or Safe Item.
🟡 Informational	Function Detected

## Manual Code Review Risk Results

Contract Priviledge	Description
🟢 Buy Tax	6
🟢 Sale Tax	6
🟢 Cannot Buy	Pass
🟢 Cannot Sale	Pass
🟢 Max Tax	6
🟢 Modify Tax	Not-Detected
🟢 Fee Check	Pass
🟢 Is Honeypot?	Not detected
🟢 Trading Cooldown	Not Detected
🔴 Can Pause Trade?	Pass
🔴 Pause Transfer?	Detected, Owner needs to enable trade.



Contract Priviledge	Description
● Max Tx?	Pass
● Is Anti Whale?	Not Detected
● Is Anti Bot?	Not Detected
● Is Blacklist?	Not Detected
● Blacklist Check	Pass
● is Whitelist?	Detected
● Can Mint?	Pass
● Is Proxy?	Not Detected
● Can Take Ownership?	Not detected
● Hidden Owner?	Not detected
● Owner	0xf0DED21DD3D4bFE2d84E500697aF648D8867615d
● Self Destruct?	Not Detected
● Other?	Not detected
● Other?	Not detected
● Holders	3
● Auditor Confidence	High

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.



# Project Overview

## Token Summary

Parameter	Result
Address	0x583AB92F0eC7B735EA54DE103a9a96A8E4cad87E
Name	Bet2Win
Token Tracker	Bet2Win (B2W)
Decimals	18
Supply	1,000,000
Platform	Binance Smart Chain
compiler	v0.8.4+commit.c7e474f2
Contract Name	StandardToken
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	<a href="https://bscscan.com/address/0x583ab92f0ec7b735ea54de103a9a96a8e4cad87e#code">https://bscscan.com/address/0x583ab92f0ec7b735ea54de103a9a96a8e4cad87e#code</a>
Payment Tx	0x2b3a30ef40a5296a8c1bb3358ea4497c0e17c3a1b040d0bd e94ccefffb68678a0



## Main Contract Assessed

### Contract Name

Name	Contract	Live
Bet2Win	0x583AB92FOeC7B735EA54DE103a9a96A8E4cad87E	Yes

## TestNet Contract was Not Assessed

## Solidity Code Provided

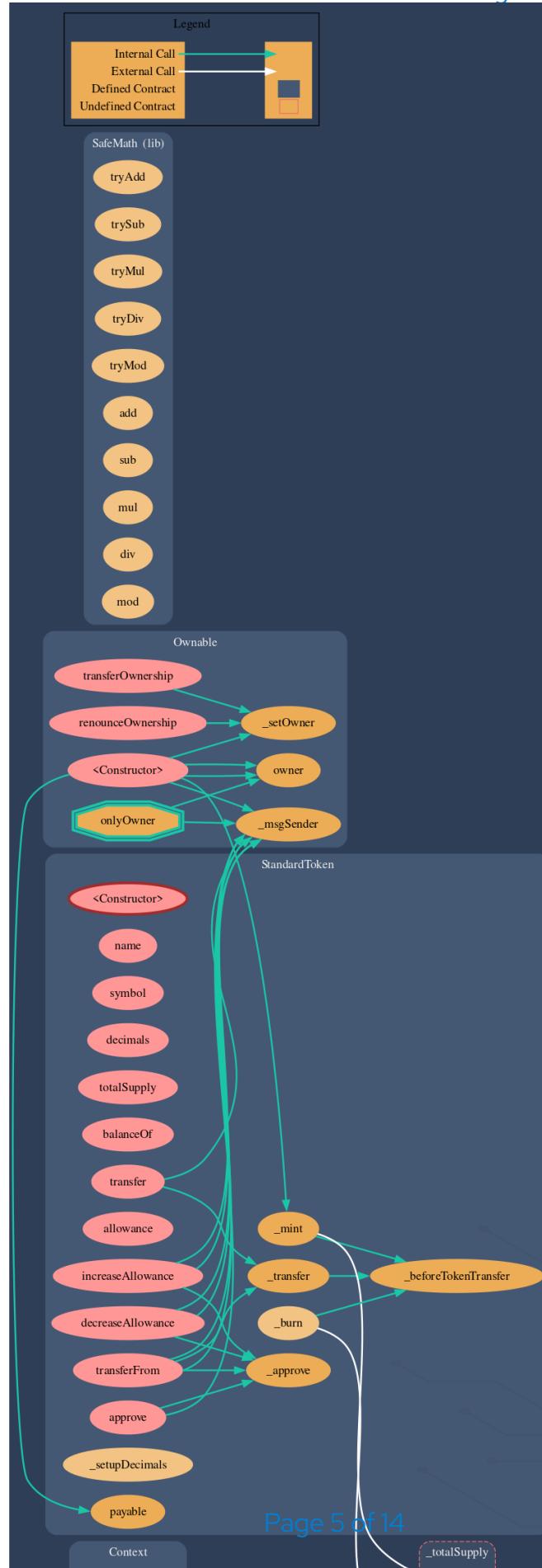
SollID	File Sha-1	FileName
Bet2Win	01a956d27494e8cdf0f7e8b707a1803e4f986168	Bet2Win.sol
Bet2Win		
Bet2Win		
Bet2Win		





# Call Graph

The contract for Bet2Win has the following call graph structure.



# Smart Contract Vulnerability Checks

The Smart Contract Weakness Classification Registry (SWC Registry) is an implementation of the weakness classification scheme proposed in EIP-1470. It is loosely aligned to the terminologies and structure used in the Common Weakness Enumeration (CWE) while overlaying a wide range of weakness variants that are specific to smart contracts.

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



ID	Severity	Name	File	location
SWC-111	Pass	Use of Deprecated Solidity Functions.	StandardToken.sol	L: 0 C: 0
SWC-112	Pass	Delegate Call to Untrusted Callee.	StandardToken.sol	L: 0 C: 0
SWC-113	Pass	Multiple calls are executed in the same transaction.	StandardToken.sol	L: 0 C: 0
SWC-114	Pass	Transaction Order Dependence.	StandardToken.sol	L: 0 C: 0
SWC-115	Pass	Authorization through tx.origin.	StandardToken.sol	L: 0 C: 0
SWC-116	Pass	A control flow decision is made based on The block.timestamp environment variable.	StandardToken.sol	L: 0 C: 0
SWC-117	Pass	Signature Malleability.	StandardToken.sol	L: 0 C: 0
SWC-118	Pass	Incorrect Constructor Name.	StandardToken.sol	L: 0 C: 0
SWC-119	Pass	Shadowing State Variables.	StandardToken.sol	L: 0 C: 0
SWC-120	Pass	Potential use of block.number as source of randomness.	StandardToken.sol	L: 0 C: 0
SWC-121	Pass	Missing Protection against Signature Replay Attacks.	StandardToken.sol	L: 0 C: 0
SWC-122	Pass	Lack of Proper Signature Verification.	StandardToken.sol	L: 0 C: 0
SWC-123	Pass	Requirement Violation.	StandardToken.sol	L: 0 C: 0
SWC-124	Pass	Write to Arbitrary Storage Location.	StandardToken.sol	L: 0 C: 0
SWC-125	Pass	Incorrect Inheritance Order.	StandardToken.sol	L: 0 C: 0



ID	Severity	Name	File	location
SWC-126	Pass	Insufficient Gas Griefing.	StandardToken.sol	L: 0 C: 0
SWC-127	Pass	Arbitrary Jump with Function Type Variable.	StandardToken.sol	L: 0 C: 0
SWC-128	Pass	DoS With Block Gas Limit.	StandardToken.sol	L: 0 C: 0
SWC-129	Pass	Typographical Error.	StandardToken.sol	L: 0 C: 0
SWC-130	Pass	Right-To-Left-Override control character (U+202E).	StandardToken.sol	L: 0 C: 0
SWC-131	Pass	Presence of unused variables.	StandardToken.sol	L: 0 C: 0
SWC-132	Pass	Unexpected Ether balance.	StandardToken.sol	L: 0 C: 0
SWC-133	Pass	Hash Collisions with Multiple Variable Length Arguments.	StandardToken.sol	L: 0 C: 0
SWC-134	Pass	Message call with hardcoded gas amount.	StandardToken.sol	L: 0 C: 0
SWC-135	Pass	Code With No Effects (Irrelevant/Dead Code).	StandardToken.sol	L: 0 C: 0
SWC-136	Pass	Unencrypted Private Data On-Chain.	StandardToken.sol	L: 0 C: 0

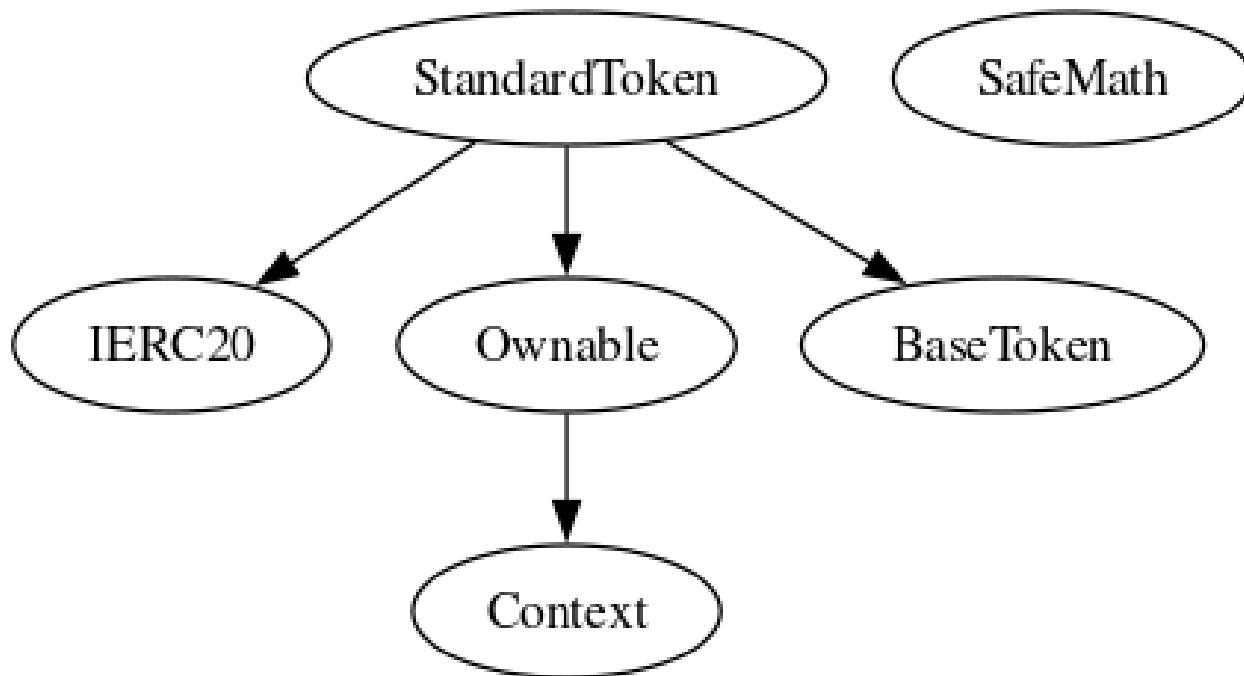
We scan the contract for additional security issues using MYTHX and industry-standard security scanning tools.





# Inheritance

The contract for Bet2Win has the following inheritance structure.



# Social Media Checks

Social Media	URL	Result
Twitter	<a href="https://x.com/Bet2Winbw">https://x.com/Bet2Winbw</a>	Pass
Other		Fail
Website	<a href="http://www.bet2win.space">http://www.bet2win.space</a>	Pass
Telegram	<a href="https://t.me/Bet2WinPortal">https://t.me/Bet2WinPortal</a>	Pass

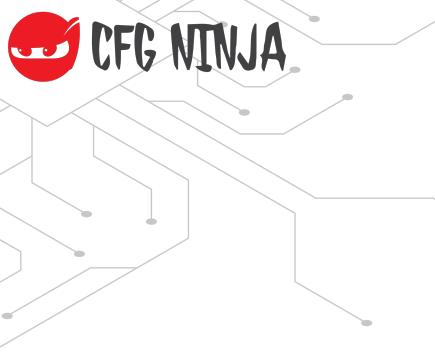
We recommend to have 3 or more social media sources including a completed working websites.

**Social Media Information Notes:**

**Auditor Notes:** undefined

**Project Owner Notes:**





# Audit Result

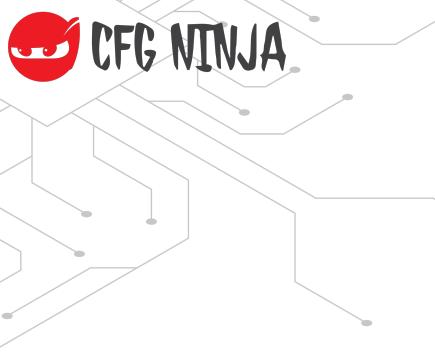
## Final Audit Score

Review	Score
Security Score	94
Auditor Score	84

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:

- Owner can't set max tx amount. ■
- No high-risk Exploits/Vulnerabilities Were Found in the Source Code.

**Auditor Score =84**  
**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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