

Security Assessment

WhaleWorldCup Token
Token

September 5, 2022





Table of Contents

1 Audit Summary

2 Project Overview

- 2.1 Token Summary
- 2.2 Risk Analysis Summary
- 2.3 Main Contract Assessed

3 Smart Contract Risk Checks

- 3.1 Mint Check
- 3.2 Fees Check
- 3.3 Blacklist Check
- 3.4 MaxTx Check
- 3.5 Pause Trade Check
- 4 Contract Ownership
- **5 Liquidity Ownership**
- 6 KYC Check

7 Smart Contract Vulnerability Checks

- 7.1 Smart Contract Vulnerability Details
- 7.2 Smart Contract Inheritance Details
- 7.3 Smart Contract Privileged Functions
- 8 Assessment Results and Notes(Important)
- 9 Social Media Check(Informational)
- 10 Technical Findings Summary
- 11 Disclaimer







Audit Summary

This report has been prepared for WhaleWorldCup Token Token on the Binance Smart Chain 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.







Project Overview

Token Summary

Parameter	Result
Address	0x646a927CAe4be7a2Addb9FB510447DEB0f1BD7f8
Name	WhaleWorldCup Token
Token Tracker	WhaleWorldCup Token (WWC)
Decimals	18
Supply	10,000,000
Platform	Binance Smart Chain
compiler	v0.8.8+commit.dddeac2f
Contract Name	WWC
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://bscscan.com/address/0x646a927cae4be7a2addb9fb51 0447deb0f1bd7f8#code
Payment Tx	0xb350a50a58bd4e3fc8694d105e48e2c5e0ef16f2be37b4fbd dc19b35d35f3fe0







Project Overview

Risk Analysis Summary

Parameter	Result
Buy Tax	0%
Sale Tax	0%
Is honeypot?	Clean
Can edit tax?	No
Is anti whale?	No
Is blacklisted?	No
Is whitelisted?	No
Holders	Clean
Security Score	98/100
Auditor Score	98/100
Confidence Level	Pass

The following quick summary has been added to the project overview, however there are more details about the audit and their results please read every details.







Main Contract Assessed Contract Name

Name	Contract	Live
WhaleWorldCup Token	0x646a927CAe4be7a2Addb9FB510447DEB0f1BD7f8	Yes

TestNet Contract Assessed Contract Name

Name	Contract	Live
WhaleWorldCup Token	0x5cD299094A560978746efd6Af95695d360165DB1	Yes

Solidity Code Provided

SoliD	File Sha-1	FileName
WhaleWorldCup Token	03f81031cd16af9ce4752d5d00c8ea0bd7bb03fd	WhaleWorldCup Token.sol







Mint Check

The Project Owners of WhaleWorldCup Token does not have a mint function in the contract, owner cannot mint tokens after initial deploy

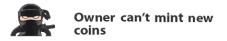
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The Project has a Total Supply of 10,000,000,000 and cannot mint any more than the Max Supply.

Mint Notes:

Auditor Notes: A Mint Function was not found during the code review

Project Owner Notes:











Fees Check

The Project Owners of WhaleWorldCup Token does not have the ability to set fees higher than 25%.

Team May have fees defined, however they dont have the ability to set those fees higher than 25%.

Tax Fee Notes:

Auditor Notes: Contract currently have 0% tax and cannot be modified

Project Owner Notes:.









Blacklist Check

The Project Owners of WhaleWorldCup Token does 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: .









MaxTx Check

The Project Onwers of WhaleWorldCup Token does not has the ability to set max tx amount

The Team allow any investors to swap, transfer or sale their total amount if needed.

MaxTX Notes:

Auditor Notes: '

Project Owner Notes:

Project Has No MaxTX









Pause Trade Check

The Project Owners of WhaleWorldCup Token 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: Not found a value to stop, however there is a start trade.

Project Owner Notes:









Contract Ownership

The contract ownership of WhaleWorldCup Token is not currently renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.

The current owner is the address

0x2ccf6d9a9386ec7e7728e7841879ce9999344bde

which can be viewed from:

HERE

The owner wallet has the power to call the functions displayed on the priviliged functions chart below, if the owner wallet is compromised this privileges could be exploited.

We recommend the team to renounce ownership at the right timing if possible, or gradually migrate to a timelock with governing functionalities in respect of transparency and safety considerations.

We recommend the team to use a Multisignature Wallet if contract is not going to be renounced, this will give the ability to the team to have more control over the contract.







Liquidity Ownership

The token does not have liquidity at the moment of the audit, block 21073956

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 WhaleWorldCup Token is not KYC. .

The owner wallet has the power to call the functions displayed on the priviliged functions chart below, if the owner wallet is compromised this privileges could be exploited.

We recommend the team to renounce ownership at the right timing if possible, or gradually migrate to a timelock with governing functionalities in respect of transparency and safety considerations.

KYC Information Notes:

Auditor Notes: Asked project owner about KYC, Project owner passed KYC with PinkSale.

Project Owner Notes:









Smart Contract Vulnerability Checks

ID	Severity	Name	File	location
SWC-100	Pass	Function Default Visibility	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-101	Pass	Integer Overflow and Underflow.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-102	Pass	Outdated Compiler Version file.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-103	Low	A floating pragma is set.	WhaleWorldCup Token.sol	L: 22 C: 0
SWC-104	Pass	Unchecked Call Return Value.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-105	Pass	Unprotected Ether Withdrawal.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-106	Pass	Unprotected SELFDESTRUCT Instruction	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-107	Pass	Read of persistent state following external call.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-108	Pass	State variable visibility is not set	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-109	Pass	Uninitialized Storage Pointer.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-110	Pass	Assert Violation.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-111	Pass	Use of Deprecated Solidity Functions.	WhaleWorldCup Token.sol	L: 0 C: 0







ID	Severity	Name	File	location
SWC-112	Pass	Delegate Call to Untrusted Callee.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-113	Pass	Multiple calls are executed in the same transaction.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-114	Pass	Transaction Order Dependence.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-115	Pass	Authorization through tx.origin.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-116	Pass	A control flow decision is made based on The block.timestamp environment variable.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-117	Pass	Signature Malleability.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-118	Pass	Incorrect Constructor Name.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-119	Pass	Shadowing State Variables.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-120	Pass	Potential use of block.number as source of randonmness.	WhaleWorldCup Token.sol	L: 537 C: 12,L: 687 C: 24
SWC-121	Pass	Missing Protection against Signature Replay Attacks.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-122	Pass	Lack of Proper Signature Verification.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-123	Pass	Requirement Violation.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-124	Pass	Write to Arbitrary Storage Location.	WhaleWorldCup Token.sol	L: 0 C: 0
SWC-125	Pass	Incorrect Inheritance Order.	WhaleWorldCup Token.sol	L: 0 C: 0







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

We scan the contract for additional security issues using MYTHX and industry standard security scanning tool







Smart Contract Vulnerability Details

SWC-103 - Floating Pragma.

CWE-664: Improper Control of a Resource Through it	ts
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.

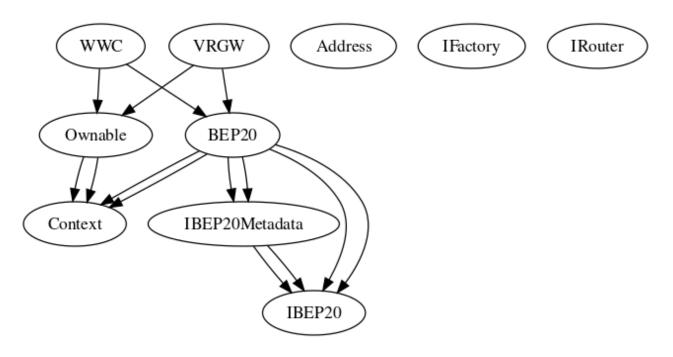






Call Graph and Inheritance

The contract for WhaleWorldCup Token has the following call graph structure









Priviliged Functions (onlyOwner)

Function Name	Parameters	Visibility
renounceOwnership	none	public
transferOwnership	none	public
EnableTrading		external
updateWhitelist	_address (address), state (bool)	external
bulkWhitelist	accounts (address[]),state (bool)	external
rescueBNB	weiAmount (uint256)	external
rescueBSC20	tokenAdd (address), amount (uint256)	external
updateMaxTxLimit		external
burnBSC20		external







Assessment Results

- Owner can't charge fees up to 25%.
- Owner can't set max tx amount.
- Owner can't pause trading.
- No high-risk Exploits/Vulnerabilities Were Found in the Source Code.
- Contract has been reviewed and tested, there are no sign of issues within the contract and it came back clean.
- Contract has been developed by Anoop and follow the coding best practices, we have fully tested the code and its functionalities.

Audit Passed









Social Media Checks

Social Media	URL	Result
Twitter	https://twitter.com/WhaleWorldcup	Pass
Instagram		Fail
Website	https://whaleworldcup.io/	Pass
Telegram	https://t.me/WhaleWorldCupAnnouce	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: No other social media









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.
Informational	errors are often recommendations to improve the style of the code 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	0	0	0
Medium	0	0	0
Minor	0	0	0
Informational	0	0	0
Total	1	1	0







WWC-01 | Potential Sandwich Attacks.

Category	Severity	Location	Status
Security	Medium	WhaleWorldCup Token.sol: 1370,20	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.

Referrences:

What Are Sandwich Attacks in DeFi – and How Can You Avoid Them?.







WWC-02 | Function Visibility Optimization.

Category	Severity	Location	Status
Gas Optimization	 Informational 	WhaleWorldCup Token.sol: 0,0	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
name		public
symbol		public
decimals		public
setTaxes		public
setSellTaxes		public

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

Remediation

We advise that the functions' 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.







Appendix

Finding Categories

Centralization / Privilege

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

Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimalEVM 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 howblock.timestamp works.

Control Flow

Control Flow findings concern the access control imposed on functions, such as owneronly functionsbeing invoke-able by anyone under certain circumstances.

Volatile Code

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

Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to makethe 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 setterfunction.

Coding Best Practices

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







Disclaimer

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